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August 2014 Catalog

# August 2014 - 2015 Catalog

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## Academic Programs

UNO offers the following degrees and major programs:

### Undergraduate Degrees

Bachelor of Arts Majors	College
Anthropology	Liberal Arts
Art (Art History and Studio Art)	Liberal Arts
English	Liberal Arts
Film and Theatre Arts (Film Arts, Theatre Arts and Writing for Production)	Liberal Arts
History	Liberal Arts
International Studies	Liberal Arts
Music Studies	Liberal Arts
Philosophy	Liberal Arts
Political Science	Liberal Arts
Romance Languages (French and Spanish)	Liberal Arts
Sociology	Liberal Arts

**Bachelor of Interdisciplinary Studies**

**Bachelor of Science in Civil Engineering**

**Bachelor of Science in Electrical Engineering**

**Bachelor of Science in Mechanical Engineering**

**Bachelor of Science in Naval Architecture and Marine Engineering**

Bachelor of Science Majors	College
Accounting	Business Administration
Biological Sciences	Sciences
Business Administration	Business Administration
Chemistry	Sciences
Computer Science	Sciences
Earth and Environmental Science	Sciences
Elementary Education	Education
Elementary Education and Mild Moderate Disabilities - Integrated to Merged Approach	Education
Finance	Business Administration
Hotel, Restaurant and Tourism Administration	Business Administration
Human Performance and Health Promotion	Education
Management	Business Administration
Marketing	Business Administration
Mathematics	Sciences
Physics	Sciences
Psychology	Sciences
Urban Studies and Planning	Liberal Arts
Secondary Teaching	Education

## Graduate Degrees

### Master of Arts

- Arts Administration
- English
- History
- Political Science
- Romance Language
- Sociology

### Master of Arts in Teaching

- Curriculum and Instruction
- Special Education

### Master of Business Administration

### Master of Education

- Counselor Education
- Curriculum and Instruction
- Educational Leadership
- Special Education

### Master of Science

- Accounting
- Applied Physics
- Biological Sciences
- Chemistry
- Computer Science
- Engineering
- Engineering Management
- Earth and Environmental Sciences
- Health Care Management
- Hospitality and Tourism
- Mathematics
- Psychology
- Tax Accounting
- Urban Studies

### Master of Science in Engineering Management

### Master of Science in Engineering Science

### Master of Fine Arts

- Creative Writing Workshop
- Film and Theater
- Fine Arts

### Master of Music in Music

### Master of Public Administration

### Master of Urban and Regional Planning

### Doctor of Philosophy

- Chemistry
- Integrative Biology
- Counselor Education
- Curriculum and Instruction
- Educational Administration
- Engineering and Applied Science
- Financial Economics
- Political Science
- Psychology
- Special Education
- Urban Studies

## Pre-professional Programs

UNO has programs designed to provide college training for those students interested in gaining admission to one of the professional schools. Pre-professional programs are offered in the following areas:

- Cardiopulmonary Science
- Dental Hygiene
- Dentistry
- Medical Technology
- Medicine
- Nursing
- Occupational Therapy
- Optometry
- Pharmacy
- Physical Therapy
- Physician's Assistant
- Veterinary Medicine

## Accreditation

The University of New Orleans is accredited by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) to award baccalaureate, master's, and doctoral degrees. SACSCOC is the regional body for the accreditation of degree-granting higher education institutions in the Southern states. It serves as the common denominator of shared values and practices among the diverse institutions in Alabama, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, South Carolina, Tennessee, Texas, Virginia and Latin America and other international sites approved by the Commission on Colleges that award associate, baccalaureate, master's, or doctoral degrees. The Commission also accepts applications from other international institutions of higher education. The mission of SACSCOC is to assure the educational quality and improve the effectiveness of its member institutions.

For questions about the accreditation of the University of New Orleans, to file a third-party comment at the time of the institution's decennial review, or to file a complaint against the institution for alleged non-compliance with a standard or requirement, please contact the Southern Association of Colleges and Schools Commission on Colleges. Normal inquiries about the institution should be addressed directly to the institution and not to the Commission's office.

Contact Information

Southern Association of Colleges and Schools  
Commission on Colleges  
1866 Southern Lane  
Decatur, GA 30033-4097  
Phone: 404-679-4500



2000 Lakeshore Drive  
New Orleans, LA 70148  
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## Administrators

### UNO Administrators

President	Peter J. Fos , Ph.D.
- Interim Provost and Vice President for Academic Affairs	Richard S. Hansen, Ph.D.
- Vice President for Business Affairs	Gregg Lassen, Ph.D.
- Vice President for Student Affairs and Enrollment Management	Brett Kemker, Ph.D.
- Vice President for Research and Economic Development and Executive Director of Graduate School	Kenneth W. Sewell, Ph.D.
- Vice President for Communications, Public Relations and Marketing	Kevin McLin, M.F.A.
- Executive Director of University Advancement	Anthony Gregorio
- Director of Intercollegiate Athletics	Derek Morel, M.S.A.F.M.
- Assistant Athletic Director for Compliance	Jacob Ludwikowski, B.A.
- Director of Internal Audit	Elizabeth Bourgeois, B.A., CIA, CISA

### Academic Affairs

Interim Provost and Vice President for Academic Affairs	Richard S. Hansen, Ph.D.
- Associate Provost and SACS Liaison	William R. Sharpton, Ph.D.
- Associate Vice President for Academic Affairs	Merrill Johnson, Ph.D.
- University Registrar and Director of Institutional Research	Matt Moore, Ed.D.
- College of Business Administration	John A. Williams, Ph.D., Dean
- College of Education and Human Development	Darrell P. Kruger, Ph.D., Dean
- College of Engineering	Norman Whitley, Ph.D., Interim Dean
- College of Liberal Arts	Kevin L. Graves, Ph.D., Interim Dean
- College of Sciences	Steven Johnson, Ph.D., Dean
- Earl K. Long Library	Sharon Mader, Ed.D., Dean
- Interdisciplinary Studies	Elaine Brooks, Ph.D., Director
- Institutional Effectiveness	Leslie Culver, Ph.D., Program Director

-	Online and Non-credit Instruction	Daniel Gonzalez, Ph.D., Associate Director
-	Honors Program	Abu K. Sarwar, Ph.D., Director
-	International Education	Alea M. Cot, M.A., Assistant Vice President
-	International Students and Scholars	Christiana Thomas, M.A., Director

### Student Affairs and Enrollment Management

Vice President for Student Affairs and Enrollment Management		Brett E. Kemker, Ph.D.
-	Business Manager	LaJana Paige, M.B.A
-	Career Services	Martha Barnes, Ed.S., Director
-	Counseling Services	Adrian C. Péré, MSW, LCSW-BACS, Director
-	Disability Services	Amy King, M.Ed., Director
-	Learning Resource Center	Toni Spahn, M.S., Interim Director
-	Student Accountability and Advocacy	Amy King, M.Ed., Director
-	Student Health services	Pamela Rault, Ph.D., Director
-	Student Housing	Mike Brauning, B.S., Director
-	Student Involvement and Leadership	Dale O'Neill, M.A., Director
-	TRIO - Project PASS/ACCESS	Brenda Brown, M.Ed., Director
-	TRIO - Student Support Services	Nora Chapius, M.A., Director
-	TRIO - Upward Bound	Lynette Bates, M.R.E., Director

### Business Affairs

Vice President for Business Affairs		Gregg Lassen, Ph.D.
-	Assistant Vice President for Business Affairs; Budget, Finance & Systems	Tiffany Gilmore-Soublet, M.B.A.
-	Assistant Vice President for Business Affairs; Accounting & Procurement	Michael Dauenhauer, B.S.
-	Assistant Vice President for Human Resource Management	Ranzy P. Montet, B.S.
-	Accounts Payable	Dana Bird, B.S., C.P.A., Manager
-	Bursar	Brett Cassell, M.B.A.
-	General Accounting and Financial Reporting	Debra Alvarez, B.S., Manager
-	Materials, Management and Contracts Administrator	Stephen F. Kolz, B.S., Director
-	Sponsored Programs Accounting	David P. Muscarello, B.S., C.P.A., Director
-	Recreation and Intramural Sports	Margaret V. Royerre, M.S., Director
-	University Computing and Communications	David Dupree, M.Ed., Interim Chief Information Officer
-	Auxiliary Services	Patrick Linn, B.S., Director

### Research and Sponsored Programs

Vice President for Research and Economic Development and Executive Director of Graduate School	Kenneth W. Sewell, Ph.D.
- Executive Director	Carol T. Lunn, M.B.A.

### Training Resources and Assistive Technology Center (TRAC)

TRAC	Naomi Moore, M.U.R.P., Interim Director
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### Office of Technology Management and Commercialization (OTMC)

OTMC	James L. Endler, Facility Security Officer
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### Communications, Marketing and Public Relations

Vice President for Communications, Public Relations and Marketing	Kevin McLin, M.F.A.
- Assistant Vice President for Communications, Marketing and Public Relations	Janene Tate
- Public Relations and Communications	Patricia Murret, Assistant Director
- Marketing	Sarah Bergez, Director
- Public Relations and University Spokesperson	Adam Norris, B.A., M.S., Director



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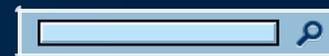
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# Admissions

Admission to the University and to all its programs and operations is open to all persons regardless of race, creed, color, sex, age, marital status, handicap, veterans' status, or national origin who meet the admission requirements and qualifications of the University.

The University requires a non-refundable \$20 application fee of all applicants. The fee is payable when the application is submitted to the Office of Admissions. Application deadlines for each semester (Fall, Spring, and Summer) are published on the Important Dates Calendar maintained by the University Registrar's Office. Applicants should refer to this calendar for applicable dates.

For information and application forms, contact the Enrollment Services, 2000 Lakeshore Drive, New Orleans, Louisiana 70148; or access the University on the World Wide Web at <http://www.uno.edu>.

## Undergraduate Admissions

### Categories of Admission and Procedures

#### High School Early Start Admission

##### High School Early Start

Outstanding high school students may be admitted to the University while still enrolled in high school, if they meet University admission requirements.

#### Dual Enrollment

Immediately following the freshman year in high school, students may be enrolled in University courses that carry corresponding levels of high school credit during the Summer, Fall, or Spring terms, if they meet first year GPA and test score admission requirements. Students may enroll in up to seven hours in the Summer term and nine hours in Fall or Spring terms. Dual Enrollment students receive a reduced rate of tuition. Students interested in participating in this program should contact their high school counselor to determine eligibility and ensure any credits earned at UNO will count for credit at their high school. All university deadlines and requirements are applicable.

#### Early Enrollment for High School Students

Students having the approval of their high school principal may "skip" their senior year of high school and enroll as full-time students at the University. These students may be eligible to receive their high school diploma from their home high school after successfully completing 24 University semester hours of credit.

To be admitted as an Early Enrollment Full-Time Enrollment Student, a prospective student:

1. must have completed the junior year of high school,
2. must be recommended for Early Admission by the high school principal,
3. must have earned a 2.5 average on all high school grades, and

4. must have earned a minimum admission scores for the ACT or PLAN (18 English, 19 Math), SAT or PSAT (450 English, 460 Math) or COMPASS (74 English, 46 Math) tests.

#### **Freshman Admission**

Students who graduate from state-approved high schools must complete the Louisiana Board of Regents Core Curriculum (See Core Curriculum listed below) and require no developmental/remedial courses (ACT of 18 or higher or SAT score of 450 or higher on English, ACT of 19 or higher or SAT score of 460 or higher on Mathematics is non-remedial) AND one of the following:

- ACT composite score of 23 or greater (SAT I Math + Critical Reading combined score of 1060 or greater) OR
- High school cumulative CORE GPA of 2.5 or greater

Out-of-State and Homeschooled students who do not meet the core curriculum must satisfy all items in the above or have a composite ACT score of 26 or greater (SAT I Math + Critical Reading combined score of 1170 or greater) and require no developmental/remedial courses.

Adult Freshmen age 25 and over who are graduates of state approved high schools (or have received their GED) must also show the need for non-developmental coursework as demonstrated by the appropriate testing requirements.

#### **Louisiana Board of Regents**

##### **Core 4 Curriculum (Requirements for High School Applicants)**

Units	Course
English (4 units)	
1	English I
1	English II
1	English III
1	English IV
Math (4 units)	
1	Algebra I or Applied Algebra I or Algebra I-Pt. 2
1	Geometry or Applied Geometry
1	Algebra II
1	Financial Math or Math Essentials or Advanced: Pre-Calculus or Advanced: Functions & Statistics or Pre-Calculus or Calculus or Probability and Statistics or Discrete Math or approved electives
Science (4 units)	
1	Biology
1	Chemistry
2	Physical Science or Integrated Science or Physics I or Physics II or Physics of Technology I or Physics of Technology II or Aerospace Science or Biology II or Chemistry II or Earth Science or Environmental Science or Agriscience II or Anatomy and Physiology or approved elective (including approved IBC-related course)
Social Science (4 units)	
1	Civics or AP American Government + Free Enterprise (1/2 unit each)
1	American History

1	World History or World Geography or Western Civilization or AP European History
1	World History or World Geography or Western Civilization or AP European History or Law Studies or Psychology or Sociology or Civics (second semester, 1/2 unit) or African American Studies or approved IBC-related course (Religion I, II, III, IV for non-public schools)
Foreign Language (2 units)	
2	2 units from same language or 2 Speech courses
Arts (1 unit)	
1	Fine Arts Survey or 1 unit: Art or Dance or Music or Theatre Arts or Applied Arts or approved IBC-related course
19	Total Core Curriculum Units

NOTE: Other courses may be acceptable as substitutes for courses in the core curriculum. Contact LOSFA at [www.osfa.state.la.us](http://www.osfa.state.la.us) for more information on acceptable substitute courses.

All freshman applicants should submit their applications as early as possible in their senior year. Applicants who meet admission requirements will be admitted conditionally as soon as possible after receipt of the application, official test scores, and official high school transcripts. UNO will retrieve transcripts for Louisiana high school graduates from the Louisiana State Transcript System (STS) if available. An official transcript certifying courses, grades and graduation from high school is required before the student can be fully admitted.

Transcripts must be mailed directly from the high school to the UNO Office of Admissions in order to be considered official; ACT/SAT I scores must be sent directly to UNO from the American College Testing Program/Educational Testing Services.

#### **Advanced Standing Examinations**

Students of superior ability and preparation and students who have already obtained a fundamental knowledge of subjects offered by the University may be permitted to take departmental advanced standing examinations in specific courses, which, if passed satisfactorily, will enable the student to receive degree credit. The Advanced Placement tests of the College Board, International Baccalaureate exams taken at the Higher Level, the subject examinations of the College Level Examination Program (CLEP), Dantes, UXCEL, and military coursework also may be used as a basis for allowing advanced standing credit. Details on advanced standing are outlined in the chapter entitled University Regulations. Please note that advanced standing credit earned may not be used for the last 30 hours of degree requirements.

#### **Transfer Admissions**

Those applicants who are now or have been in college should submit applications as early as possible in the semester preceding the date that admission is desired. Eligibility for admission cannot be determined until the application and complete official transcripts from each college and university attended have been received. Applicants should refer to the Important Dates Calendar on the University Registrar's website for application deadlines. Applicants must list on their applications each college and university attended and have transcripts sent from all institutions attended, regardless of whether or not credit was earned. Any student who fails to acknowledge attendance in each college or university in which he or she has been registered is subject to immediate dismissal from the University.

Students enrolled in college at the time applications are submitted should have transcripts sent when they apply for admission, to be followed by the complete final transcript at the close of the semester. The admissions decision is not complete until the final transcript from the institution where the applicant is currently enrolled is received.

All students transferring to UNO must have at least:

- 24 semester hours or more of college level coursework (including completed courses in English and Math) and

- a GPA of 2.25 or higher cumulative GPA as calculated by our Admissions Office.
- Additionally, enrollment at a transfer student's last accredited institution of higher education must not have resulted in an academic/disciplinary suspension.
- If a transfer student has earned fewer than 24 credit hours, they must also meet the freshman admission requirements.

Credits earned at other post-secondary institutions and presented for transfer credit will be evaluated according to four considerations:

1. the educational quality of the institution from which the credit is being transferred;
2. the institution is a member of one of the six regional accrediting agencies;
3. the comparability of the nature, content, or level of credit to that offered by UNO; and
4. the appropriateness and applicability of credit earned to the programs offered by UNO.

The extent to which credits earned in colleges and universities are accepted toward the degree program is determined by the dean of the college in which the student plans to major. If students have previously received a failing grade in 1158 from UNO, they must take and pass English 1158 with a grade of C or better.

Transfer students with less than 24 semester hours of earned transferrable credit must satisfy freshman requirements as well as transfer admission requirements.

Apply by clicking on the following link: <http://www.uno.edu/admissions/apply/transfer/index.aspx>

### Re-entry Admissions

Former UNO undergraduate students who were not enrolled in the regular Fall and Spring semester immediately preceding the semester of desired enrollment must apply for admission according to the deadline published on the Important Dates Calendar maintained on the University Registrar's website. If intervening college work was taken, official transcripts from all institutions attended must be submitted before an admissions decision can be made.

Former students who were on scholastic probation and are readmitted will be continued on scholastic probation regardless of the grade point average earned at the other institution(s).

Former students who left on their first scholastic drop may be readmitted on probation after they sit out the requisite one semester. Students who left on their second scholastic drop may be readmitted on probation after they sit out the requisite two semesters (not including summer). Some students may be required to appeal based upon their quality point deficiency. Those students will be required to submit an appeal letter. Those students will be notified by email upon submission of their new application. If it is determined that the student does not have enough hours left to reach a cumulative 2.0 before graduation, they will not be readmitted. Students who left on their third or more scholastic drop will be required to sit out 6 full semesters (3 years), and will only be admissible on academic renewal or appeal.

### Guest Student Admissions

Transfer students who are enrolled in any accredited college or university and wish to enroll in UNO for one semester [ONLY] must have earned at least a cumulative GPA of 2.0 or higher and must be eligible to return to their home institution. Admission as a guest student will terminate at the end of one semester and does not presuppose acceptance by any college or division of the University of New Orleans during the next regular semester. Students attending on this basis must submit all official university transcripts in which they are currently enrolled stating total number of credit hours previously earned. Enrollment at the last accredited institution of higher education must not have resulted in an academic/disciplinary suspension. Students will be required to seek permission to enroll in all courses by the applicable department(s) offering the desired course(s).

New freshmen entering UNO during the Summer term are classified as Summer-only students even though they plan to attend another university in the Fall. To be eligible, freshmen must meet normal freshmen admission requirements.

### Special Student Admissions

This program is designed for non-degree seeking students who are not currently enrolled in another institution and whose intention is to only enroll in undergraduate courses.

### **Eligibility Requirements for Special Students**

To be eligible for enrollment in undergraduate courses with the Special Student status, prospects must satisfy the following requirements:

1. Never attended college, prospect must meet freshmen admission requirements; or,
2. Attended college, student must be eligible to return to their home institution and have at least at 2.25 GPA. Enrollment at the last accredited institution of higher education must not have resulted in an academic/disciplinary suspension.
3. Prospects must submit all prior transcripts to be considered.
4. International students and veterans planning to attend UNO under one of the public laws governing veterans' educational benefits are not eligible for the special student program.

### **Credits Earned - Special Students**

Credits earned in Special Student status are recorded on the student's permanent academic record. A minimum of 30 semester hours can be earned as a Special Student. After a student earns 30 credit hours, the student must complete the "Change to degree-seeking status" form and meet regular admission requirements in order to continue enrolling at UNO. The form can be found here:

[http://www.uno.edu/admissions/adm\\_documents/general\\_forms/Change\\_to\\_Degree\\_Status\\_Form.pdf](http://www.uno.edu/admissions/adm_documents/general_forms/Change_to_Degree_Status_Form.pdf)

### **Academic Advisement and Continuing Each Semester - Special Students**

Because prior college work is not posted to the student's UNO Transcript, students must contact the department that offers the course to determine course enrollment eligibility. This may include taking necessary placement tests in English, Mathematics, and Foreign Language. All prior transcripts and test scores are added to the student's file and will be available for the college office. To continue each semester, the student must complete a request in the Admissions Office and meet satisfactory academic progress the prior semester.

A Special Student may not petition for academic renewal or permission to take advanced standing examinations. In addition, a Special Student may not receive credit for bypass courses, College Board Advanced Placement Examinations, the College Level Examinations Program, armed services courses, and correspondence courses. Special Students who change to degree status may petition the dean of their college for all of the above.

Special Students are not eligible for financial aid.

### **International Admissions**

Citizens of a foreign country applying to UNO as freshmen or transfer undergraduate students are expected to meet all requirements for admission to the University. Graduates of foreign secondary schools who have completed the equivalent of at least an American high school diploma may apply for admission to UNO. Transfer applicants are considered for admission on the basis of previous college records. The deadline dates for filing applications and submitting complete official records can be found on the Important Dates Calendar maintained on the University Registrar's website at <http://www.uno.edu/registrar/index.aspx>.

Proficiency in the English language is vital to the academic success of international students at UNO. For any applicant graduating from a high school located in a non-English speaking country, admission will be based on the following:

1. A minimum SAT Math score of 460 or ACT Math score of 19
2. A minimum SAT English score of 450 or ACT English score of 18

If the applicant cannot meet the minimum SAT or ACT English scores, they can gain admission by having a minimum 2.75 cumulative GPA as calculated by the Admissions office and one of the following :

1. A minimum score of 79 on the Test of English Foreign Language (TOEFL).
2. A minimum band score of 6.5 on the International English Language Testing System (IELTS).

Upon arrival at UNO, international students who have been accepted with TOEFL or IELTS scores will be required to take the English Department's placement exam and will be placed into the appropriate English course based on this measure.

International students seeking to transfer to UNO from an international two or four-year college admission will be based on the following:

1. The student must have earned at least 24 hours of college-level credits including a college-level math course
2. If the student has earned fewer than 24 credit hours, of college-level credits they must also meet the freshman admission requirements.
3. The student must have earned a minimum GPA of 2.25 on all college work; and,
4. The student must have earned a minimum of a 79 TOEFL or 6.5 IELTS score.

For additional information on the TOEFL, visit <http://www.ets.org/toefl>. For additional information on the IELTS, visit <http://www.ielts.org>.

### Admission to UNO from IELP

The Admissions Office will conditionally admit students to the International English Language Program (IELP). The admission letter will include language that to be fully admitted to UNO, the student will need to meet the following criteria:

1. Prospective students must earn a minimum SAT Math score of 460 or ACT score of 19 or minimum 40 on the Algebra section of Compass test.
2. Prospective students must earn a score of at least LCT 70+/ GVR 70-75+/ WC 75+ on the Michigan Test; and,
3. No Compass scores for English or other measures will be used to satisfy English competency

In certain cases, applicants with superior academic credentials who do not meet the minimum TOEFL requirement may be considered for admission into the Intensive English Language Program before pursuing a degree. All applicants are required to provide evidence of sufficient funds to cover all costs while studying at the University.

It is mandatory that all international students participate in the student medical insurance program. Fees for this insurance will be assessed at registration.

### Golden Ager Program

This program is designed for students aged 65 and older to attend courses at UNO tuition-free. To be eligible for this program, students must complete the application and enrollment process by the posted deadlines published on the Important Dates Calendar maintained on the University Registrar's website. The tuition is waived automatically through the Office of the Bursar. The cost of textbooks and standard university fees are not included in the tuition exemption.

### Credit from other institutions

Through the Office of Academic Affairs, the Registrar and the Director of Admissions share responsibility for the admission of transfer students and the acceptance transfer credit at the University of New Orleans. The University of New Orleans transfer admission policies abide the Board of Regents Policy, the Undergraduate Catalog the Graduate Catalog, and posted on the Registrar's website BOR Transfer Policy.

#### **Undergraduate Admissions:**

An undergraduate transfer applicant should request each college or university he or she has attended to send a transcript to the Office of Admissions. Upon receipt of all transcripts, the previously earned credit is reviewed and a Cumulative GPA is determined for purposes of admission. Once admission has been determined, those credits are then evaluated for application toward those courses making up the degreed

program of study.

#### Office of the Registrar:

Courses evaluated by The University of New Orleans for credit earned from regionally accredited institutions will carry the grade earned at the institution where the courses were taken if the grading system used is comparable to UNO's grading system. However, credits earned at foreign colleges and universities will carry the grade of "P". Technical and vocational credits are not accepted, credits for varsity sports, or credits from non-accredited institutions are not accepted. Transfer students should become familiar with sections of this Catalog concerning the grading system, course repeat policy, and other academic regulations.

The extent to which any transfer courses may be applied toward a degree at UNO is determined by the Academic Dean of each College. A transfer student may complete requirements for graduation in the UNO Catalog in effect at the time of initial enrollment unless the student elects to change to another curriculum or there is a break of one semester or more in attendance at UNO. If there is a break of enrollment greater than one term (excluding Summer), the student is subject to the Catalog in effect when re-entering. Students who change their Major will be subject to the Catalog in effect when the change of Major occurs.

Students who wish to transfer credits to UNO which were earned in a nontraditional manner (i.e., CLEP Subject or General Examinations, Advanced Placement, or Departmental Examinations), will have these evaluated by the Office of Admissions, through the Office of Academic Affairs, will be granted for Departmental Examinations and CLEP Examinations if the course(s) are listed on the student's official transcript with a passing grade or the equivalent, and are within the policies for credit at the University of New Orleans. Advanced placement credit will be given in areas in which UNO normally grants such credit as shown elsewhere in this Catalog.

Transfer students who have question(s) concerning their transfer evaluation may request a review of the evaluation by their academic dean, their department head, the Director of Admissions, and/or the head(s) of the department in which the course(s) are offered at UNO. Requests must be made in writing to the Director of Admissions and must list the specific course(s) in question. The student may be required to furnish course descriptions and may be required to appear before the appropriate college or department personnel.

In order to facilitate a more efficient transfer of courses among public colleges and universities, the Louisiana Board of Regents has established a Master Course Articulation Matrix. This matrix indicates transfer equivalences of courses among Louisiana's public college and universities, and may be accessed through the Board of Regents' webpage at <http://regents.la.gov>. It remains, however, the prerogative of the receiving institution as to whether a course will count toward a particular Major, whether a particular grade is required, or whether the course will satisfy general education requirements. Students should therefore always contact UNO prior to transferring courses.

#### Community or Junior College Transfer Credits

All academic hours earned at a community or junior college will be posted on the UNO transcript upon the student's transfer. However, the maximum number of hours transferable from a community or junior college for degree credit is sixty. No credit earned at a junior college may be used for credit at the 3000 or 4000 course level.



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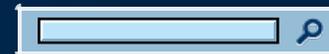
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# Interdisciplinary Studies

## Student Learning Outcomes

### Interdisciplinary Studies

#### Bachelor in Interdisciplinary Studies

1. Interdisciplinary Studies (IDS) majors learn how to integrate ideas across disciplines and incorporate distinct perspectives in their learning processes.
2. IDS students will create a Review of Knowledge (ROK) from which they will create a reflection paper for the purpose of integrating disparate fields of study from their Integrative Learning Plan (ILP) and demonstrate an understanding of integrative learning.
3. IDS students will analyze connections to their ILP disciplines based on the Integrative Learning Value Rubric adapted from the Association of American Colleges and Universities.
4. IDS students will learn how to apply their connections across disciplines to their real-world experiences.
5. IDS students will reflect on their journey through higher education as aware learners using integrated communication.
6. IDS students will complete their degree in Interdisciplinary Studies with an understanding of integrative learning as it relates to the attainment of educational and professional opportunities.

## Bachelor of Interdisciplinary Studies Degree Program

The Bachelor of Interdisciplinary Studies is a unique and rigorous degree program administered by the Office of Academic Affairs at The University of New Orleans. The program provides versatility for students seeking to design an academic plan of coherent concentrations through the process of integrative learning. Interdisciplinary Studies provides students with a well-developed understanding of an Integrative Learning Plan that encompasses a minimum individualized Program of Study. Students develop a learning experience that helps meet individual and professional goals while balancing work and life responsibilities with educational opportunities. To meet the diverse social, cultural and educational needs of students, IDS offers a comprehensive program utilizing both on-campus and off-campus credit opportunities.

Specific requirements for the degree are:

1. General Education Component
  - a. Completion of English 1157 and 1158 or 1159 with a grade of C or better.
  - b. Three hours of literature from any department.
  - c. Six hours of mathematics numbered 1000 or above. <sup>1</sup>
  - d. Nine hours of science to include a six hour sequence of one science and three hours of another. One of the sciences must be biology and the other one must be Chemistry, Earth and Environmental Sciences, or Physics.
  - e. Six hours of humanities, to include at least two different subject areas and at least one course above the freshman level. <sup>2</sup>
  - f. Six hours of social sciences, to include at least two different subject areas and at least one course above the freshman level. <sup>3</sup>

- g. Three hours of art. <sup>4</sup>
- 2. IDS 1001 Introduction to Interdisciplinary Studies. <sup>5</sup>
- 3. Integrative Learning Plan: Completion of an interdisciplinary component, representing a clearly defined focus of studies, with a minimum cumulative grade point average of 2.25. The component will consist of at least two for a combined total of 36 hours. A minimum of 21 of the 36 hours must be completed with course work at the 3000-4999 level. At least half of the ILP (18-credit hours) to be completed after enrolling in the IDS program. <sup>6</sup>
- 4. IDS 3091 Interdisciplinary Studies Capstone. <sup>7</sup>
- 5. Single-Subject Limitation: A maximum of 30 hours of course work in any one subject can be counted toward credit for the degree. For this purpose, all course work offered in the College of Business Administration, the College of Education and Human Development and the College of Engineering will be regarded as a single subject.
- 6. Completion of a minimum of 45 hours of courses numbered 3000 or above, 70% of which will be in the ILP, with a grade point average of 2.0 (C) or better.
- 7. Completion of a minimum of 120 hours of course work in courses numbered 1000 and above, with a grade point average of 2.0 (C) or better.
- 8. No more than one-half the semester hours required for the completion of the IDS degree may be transferred from a community college.
- 9. The last 30 hours of coursework must be completed in degree residency while enrolled with Interdisciplinary Studies. All hours must apply toward the major.
- 10. The University of New Orleans is in full compliance with Louisiana Act 356.

**Curriculum in Interdisciplinary Studies**  
**General Education Course Requirements**

General Education Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
English		BIOS or Physical Science <sup>3</sup>	6
ENGL 1157	3	Humanities	
ENGL 1158 or 1159 <sup>1</sup>	3	ENGL Literature	3
Mathematics		Humanities Elective	6
MATH 1031, 1115, 1125 or higher	3	Social Sciences	
MATH 1032, 1116, 1126 or higher	3	Social Sciences elective <sup>2</sup>	6
Science		Arts	
BIOS <sup>3</sup>	3	Arts elective <sup>4</sup>	3
		Total	39

Other Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
Electives at 3000-4999 level	6	ILP requisites or electives <sup>5</sup>	35
IDS 1001	1		
		Total	42

**Course Requirements for Major**

Course Name/ #	Credit Hours	Course Name/#	Credit Hours
IDS 4091	3	Integrative Learning Plan (ILP) <sup>6</sup>	36
		Total	39

Total Credit Hours Required	Credit Hours
	120

1. "C" or better required
2. Select from ECON, GEOG, POLI, PSYC or SOC. 3 hours must be 2000 level course.
3. 6 hour sequence in one science. Select from BIOS, CHEM, EES, PHYS. 3 hours must be BIOS.
4. FTA (theatre/dance/film related course, FA or MUS)
5. ILP is unique integrated learning plan of personal and professional interest to student. ILP developed with advising.
6. Unique ILP of personal and professional interest to student. Minimum of two disciplines in ILP with minimum of 12 credit hours in two disciplines.

**Recommended Four-Year Plan of Study**

**Division of Interdisciplinary Studies**

**Bachelor of Interdisciplinary Studies in Interdisciplinary Studies**

Four Year Plan of Study			
First Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
IDS 1001	1	ENGL 1158 or 1159	3
UNIV 1001	1	MATH 1032/1125	3
ENGL 1157	3	Social Science	3
MATH 1031/1115	3	Humanities	3
Arts (FA, MUS, FTA)	3	Natural Science	3
Humanities	3		
Total Hours	14	Total Hours	15

Second Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ENGL 2xxx (literature)	3	Natural Science	3
Natural Science	3	Elective/ILP requisite	3
Social Science	3	Elective/ILP requisite	3
Elective/ILP requisite	3	Elective/ILP requisite	3
Elective/ILP requisite	3	Elective/ILP requisite	3

Total Hours	15	Total Hours	15
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Third Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
Elective/ILP requisite	3	ILP @ 3000-4999	3
ILP @3000-4999	3	ILP @ 3000-4999	3
ILP @3000-4999	3	ILP @ 3000-4999	3
ILP @3000-4999	3	ILP @ 3000-4999	3
Elective	3	Elective	3
<b>Total Hours</b>	<b>15</b>	<b>Total Hours</b>	<b>15</b>

Fourth Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ILP @ 3000-4999	3	ILP @ 3000-4999	3
ILP @ 3000-4999	3	ILP @ 3000-4999	3
ILP @ 3000-4999	3	Elective @ 3000-4999	3
Elective @ 3000-4999	3	Elective	3
IDS 4091	3	Elective	3
		Elective	2
<b>Total Hours</b>	<b>15</b>	<b>Total Hours</b>	<b>17</b>
<b>Total Degree Hours</b>			<b>121</b>

Unique Integrative Learning Plan (ILP) is developed through advising with IDS staff. Electives and ILP requisites are selected to support the student's ILP, as well as their personal and professional interests.

### Honors in Interdisciplinary Studies

Students wishing to earn departmental honors in any Major should contact the Director of the University Honors Program for guidance. Interdisciplinary Studies students should ordinarily declare their intent to complete the IDS degree with honors when they initially submit their integrative learning plan (ILP) for departmental approval.

IDS majors who wish to graduate with honors must meet the following requirements:

1. Earn a cumulative grade point average of at least 3.5 within the ILP, and an cumulative grade point average of at least 3.25;
2. Successfully complete a Senior Honors thesis (directly related to the ILP title) which includes earning six hours of Arts and Sciences 3999 and an oral defense. Students must arrange for a faculty member from the ILP component, with approval of the IDS Director or their representative, to direct the thesis. The thesis is to be defended orally before a committee composed of the thesis director, a representative of the IDS department, and a representative of the honors program.

### UL Organizational Leadership Degree Program (60-hour completer program with 5 terms per academic year)

UNO Concentration- Cultural and Arts Institutions

Concentration or Focus Area Required courses will be taken by students in years 3 and 4 (18 hours)

AADM 3300 Basic Overview of Theatre for Arts Administrators	3 Cr.
AADM 3301 Basic Overview of Visual Arts for Arts Administrators	3 Cr.
AADM 3302 Basic Overview of Music for Arts Administrators	3 Cr.
AADM 4300 Basic Concepts of Development for Arts Administrators	3 Cr.
AADM 4302 Basics of Arts Marketing	3 Cr.
AADM 4310 Cultural and Arts Institutions Capstone / Decision Making for Arts Managers	3 Cr.

Concentration or Focus Area Electives will be taken by students in years 3 and 4 (12 hours)

AADM 4303 Technology for Arts Administrators	3 cr.
AADM 4304 Economic Context of the Arts	3 cr.
AADM 4305 Arts and the Law	3 cr.
ANTH 3750 Food and Culture	3 cr.
ENGL 4043 New Orleans Literature	3 cr.
SOC 4150 (prerequisite of SOC 1051) Sociology of Popular Culture	3 cr.
GEOG 3190 Special Topics in Regional Geography	3 cr.
Social Science/ Humanities/Arts at 3000-4000 level	6 cr.

Organizational Leadership Core Courses taught across the consortium of nine UL campuses will be taken by students in years 3 and 4 (30 hours)

ORGL 3000- Intro to Organizational Leadership Concepts and Principles	3 cr.
ORGL 3110 Professional Writing	3 cr.
ORGL 3140 Diversity and Intercultural Understanding in a Global context	3 cr.
ORGL 3170 Concepts and Technologies of Organizational Communication	3 cr.
ORGL 3210 Principles of Team Leadership in Project Management	3 cr.
ORGL 3240 Quantitative and Qualitative Analysis	3 cr.
ORGL 3270 Laws and Ethics Applied to Organizations	3 cr.
ORGL 3340 Critical Thinking and Analytics	3 cr.
ORGL 3350 Issues in Organizational Effectiveness	3 cr.
ORGL 3370 Strategic Planning Within Organizational Cultures	3 cr.



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# Campus

## Academic Programs, Services, Conference Center and Instructional Units

### Reserve Officers Training Corps (ROTC) Programs

The Reserve Officers Training Corps (ROTC) programs are an important means for the education of military officers and are offered as an option to all interested UNO students. Through these ROTC programs, the student may earn appointment as a commissioned officer while earning his or her degree. Hours of ROTC credit may be counted toward graduation in accordance with policies and programs of the individual academic departments of UNO.

#### Air Force ROTC

AFROTC is a nationwide program that allows students to pursue commissions (become officers) in the United States Air Force (USAF) while simultaneously attending college. AFROTC classes are held on college campuses throughout the United States and Puerto Rico; students can register through normal course registration processes.

AFROTC consists of four years of Aerospace Studies classes (Foundations of the USAF, Evolution of USAF and Space Power, Air Force Leadership Studies, and National Security Affairs/Preparation for Active Duty), and a corresponding Leadership Laboratory for each year (where students apply leadership skills, demonstrate command and effective communication, develop physical fitness, and practice military customs and courtesies).

College students enrolled in the AFROTC program (known as "cadets") who successfully complete both AFROTC training and college degree requirements will graduate and simultaneously commission as Second Lieutenants in the Active Duty Air Force.

The AFROTC program is currently offered at Tulane University, but they have a crosstown agreement that allows our students to enroll in AFROTC and become full-fledged cadet participants. For more information on AFROTC course descriptions, please review [http://catalog.tulane.edu/preview\\_program.php?catoid=41&pooid=3461](http://catalog.tulane.edu/preview_program.php?catoid=41&pooid=3461) or <http://tulane.edu/det320/>, for more information on the AFROTC program.

The Air Force offers excellent scholarship opportunities in a wide variety of academic majors. For additional information or to check scholarship eligibility, contact AFROTC Detachment 320, Tulane University, at (504) 865-5394, [afrotc@tulane.edu](mailto:afrotc@tulane.edu), or visit [www.afrotc.com](http://www.afrotc.com).

#### Army ROTC

Army Reserve Officers Training Corps (ROTC) is a comprehensive program of studies through which a student can qualify to be commissioned as an officer in the United States Army, the National Guard, or the United States Army Reserve. Students learn leadership and management skills that will help in any profession in the civilian world. The Army ROTC program consists of a two-year Basic Course, which is open to freshmen and sophomores only, and a two-year Advanced Course. Non-scholarship students participating in the first two years of ROTC do not incur an obligation to the U.S. Army. A variety of Army ROTC

scholarships are offered. These provide tuition assistance, a flat rate for textbooks per semester of \$450, and a per month stipend (\$300-freshmen \$350-sophomores,- \$450 juniors, \$500 seniors, up to 10 months per year). Uniforms and military science textbooks are issued without cost to students. Scholarship students are also paid for the advanced leadership camp they must attend before commissioning.

Summer training is available for outstanding cadets. Potential training opportunities include Basic Airborne School, Air Assault School, Mountain Warfare School, and others.

Admission to ROTC is conditional on meeting academic, physical, and age requirements (30 or younger for scholarship and 33 or younger for non-scholarship) as well as the approval of the Professor of Military Science. Physical training is an integral part of the ROTC program. Future Army Officers are held to high standards of physical fitness and appearance.

To be commissioned as an officer, a student must complete either the regular four-year program, a three-year program (whereby the Basic Course is compressed into one year), or a two-year program (requiring completion of the summer ROTC basic camp giving the student credit for the Basic Course). Advanced placement for ROTC training may be given to veterans and to students with previous ROTC experience. In addition to these requirements a student must complete at least one course in the area of military history. That course must be approved by the Professor of Military Science. A student's length of commitment to the military will depend on whether they serve on active duty or in the national guard or reserve, as well as the whether the student will receive a scholarship. Contact Army ROTC at Tulane University, Army ROTC, 200 Broadway, Suite 132, New Orleans, LA 70118, 504- 865-5594 or 1-800-777-ARMY and by email at <mailto:armyrotc@tulane.edu>

### Navy ROTC

The University of New Orleans offers the Naval Reserve Officers Training Corps (NROTC) through a cross-enrollment agreement with the NROTC Unit at Tulane University. There are three general programs through which students can qualify for commissions in the naval service: the U.S. Naval Academy, the NROTC Navy or Marine option programs, and direct accession through Officer Candidate School. The NROTC program offers students the opportunity to earn a commission in the Navy or Marine Corps through the four-year, three-year, and two-year scholarship programs, and through the NROTC College Program. Students matriculating at the University of New Orleans who have not already been awarded a NROTC scholarship may participate in the NROTC College Program and compete for a three-year scholarship. These students are selected from applicants each year by the Professor of Naval Science.

NROTC scholarship program students are selected annually on a nationwide competitive basis. They receive four-year scholarships that include full tuition, university fees, uniforms, textbooks, and a \$200 per month subsistence stipend. Scholarship students participate in paid summer training periods and receive commissions in the Navy or Marine Corps Reserve as Ensigns or Second Lieutenants upon graduation. They have a minimum four-year active duty obligation after commissioning, followed by four years in the inactive reserves.

NROTC college program students are selected from local applicants each year by the Professor of Naval Science. Students may apply to participate in the college program any time during their freshman year. They participate in a four-year naval science program with one paid summer training period (between junior and senior years) and receive commissions in the Navy or Marine Corps Reserve upon graduation. They incur a minimum three-year active duty obligation, followed by five years in the inactive reserves. College program students are furnished uniforms and naval science textbooks and a subsistence stipend of \$200 per month during their junior and senior years. Additionally, four-year college program students may earn a three-year or two-year NROTC scholarship.

NROTC two-year college scholarship program participants are selected from local undergraduate applicants. To apply, students should contact the NROTC unit on campus no later than the middle of the first semester of the sophomore year or the first semester of the third year if in a five-year program. Applicants who are qualified and accepted attend a six-week Naval Science Institute at Newport, Rhode Island, during the summer prior to entering the program. Travel expenses are paid to and from the institute, and candidates receive approximately \$500 in salary, plus meals and lodging during the training period. Upon successful completion of the Naval Science Institute, the students are enrolled in the NROTC program in the fall. Students then receive full tuition scholarships plus \$150 per month in subsistence for the remaining two

years of college. Active duty obligations are a minimum of four years of active duty followed by four years in the inactive reserves.

Those students who desire a Navy or Marine Corps commission but do not participate in NROTC programs may apply for the direct accession program that leads to a commission upon completion of degree requirements and Officer Candidate School or Aviation Officer Candidate School.

Requests for additional information should be directed to the Tulane NROTC unit at (504) 865-5104 or [navypns@tulane.edu](mailto:navypns@tulane.edu).

### Cooperative Education

Cooperative education is a federal program which integrates students' academic study at the bachelor's, master's, and doctoral level with paid, career related work experiences. The program bridges the gap between the classroom experience and the business world at large. The term "cooperative education" (co-op) reflects the relationship between the educational institution and the employer, both of which provide students with a complete and meaningful education. It should not be confused with other work experiences such as internships, extensionships, or practicums. Co-op is unique because it is a structured program, has specific work schedules, and must include paid work experience related to the student's major field of study.

Students are accepted into the program by meeting certain requirements. Undergraduate students must be full-time, have successfully completed 30 credit hours, have an overall grade point average of 2.5, have a declared major, and be able to commit to the co-op program for at least two semesters. Graduate students must be full-time, have an overall grade point average of at least 3.0, be enrolled in the graduate school, and be able to commit to the co-op program for at least two semesters. Once a student is determined eligible, a match is made based on student career goals and employer needs. Employers are encouraged to interview potential candidates and make decisions based on students' goals and the type of work experience provided. Placement in the co-op program is not guaranteed; therefore, students are encouraged to interview with many different employers before accepting an offer.

Students will work one of two co-op schedules: parallel or alternating. On the parallel schedule a student works between 15 and 30 hours per week, and attends school full time. On the alternating schedule a student alternates semesters (including summers) of full-time study with semesters of full-time work. Work eligibility is based on employer evaluation and co-op coordinator decisions. The College overseeing the experience reserves the right to remove a student from the program at any time.

Once students are selected to work with a participating co-op employer, they are required to register for the appropriate co-op class. Though this class does not carry any university credit, it is an important part of the program. The addition of this class to a student's transcript is an immediate indicator to potential employers that the applicant has performed relevant work in his or her chosen field of study. For more information, contact Career Services at 504-280-6225, or visit <http://www.career.uno.edu/>.

### The University of New Orleans Center for the Book

The mission of the University of New Orleans Center for the Book is to amplify the intellectual culture and influence of the University, supporting the goals of UNO as both a research institution and an urban university by publishing and disseminating scholarship and works of literature.

The Center for the Book works to publish books around which foster intellectual conversations, highlighting the scholarship and literature of the university and the region. In partnership with The Ogden Museum of Southern Art, The Neighborhood Story Project, and the National Jazz Historical Park, the UNO Center for the Book is planning to release commercially viable and intellectually engaging books. The UNO Center for the Book is supported by the University of New Orleans Foundation. For more information, contact [unopress@uno.edu](mailto:unopress@uno.edu) or visit <http://unopress.org>.

### National Student Exchange

The University is a member of National Student Exchange (NSE) which provides opportunities for students to study for up to one calendar year at another NSE member college or university with non-resident fees waived. With nearly 190 universities from which to choose, students should be able to find a campus with just the right combination of courses, facilities, and environment to meet personal and academic needs and interests. NSE

extends beyond the borders of the United States to include U.S. territories as well as Canadian provinces. Students must be at least sophomore level (30 credit hours) with a minimum 2.5 GPA at the time of the exchange. Students meet with their UNO advisors prior to the exchange to assure that all credit completed while on exchange will transfer toward their UNO degree program. Information and applications for the exchange are available in Room 124 of the Bicentennial Education Center. Additional information concerning the NSE Program and all partner universities may be obtained at <http://www.nse.org>.

### Global UNO Jefferson Campus

The global UNO Jefferson Campus, located in the heart of Metairie at 3330 North Causeway Boulevard, is UNO's off-campus center in Jefferson Parish. A variety of credit classes in business, education, science, and the liberal arts are offered at this location. Video linkages with the main campus allow students to enroll in live courses offered on the Lakefront Campus and viewed simultaneously at the Jefferson Campus.

The Jefferson Campus is also used for meetings and conference services. The 21 plus spacious classrooms and conference areas are available for seminars and workshops for the UNO community, outside organizations, and non-profit community groups. Easy access and convenient parking make the Jefferson Campus a practical educational asset to the Metairie area.

### UNO on the Northshore

UNO conducts classes at the John C. Stennis Space Center in Hancock County, Mississippi. UNO is affiliated with the Stennis Center for Higher Learning which facilitates undergraduate and graduate education. As part of the Center, UNO and Mississippi institutions of higher education offer a variety of curricula in science, engineering, social science, business, and industrial technologies. The UNO office at Stennis coordinates educational courses for students and advises those seeking graduate and undergraduate degrees. Course work for the master's degree in applied physics, computer science, engineering, mathematics, earth and environmental sciences, and engineering management are offered at Stennis. Also, a Ph.D. in Engineering and Applied Science is available.

### Division of International Education

The mission of the Division of International Education is to assist the University in its continuing efforts to enlarge its global presence, and to contribute to global understanding by developing and supporting opportunities worldwide for students, faculty, staff, and the general public. The Division promotes summer study abroad, manages international student exchange, eases entry of international students into the University, serves international students and scholars, and manages low-residency Study Abroad sites. The Division is the home to the Office of International Study Programs, the International Student Exchange Programs, the Office of International Students and Scholars, and the Intensive English Language Program. Additional information can be obtained at <http://inst.uno.edu> or by contacting <mailto:isp@uno.edu> or 504-280-7116.

### The Office of International Study Programs

This office currently offers 8 Programs of Study each summer in seven different countries. The International Summer School in Innsbruck, Austria is UNO's flagship program. In operation since 1976, this program annually enrolls 250 students from colleges and universities throughout the United States along with 50 guest students from the University of Innsbruck. Offering more than 50 courses, all taught in English in a multitude of disciplines, this program is one of the largest American summer schools abroad and enjoys a reputation as one of the finest in Europe. In addition to Innsbruck, opportunities are offered in Costa Rica, the Czech Republic, France, Italy, Japan and Ireland. Summer programs regularly enroll both college students and adults. Each program has a distinct personality. Program durations range from four to six weeks and accommodations range from home-stays, to dormitories, to hotels. For example, the program in Ireland is designed for writers, while the program in Prague, Czech Republic has a heavy emphasis on photography and the arts. The program in Costa Rica offers home-stays, Spanish language, and other classes that take advantage of the rich landscape and bio-diversity of Central America.

The office also administers the Academic Year Abroad Program (AYA) at the University of Innsbruck. Students are offered intensive study in the German language and Central European history, economics, and politics in a spectacular Alpine setting. AYA students are served by a resident academic director and take part in numerous activities and field trips throughout their course of study. Additional information may be obtained at <http://inst.uno.edu> or by contacting [isp@uno.edu](mailto:isp@uno.edu) or 504-280-7116.

### International Student Exchange Programs

The International Student Exchange Programs (ISEP) administers bilateral student exchange agreements with universities in Australia, Austria, Brazil, Costa Rica, the Czech Republic, England, France, Germany, Japan, the Netherlands, Norway, Spain and Turkey. Each year, a number of UNO students take part in exchanges on a semester or yearly basis. Additional information may be obtained at <http://inst.uno.edu/exchange>, or by contacting [isep@uno.edu](mailto:isep@uno.edu) or 504-280-6388.

### The Office of International Students and Scholars

The University of New Orleans currently hosts around 750 international students, faculty, and staff from about 90 countries. The Office of International Students and Scholars provides comprehensive immigration advising, programming, and support services to all international students, staff and faculty and their dependents. The Office works with faculty and administrators to build friendship agreements with foreign universities, and we assist international student organizations in planning programs such as International Night and other cultural activities. Additional information may be obtained by visiting <http://oiss.uno.edu> or contacting [oiss@uno.edu](mailto:oiss@uno.edu) or 504-280-6021.

### The Intensive English Language Program

The Intensive English Language Program (IELP) is a full-time, non-credit, pre-academic program which fosters cross-cultural exchange by providing English as a Second Language (ESL) instruction to both international and U.S. resident, non-English speaking students in preparation for study at UNO and other universities and colleges in the United States. IELP offers five 8-week sessions year-round with 20 hours of classroom instruction each week. Admission into the IELP does not guarantee admission to UNO; however, the IELP is designed to provide a transition into the regular university curriculum upon successful exit from the program of intensive study. The IELP issues an I-20 visa document to eligible nationals who are admitted. Tuition and fees include classroom instruction, orientation, special events and field trips, and access to most campus facilities. Additional information may be obtained by visiting <http://ielp.uno.edu>, or by contacting [ielp@uno.edu](mailto:ielp@uno.edu) or 504-280-5530

### Academic Common Market

The University of New Orleans is a participant in the Academic Common Market. A current list of applicable programs listed in the Academic Common Market Inventory can be found at <http://www.sreb.org>. Additional information may be obtained by visiting [http://www.sreb.org/page/1304/academic\\_common\\_market.html](http://www.sreb.org/page/1304/academic_common_market.html)

### University Library

The Earl K. Long Library, situated in the heart of the campus, provides a wide array of resources and services to support the learning and research needs of the campus community. The four story building houses collections, group and individual study spaces, electronic classrooms, and computer facilities. Over 100 computers are available in the 1st Floor Learning Commons, along with research and technical assistance. Additional computer workstations are available on the 2nd and 3rd floors. Students may borrow a laptop from the Circulation Desk or bring their own to access the Library's wireless network. The Library provides a variety of learning environments, including collaborative, quiet, and silent study spaces for the UNO community and an electronic classroom designed to encourage active learning. The first floor also houses a coffee shop and the Privateer Enrollment Center (PEC), which addresses enrollment and student service needs in one place. The Women's Center and the Honors Program are also housed in the Library.

The Library's extensive collections and research tools provide in-depth support for faculty and student research in the Library or from any computer 24/7. The automated library system is part of LOUIS, the Louisiana Library Network consortium, and provides access to the holdings of 44 academic libraries around the state. The Library maintains thousands of current print and electronic subscriptions, more than 70,000 electronic books, and a rich array of research databases in all disciplines, with state-of-the-art discovery tools that provide intuitive access to resources both in and outside the library. The Library also contributes digital collections of library owned materials to the award-winning Louisiana Digital Library and showcases faculty and student research at <http://scholarworks.uno.edu>.

The Library is a U.S. Federal Documents Depository and receives approximately 90% of federal government publications, most of which can be checked out by UNO students and faculty. The Louisiana and Special

Collections Department contains specialized materials related to Louisiana and New Orleans, as well as original archive and manuscript collections, rare books, the UNO Authors Collection, and original copies of all of the university's theses and dissertations. The Multimedia Collection provides material in non-print formats such as microfilm and microfiche, videos, DVDs, compact disks, audiocassettes, and even vinyl recordings. The UNO Student Government funds a collection of popular movies on DVD available for student check-out.

When the Library does not own materials needed by students and faculty, they can be obtained from libraries around the state or around the world through the Interlibrary Loan Service. The collection is also enhanced through reciprocal borrowing, whereby graduate students and faculty can apply for a LALINC card to borrow materials directly from other academic libraries in Louisiana.

Reference and research assistance is available in person, by phone, and through the Library's website via email, chat, and other social media applications. Subject-specific research help is available through the Library's LibGuides interface at <http://libguides.uno.edu>. Students are encouraged to make appointments with librarians for in-depth personal research consultations. Faculty can request library instruction sessions tailored to their course content to improve students' information literacy competencies and disciplinary research skills. Librarians are also available to consult with students and faculty about copyright, open access, and other scholarly communication issues.

The Library's website, at <http://library.uno.edu>, provides further information and links to library resources and services and is accessible 24 hours per day. The Library may be reached by telephone at 504-280-6355.

## Office of Research and Sponsored Programs

The role of the university is to make a contribution to society in myriad ways in which the academy is uniquely qualified, such as:

- Fundamental research to discover and understand our universe;
- Creative endeavors which frame our consciousness and underscore our humanity;
- Inventing technology in partnership with the private sector; and
- Partnerships with our communities to enhance them economically, socially, politically, and educationally.

Within the University of New Orleans, the Office of Research and Sponsored Programs (ORSP) strives to further these goals in several ways. ORSP has both a compliance monitoring role as well as a service role to assist faculty in their acquisition of external funds that further academic pursuits. The compliance role embodies the traditional components of academic research which guarantee its higher level credibility; proper ethics and protection of human subjects; proper animal care and use; scientific integrity; financial integrity; and avoidance of conflicts of interest. The service component of ORSP entails more of a partnership with the faculty in furthering their various research agendas. Some of those components include: providing leadership to small or large groups of faculty on projects requiring partnership with outside resources, assistance in identifying funding sources, announcement of special competitions, assistance and advice in proposal preparation, proposal submission and dealing with the non-financial aspects once an award is secured. All of these services are provided to insure that faculty has an overall positive experience in their pursuit of external funding. Thus, the ORSP provides a partnership role both externally and internally to the University, in numerous ways, all toward the common goals of furthering UNO's overall research agenda and development of a wide array of sponsored programs. Please call 504-280-6836 or email <mailto:orsp@uno.edu> for more information.

### Office of Technology Management and Commercialization

Researchers and employees at the University of New Orleans develop discoveries that are significant to academia, the business community and the public. Much of the knowledge developed is disseminated through publications and papers. However, before any public disclosure of your idea or invention is made, it must be protected if it has possible commercial value. Otherwise, any income from your idea or invention cannot be assured.

Please note that in accordance with the UNO policy (AP 20.05), you are required to report inventions, discoveries, and other developments having possible commercial value. Please do not hesitate to contact OTMC if you have any questions. Please call 504-280-3943 or email <mailto:otmc@uno.edu> for more information, or visit: <http://www.uno.edu/otmc> .

## Training Resources and Assistive-Technology Center

The University of New Orleans Training, Resource and Assistive-technology Center (TRAC) provides quality services to persons with disabilities, rehabilitation professionals, educators and employers. UNO TRAC has built a solid reputation for its innovative training programs and community outreach efforts. The Center is recognized as a valuable resource statewide, nationally and internationally on disability issues. The TRAC building is a training, evaluation, conference, administrative and short-term residential facility. Please call 504-280-5700 for more information or information or visit: <http://www.uno.edu/research/trac.aspx> .

## Student Success

The University of New Orleans offers a number of programs that promote and support student success from the first year through graduation.

### First Year Advising (FYA)

First Year Advising is an advising program that assists incoming freshmen and transfer students with less than 30 hours with advising needs. It is common for incoming students to have questions regarding a major, class schedules, and registration. Incoming freshmen and incoming transfer students with less than 30 hours will meet with the First Year Advising staff members for academic advising sessions. FYA assists students throughout their first year at UNO to ensure they progress on the right academic track. To find the appropriate First Year Advisor, please visit: <http://www.uno.edu/first-year-advising/advisors.aspx>

### First Year Experience (FYE)

First Year Experience is a program to assist first year students with transitioning to college. The first year of college can be exciting, stressful, and fun; however, the first year can often be the most challenging. FYE is tasked with making sure freshmen transition to college as easily as possible. FYE provides a broad network of support services and programs that address the academic, personal, and social needs of first year students and promote student success. FYE provides outreach and necessary interventions to students who are experiencing academic and social difficulties. FYE works collaboratively with faculty and staff across the campus to provide additional resources for first year students. For more information, please visit <http://www.uno.edu/fye>, or contact [fye@uno.edu](mailto:fye@uno.edu) or 504-280-6220.

### Learning Resource Center (LRC)

The Learning Resource Center is located in Liberal Arts 334. The LRC houses the Writing Center and a 23-station computer lab for all students to utilize. It provides information about all departmental tutoring offered each semester and about the Supplemental Instruction Program on campus. All tutoring services and resources are free and available to all UNO students. For more information, please visit <http://www.uno.edu/lrc> , or contact [lrc@uno.edu](mailto:lrc@uno.edu) or 504-280-7054.

### New Student Orientation (NSO)

New Student Orientation is an informative campus program for all new freshmen, transfer, and adult students. The program, sponsored by the Office of Enrollment Services, is designed to help ease new students' adjustment to the University of New Orleans. The program addresses new student concerns and questions and provides a comfortable and satisfying transition to university life. The program allows new students to register for classes. The freshman program now includes an overnight component, allowing incoming students the opportunity to experience on campus living. For more information, please visit <http://www.uno.edu/nso> , or contact [nso@uno.edu](mailto:nso@uno.edu) or 504-280-5458.

### Orleans-Jefferson Educational Talent Search Program (OJETS)

OJETS is federally funded through the U.S. Department of Education. OJETS provides specific services and activities to participants from the target area of Orleans and Jefferson Parishes. The program's mission is to serve young people in grades 8-12. This intervention program helps individuals from low income and potential first generation student's families to better understand their educational opportunities and options. OJETS identifies qualified youth with potential for education at the postsecondary level and encourages them to complete secondary school; OJETS assists eligible participants to enter a program of postsecondary education; and OJETS encourages persons who have not completed education programs at the secondary and postsecondary level to

re-enter these programs. In addition to motivation, vocation, social and personal counseling, participants receive information about college admissions requirements, scholarships, and various student financial aid programs. For more information, please contact the UNO Associate Director for OJETS at [enascare@uno.edu](mailto:enascare@uno.edu) or 504-280-5560.

#### Privateer Enrollment Center (PEC)

The Privateer Enrollment Center was opened in July 2013 and is located in the heart of the campus in the Earl K. Long Library. The Center offers knowledgeable staff who welcome and assist students in all areas of enrollment services including Admissions (Graduate and Undergraduate), Financial Aid, New Student Orientation, First Year Experience, First Year Advising, and Veterans Affairs. The PEC is designed to expedite the enrollment process as well as facilitate a successful first year for all students. For example, students will receive their first introduction to UNO in the state of the art Privateer Pride Room for a campus tour, submit documents for admission, receive federal financial aid counseling or student success coaching, meet enthusiastic and welcoming orientation leaders, learn what courses to select or about ways to get involved on campus, inquire about veterans benefits, or obtain their photo identification. The PEC is the place to visit for students to be connected to resources related to their academic, personal, and professional goals. It is also the location of Centralized Enrollment Services each semester. Additional services during those times will include representatives from the Office of the Bursar, UNO Federal Credit Union, Campus Dining, Student Health Services, University Police for parking passes, and the University Computing Center's Help Desk.

After first contact with students, they are connected to services by Alpha Teams. For example, if a student's last name begins with B, then this student has a specific member of the UNO staff from each department devoted to them from the A-D team. Each team consists of an admissions counselor, a financial aid counselor, a financial aid validator, a reception services assistant, an academic advisor and a student success counselor for first year students. For more information, please visit [www.uno.edu/pec](http://www.uno.edu/pec), or contact [pec@uno.edu](mailto:pec@uno.edu) or call 504-280-6595.

#### Project Access: Educational Talent Search Program (ACCESS)

ACCESS is federally funded through the U.S. Department of Education. ACCESS provides specific services and activities to participants from the target areas of Jefferson and Orleans Parishes. The program's mission is to serve young people with disabilities, ages 11 to 27. This early intervention program helps individuals from low income and potential first generation student's families to better understand their educational opportunities and options. ACCESS identifies qualified youth with potential for education at the postsecondary level; encourages them to complete secondary school; assists eligible participants to enter a program of postsecondary education; and encourages persons who have not completed education programs at the secondary and postsecondary level to re-enter these programs. In addition to counseling, participants receive information about disability accommodations, college admissions requirements, scholarships, and various student financial aid programs. For more information, please contact the UNO Associate Director for Project ACCESS at [ddukes@uno.edu](mailto:ddukes@uno.edu) 504-280-7425.

#### Project PASS: Upward Bound (PASS)

PASS is federally funded through the U.S. Department of Education. PASS provides specific services and activities to participants (including students with disabilities) from Eleanor McMain High School, McDonogh # 35 High School, and the target area of Orleans Parish. The program's mission is to help students, in grades 9 through 12, who are on a diploma track to complete high school, to enter a postsecondary education program potential first generation student's families to better understand their educational opportunities and options. Participants receive instruction through a variety of modalities including collaborative learning and computer assisted instruction (with state of the art laptops and iPads). Instruction is provided in language arts, literature, composition, mathematics, sciences, and guidance and counseling on the University of New Orleans campus. Instruction is offered on alternate Saturdays with weekly tutoring in all subjects at McMain and McDonogh #35. During the summer, the same subjects are taught with the addition of foreign language through a thematic approach. Summer program students participate in weekly field trips where they visit college campuses and/or participate in community service activities which earn them volunteer hours which can be used to complete high school requirements. Students who are in the program and have graduated from high school are included in the summer component as well. In addition to motivation, vocation, social, and personal counseling services, participants receive information about college admissions requirements, scholarships and various student financial aid programs and disability accommodations if needed. For more information, please contact the UNO Associate Director for Projects Jefferson and PASS at <mailto:lmolnar@uno.edu> or 504-280-1262.

### Project Jefferson: Upward Bound (Jefferson)

Jefferson is federally funded through the U.S. Department of Education. Jefferson provides specific services and activities to participants (including students with disabilities) from East Jefferson High School, Riverdale High School, and the target area of Jefferson Parish. The program's mission is to help students, in grades 9 through 12, who are on a diploma track to complete high school, to enter a postsecondary education program and to graduate from college. This college preparatory program helps individuals from low income and potential first generation student's families to better understand their educational opportunities and options. Participants receive instruction through a variety of modalities including collaborative learning, and computer assisted instruction (with state of the art laptops and iPads). Instruction is provided in language arts, literature, composition, mathematics, sciences, and guidance and counseling on the University of New Orleans campus. Instruction is offered on alternate Saturdays

with weekly tutoring in all subjects at East Jefferson and Riverdale High School. During the summer, the same subjects are taught with the addition of foreign language through a thematic approach. Summer program students participate in weekly field trips where they visit college campuses, and/or participate in community service activities

which earn them volunteer hours which can be used to complete high school requirements. Students who are in the program and have graduated from high school are included in the summer component as well. In addition to motivation, vocation, social, and personal counseling services, participants receive information about college admissions requirements, scholarships, and various student financial aid programs and disability accommodations if needed. For more information, please contact the UNO Associate Director for Projects Jefferson and PASS at <mailto:lmolnar@uno.edu> or 504-280-1262.

### St. Tammany Educational Talent Search Program (STETS)

STETS is federally funded through the U.S. Department of Education. STETS provides specific services and activities to participants from the target area of St. Tammany Parish. The program's mission to serve young people in grades 7-12. This early intervention program helps individuals from low income and potential first generation student's families to better understand their educational opportunities and options. STETS identifies qualified youth with potential for education at the postsecondary level; encourage them to complete secondary school; assists eligible participants to enter a program of postsecondary education; and encourages persons who have not completed education programs at the secondary and postsecondary level to re-enter these programs. In addition to motivation, vocation, social and personal counseling, participants receive information about college admissions requirements, scholarships, and various student financial aid programs. For more information, please contact the UNO Associate Director for STETS at [awmurray@uno.edu](mailto:awmurray@uno.edu) or 504-280-6565.

### Student Support Services (SSS)

Student Support Services (SSS) is a federally funded grant program designed to provide personal, academic and career guidance to a limited number of eligible undergraduate students enrolled at the University of New Orleans.

SSS provides opportunities for academic development, assists students with basic college requirements and motivates students toward the successful completion of their first undergraduate degrees. The overall goal of SSS is to increase the college retention and graduation rates of its participants. An eligible participant must be first generation, meet federal income guidelines and/or have a documented disability.

SSS services include: academic tutoring; advice and assistance in course selection; assistance with information on student financial aid programs, scholarships, assistance in completing financial aid applications and activities designed to improve financial literacy; assist students in applying for admission to graduate and professional programs; and exposure to cultural events and academic programs not usually available to our targeted population.

Student Support Services also provides supplemental grant aid to current SSS participants who are receiving Federal Pell Grants and meet other program requirements. For more information contact: Student Support Services, Bicentennial Education Center, Room 147, (504) 280-5457, (504) 280-5566 (fax) or at [sss@uno.edu](mailto:sss@uno.edu), or <http://sss.uno.edu>.

### UNO Classic Upward Bound Program

The Classic Upward Bound Program is a federally funded TRiO Program under the auspices of the U. S. Department of Education. The program serves high school students from low-income families and/or families in

which neither parent holds a bachelor's degree. During the academic and summer components the Upward Bound students participate in a program of study that includes academic classes, tutoring, financial aid resources, financial literacy, counseling, college tours, and cultural enrichment activities.

Students who complete at least two years in the program before graduation from high school also benefit from participation in the Upward Bound Summer Bridge Program, which permits eligible students to enroll in the University of New Orleans. Student fees for enrollment in up to two University of New Orleans college courses are funded by the Classic Upward Bound Program. For more information, please contact the UNO Classic Upward Bound Director, at [ldbates1@uno.edu](mailto:ldbates1@uno.edu) or (504) 280-7050.

### University Success (UNIV)

UNIV 1001 is a one credit, letter-graded course required for all first time full time freshman. Students will meet in groups led by an experienced faculty or staff member and a peer mentor (an experienced student) for an in-depth review of skills and issues relevant to academic and personal success at the University. Topics include time management, effective note-taking and test preparation, campus diversity, and university resources. Enrollment is restricted to students with less than 30 hours of credit only. Enrollment is optional for transfer students within their 30 hours of credit at UNO. For more information about University Success, please visit <http://www.uno.edu/univ1001>

### UNO Writing Center

The Writing Center offers free help to students who want to improve their writing. Students who come to the Writing Center work with tutors in one-on-one sessions on any kind of writing problem- brainstorming, researching, organizing, and developing ideas for their papers. In addition, students may submit a draft of a paper (no longer than 5 pages) for feedback. While the Writing Center does not proofread or edit papers for students, the tutors show writers how to become better editors of their papers with regard to grammar and stylistic problems. The Writing Center welcomes papers written in all disciplines, not just in English. In addition, the Writing Center offers group workshops for various grammar and writing issues; its webpage provides handouts for grammar and writing problems, as well as other resources. For more information, please visit the Learning Resource Center's website at <http://www.uno.edu/lrc/writingcenter> or call (504) 280-7054

### UNO Lindy C. Boggs Conference Center and UNO Conference Services

The Lindy C. Boggs Conference Center, located directly on Lake Pontchartrain, across Lakeshore Drive from UNO's main campus, offers a full service conference center with free parking, away from the distractions of downtown New Orleans. The center has 20 meeting rooms of varying sizes; the largest can accommodate 270 attendees. The Center hosts over 250 meetings a year ranging in size from 15 to 400 attendees. Audio visual equipment rental, technical support, and full service conference planning are also available.

UNO Conference Services Meeting Planning is not limited to conferences held at the Lindy C. Boggs Conference Center. Meeting Planning has administered conferences held at local hotels, as well as in other cities, states, or countries. Meeting Planning provides personalized service for conferences, allowing constituents to be the host while staff ensure all details are addressed. The Conference Center offers full service meeting planning including: assisting with scheduling of dates, choosing a site, negotiating with hotels, establishing a budget, choosing menus, providing secure on-line registration, collecting fees, arranging transportation, printing conference literature, and manning your registration table throughout your event. After the event Meeting Planning will provide detailed financial statements and attendee lists.

For more information about the Lindy C. Boggs Conference Center or UNO Conference Services Meeting Planning, please visit the website at <http://conferences.uno.edu> , or contact [confmc@uno.edu](mailto:confmc@uno.edu) or 1-800-559-6580.

## University Computing and Communications

University Computing and Communications (UCC) is a comprehensive Information Technology service organization providing support for Academic and Administrative Computing, Servers and Networks, User Training and Support, and Telephony. More information may be found at the UCC website <http://ucc.uno.edu> , or by contacting [helpdesk@uno.edu](mailto:helpdesk@uno.edu) or (504) 280-4357.

The University of New Orleans operates a complex array of multivendor UNIX and Windows servers connected to thousands of workstations over a high speed local and metropolitan area networks. The following is a brief

description of the University's major computing services and systems managed by UCC:

### Administrative Systems

UNO's HR, Student, and Financial systems from PeopleSoft run on an array of Windows servers. PeopleSoft systems may be accessed via the campus network, and the Web.

### Network Systems

The campus network consists of a multi-gigabit Ethernet-based backbone network interconnecting all main campus buildings and remote campus sites to provide data communications to meet campus academic and administrative needs. The network provides support for over 5000 wired and wireless clients, access to Internet1, and to the advanced research networks, Internet2 and the National Lambda Rail.

### Telephone Services

The UCC provides for enterprise-wide telephone services supporting local, long-distance, and specialized communications needs for the campus.

### Messaging and Email

All enrolled students, faculty, and staff are provided mailboxes on the latest collaborative email system. Students utilize state-of-the-art cloud computing providing mail, calendaring, Skydrive and Office tools – Word, PowerPoint and Excel. Staff utilize a locally hosted system. This system provides calendaring, mail, and other features through a rich Web interface as well as providing connections for Outlook email clients and legacy mail clients using POP, SMTP, and IMAP. Both UNO messaging systems also support ActiveSync providing mail and calendaring services to Smartphones. The systems provide automated distribution lists that are used to dispense news and alerts. In addition, UNO uses an off campus notification system that can provide emergency alerts to students' cell phones in case of a campus emergency. The messaging team also manages the UNO web servers. UNO webs utilize both dynamic content management systems as well as static web servers. Both operate in tandem and all content is indexed by the UNO campus search engine.

### Help Desk and Desktop Support

UCC operates Help Desk and Desktop Support units that provide hardware and software support services for the UNO community. These units provide the University with a helpful, single point of service for peripherals, desktop software and hardware, and support for UNO's main computing systems including Windows, Apple, PeopleSoft, WebSTAR, Microsoft Office, SAS, SPSS, Mathematica, Matlab, email, SharePoint, Moodle, anti-virus software, and computing account support. The Help Desk may be reached by telephone at 280-HELP (280-4357), via e-mail at [helpdesk@uno.edu](mailto:helpdesk@uno.edu), or in person in room 1O1R of the Computer Center.

### ID Cards

The Identity management team produces identification cards for students, faculty and staff at the University Computer Center. These devices are used for card access to selected buildings, dormitory rooms, Library borrowing privileges, and food services for students electing a prepaid food plan.

### Faculty and Staffing Training

University Computing and Communications maintains a resource center dedicated to meeting the technology needs of the UNO Faculty and Staff. The FSRC offers 17 PC computers with CD/DVD burners, 2 iMac computers, a scanner, 1 Black and White Laser printer and 1 Color Inkjet printer.

### Accounts

All students, faculty, and staff receive accounts for access to computers and the following computing systems: Email, Local Area Network (LAN), Moodle (UNO's E-Learning Management System), SharePoint and the WebSTAR student system. All accounts share the same user id and password.

### Student Computing Labs

The UNO technology fee provides students with a rich variety of computer labs for learning. Two types of facilities exist. Student Open Labs are general use facilities that are available to any enrolled UNO student

on a drop-in first-come, first-serve basis. Departmental Labs are restricted facilities dedicated for use by students enrolled in specific classes.

### Training Workshops

UCC offers free training to UNO faculty and staff in the areas of PeopleSoft, SharePoint, and Microsoft applications. Training workshops are available every semester.

### Statistical Computing

As a Carnegie Research University, UNO is committed to the process of discovery. To assist graduate students and researchers with quantitative analysis, UNO supports SAS and SPSS for statistical computing. The university has a site license for these packages, and they are available in all student open labs managed by University Computing and Communications.

### Mathematical Computing

To assist students and researchers, UNO licenses Mathematica and MATLAB. Mathematica integrates mathematical computing, visualization, and a powerful language to provide a flexible environment for technical computing. MATLAB is the tool of choice for scientific research in physics and engineering analysis and modeling, from simple calculator operations to large-scale programming and interactive document preparation. MATLAB and Mathematica are available on all student open labs managed by University Computing and Communications.

### Research Computing

The University is a member of the Louisiana Optical Network Initiative (LONI) and an Affiliate Member of UCAID (Internet 2). LONI is a state-of-the-art, fiber optics network that runs throughout Louisiana, and connects Louisiana and Mississippi research universities as well as to the National LambdaRail and Internet2. Through LONI, researchers have access to one of the most powerful supercomputing resources available to any academic community with over 85 teraflops of computational capacity from systems based at Louisiana universities, 5.6 teraflops of which is directly provided by two supercomputers located at UNO, a 128 node Dell Linux Cluster and an IBM Power5 575 AIX cluster. In addition, LONI provides access to the TeraGrid community, the world's largest, most comprehensive distributed cyber infrastructure for open scientific research. Through our association with LONI, UNOnet currently has access to the following Internet services: Commodity Internet (I1) at 90 Mb/sec, Internet2 (I2) at 1 Gigabit/sec, and National Lambda Rail at 10 Gigabit/sec (for Supercomputer clustering and Grid based computing support).

### UNO Women's Center

The UNO Women's Center was created in 1985 to serve the diverse needs of women in the university and to affirm the lives of women at the University and in the communities of New Orleans. The Women's Center offers scholarship and book awards, and provides research assistance, space and support for student activities, and a range of programming throughout the year. Events include: monthly Coffee Talk Lecture Series, educational speakers, discussion and support groups, and periodic workshops on preventing violence against women. In addition, the Center acts as a referral hub for counseling and community services, and is a liaison between campus groups and departments addressing women's issues at UNO, and works with women's advocacy groups in the region. Students, staff, and faculty are welcome. Fall and Spring hours are from 9 a.m. to 4:30 p.m. and until 7 p.m. at least one day per week; Summer hours are 9 a.m. to 4:30 p.m.

Women's Center, Earl K. Long Library, Room 201, University of New Orleans, 2000 Lakeshore Drive, New Orleans, LA 70148, Tel#504.280.7285. <http://wmcn.uno.edu>



2000 Lakeshore Drive  
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# College of Business Administration

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## John A Williams, Dean

Mission Statement: The Mission of the College of Business Administration is to deliver a quality business education to our international, regional, and local communities through teaching, research, service to our stakeholders, and the effective use of technology. We will facilitate economic development and entrepreneurial activity, and adhere to the core values of continuous improvement, high ethical standards, and diversity in the educational environment.

The College of Business Administration offers the following four-year undergraduate programs of study: Accounting; Business Administration; Finance; Hotel, Restaurant, and Tourism Administration; Management and Marketing.

Theoretical and case study methods are employed to develop problem-solving and decision-making abilities which lead to the intellectual growth of business students preparing for positions of responsibility in the community. In order to produce this quality of graduate, the College has the specific objectives of:

1. creating and maintaining curricula which provide a common body of knowledge in the field of business administration as well as a broad liberal arts and science background;
2. instructing in a manner to instill lasting concepts and thinking ability;
3. encouraging faculty research and development to maintain instructional relevancy to the present and future; and
4. maintaining a continuing service to the civic and business community of the greater New Orleans metropolitan area.

## Accreditation

The following undergraduate and graduate programs in business and accounting offered by the College of Business Administration, University of New Orleans, are accredited by the Association to Advance Collegiate Schools of Business (AACSB International):

### Business, Bachelor of Science Degree

- Business Administration
- Finance
- Hotel, Restaurant, and Tourism Administration
- Management
- Marketing

### Business and Accounting, Bachelor of Science Degree

- Accounting

### Master's Degree

- Master of Business Administration
- Master of Science in Accounting
- Master of Science in Accounting (Taxation Option)
- Master of Science in Health Care Management
- Master of Science in Hospitality and Tourism Management

### Doctoral Degree

- Ph.D. in Financial Economics

### Minors in Business

The following minors in the College of Business Administration are available to all students:

- Accounting
- Economics
- Entrepreneurship
- Finance
- Global Business Studies
- Hotel, Restaurant and Tourism
- Information Systems Management
- Management
- Marketing

Requirements for these minors may be found under each major program description in the College of Business Administration section.

The following minor in the College of Business Administration is available to non-business administration students only:

- Business Administration

## Requirements for the Bachelor of Science Degree

Students must earn a minimum of 120 semester hours and at least 50 percent of the business credit hours required for the business degree at the University of New Orleans.

Students transferring from another University are required to take at least 50% of the hours in their Major area in the College of Business Administration at UNO.

Students are also held responsible for knowing degree requirements, for enrolling in courses that fit their degree programs, and for taking courses in the proper sequence to ensure orderly progression of work. Each student is held responsible for notifying the college office of graduation plans at the beginning of the semester proceeding the student's final semester. At that point, a degree audit is prepared which outlines the student's current scholastic position and indicates the course requirements remaining for the degree.

Students in the College of Business Administration are strongly encouraged to complete English 1158 with a C or better and Mathematics 1115 at the earliest possible time in their college career. Several required sophomore-level courses have these courses as prerequisites.

In addition to the general degree requirements (listed below), each student must complete the college degree

requirements as follows.

### General Education Course Requirements

Courses	Cr. Hrs.
Mathematics 1115 or 1125, 2785	6
Science	9
Must include six hours of one science and three hours of another. One of the sciences must be biology and the other must be chemistry, earth and environmental sciences, or physics.	
English and Literature	9
English 1157, and 1158 or 1159 or its equivalent with a grade of C or better, plus three additional hours in literature <sup>1</sup> . Writing courses and courses in grammar will not meet the literature requirement.	
Arts	3
Must be selected from fine arts, film- or theater- or dance-related course, or music.	
Humanities <sup>1</sup>	6
Social Sciences	3

A student may use no more than three hours credit taken in health and physical education courses, six hours taken in military science courses, six hours taken in religion, or a maximum of six hours combined credit in these three areas.

1. Any literature course used to fulfill the literature requirement listed under English shall not count toward the humanities requirement.

### Business Administration Course Requirements

Courses	Cr. Hrs.
Accounting 2100, 2130 (or 3121 & 3122 for accounting and finance majors)	6 (9)
Business Administration 2780	3
Business Administration 3010 <sup>1</sup>	3
Economics 1203, 1204	6
Finance 3300	3
Management 2790, 3401, 3402, 4480 <sup>2</sup>	12
Marketing 3501	3
Quantitative Methods–Business & Economics QMBE 2786, 2787 <sup>3</sup>	4

1. HRT majors take Hotel, Restaurant and Tourism 3016
2. HRT majors take Management 3467 in lieu of Management 3402 and Hotel, Restaurant and Tourism 4000 in lieu of Management 4480
3. HRT majors are not required to take QMBE 2786 or 2787

A maximum of six credit hours from any of four 1000-level courses: Business Administration 1000, or Economics 1000, or Economics 1273, or Finance 1330, may be used for credit toward a degree in the College of Business Administration unless a particular curriculum has restrictions which supersede this regulation. (Business Administration 1000, Economics 1000, and Finance 1330 are not open to students enrolled in the College of Business Administration who have completed 30 hours of university credit.)

Additionally, completion of the prescribed course of study in one of the following programs is required for the Bachelor of Science degree. All majors in the College of Business Administration must demonstrate their possession of global awareness by passing two courses from the college's list of courses designated as global awareness courses. A 2.0 average must be earned in all courses taken at UNO in the student's Major as a requirement for graduation.

## Division of Business and Economic Research

The Division of Business and Economic Research (DBER) facilitates and supports academic research and the publication of research findings in a variety of business fields. Since 1963 the DBER has been a member of the Association for University Business and Economic Research, an organization that includes 100 research institutes internationally.

The DBER collects and disseminates socioeconomic statistics to private firms and government agencies. The DBER performs and publishes research on demographic and economic characteristics of Louisiana and its component areas.

The results of its quarterly forecasting model of employment by sector and other local indicators for the New Orleans metropolitan area are published in the *Metropolitan Report: Economic Indicators for the New Orleans Area*. These results are widely used by the New Orleans business community and others. After Hurricane Katrina, these economic indicators are published in a highly anticipated anniversary edition.

The DBER is an authority for economic and demographic information, analysis, and forecasts on the New Orleans area. Together with faculty from the School of Hotel, Restaurant and Tourism Administration, the Hospitality Research Center was formed, which is a *Center of Excellence*. The Hospitality Research Center has produced a number of tourism and hospitality research studies for local, state and out-of-state clients.

## Hospitality Research Center

Approved by the Louisiana Board of Regents, the Hospitality Research Center (HRC) at the University of New Orleans is a collaborative effort of the Division of Business and Economic Research (DBER) and the Lester E. Kabacoff School of Hotel, Restaurant and Tourism Administration (HRT). The HRC is the Premier center for hospitality and tourism research in the nation and a *Center of Excellence* at the University of New Orleans. The HRC is consistently recognized for research productivity in the hospitality field. The function of the Hospitality Research Center is to provide a variety of research services to hospitality and tourism organizations for local, state and out-of-state clients. Research projects include: Visitor Profiles, Tourism Indicators and Forecast, Impact of Festivals on the Economy, Industry Salary Surveys, Convention Studies, Perception Studies, Convention Bookings Studies, Louisiana Tourism Conversion Studies and Sporting Event Studies.

## Institute for Economic Development and Real Estate Research

The institute for Economic Development and Real Estate Research combines the resources of the Center for Economic and Community Development and Real Estate Research Center to provide technical assistance and applied research for public, private and nonprofit organizations throughout its service area.

## Center for Economic Development

The Center for Economic Development was established in 1978 as a joint effort of the state and federal government to work cooperatively with local agencies and non-profit organizations to create an environment which encourages economic diversification and growth. The Center at UNO is part of a network of over 65 university center programs funded by the U.S. Department of Commerce, Economic Development Administration throughout the United States which help to direct the technical and human resources of institutions of higher education to their surrounding communities. The Center has been engaged in a wide variety of research and technical assistance programs involving resources from within the College of Business Administration as well as other colleges and community service units at UNO.

The Center's website is [www.ced.uno.edu](http://www.ced.uno.edu).

## Real Estate Research Center

The Real Estate Research Center was established to serve the real estate community as well as the general public. The three main areas of services offered by the Center are professional real estate education, primary real estate market data and contracted research.

The mission of professional real estate education is accomplished through continuing education courses and conferences, including the Annual Economic Outlook and Real Estate Forecast Seminar and Economic Development and Real Estate Outlook for the Northshore.

Market data has been published in the *Metropolitan New Orleans Real Estate Market Analysis* since 1978 and *Northshore Real Estate Market Analysis* since 2008 annually. It covers real estate market trends for apartments, office, retail, warehouse and industrial properties. The report also describes current trends for single-family and condominium housing by parish and Multiple Listing System (MLS) neighborhood. This analysis of the real estate market is distributed at the local, state and national levels.

The Center's website is [www.realestate.uno.edu](http://www.realestate.uno.edu).

## Major Programs

<a href="#">Accounting</a>	<a href="#">Hotel, Restaurant and Tourism Administration</a>
<a href="#">Business Administration</a>	<a href="#">Management</a>
<a href="#">Finance</a>	<a href="#">Marketing</a>

## Bachelor of Science Degree in Accounting

### Department of Accounting Mission

The mission of the Department of Accounting is to provide programs, at both the undergraduate and graduate levels, that prepare our students for careers as professional accountants in public practice, industry, and other areas, and for advancement into graduate programs. We will do this by maintaining high academic standards, superior teaching, quality research, significant service, and the effective use of technology. We recognize the importance of continuous improvement, high ethical standards, and diversity in the educational environment.

### Statement of Goals

1. The Department will provide intellectual contributions that benefit the academic and professional communities.
2. The Department of Accounting faculty will provide accounting instruction in support of our departmental mission.
3. The Department will provide service to national, regional and local professional associations and to the University and local communities.

### Accreditation

In addition to college-wide accreditation, the Bachelor of Science in Accounting and the Master of Science in Accounting programs are separately accredited by AACSB International.

### Admissions Requirements

College of Business Administration students are eligible to declare a major in accounting if they have thirty semester hours earned and an overall average of 2.2 or higher on all work taken prior to declaring an accounting major.

The Department of Accounting ordinarily requires 50% of the Major hours of accounting courses to be taken in residence at UNO in order to receive an undergraduate degree in accounting. The accounting faculty strongly urges students with less than a 3.0 GPA not to take more than six hours of accounting per semester.

## Student Learning Outcomes

### Bachelor of Science in Accounting

1. Students will demonstrate a proficiency in financial accounting and governmental accounting concepts.
2. Students will demonstrate proficiency in auditing concepts.
3. Students will demonstrate a proficiency in individual income taxation concepts
4. Students will demonstrate proficiency in cost/managerial accounting and accounting information system concepts.
5. Students will demonstrate the effective use of computers and information technology.
6. Students will demonstrate a proficiency in conducting auditing, financial accounting, and tax research.

## Curriculum in Accounting

### Bachelor of Science in Accounting

General Education Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
English		BIOS or same as physical Science	3
ENGL 1157	3	Humanities	
ENGL 1158 or 1159 <sup>1</sup>	3	Humanities Elective <sup>2</sup>	6
Mathematics		ENGL Literature	3
MATH 1115 or 1125 or higher	3	Social Sciences	
MATH 2785 or 2314	3	ECON 1203	3
Science		Social Science Elective <sup>4</sup>	3
BIOS	3	Arts (Fine Arts, Music, FTA except 2650, 2660)	3
Other Physical Science	3		
		Total	39

Other Requirements <sup>3</sup>			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
ACCT 2100 <sup>1</sup>	3	MANG 3402	3
BA 2780, 3010	6	MANG 4480	3
ECON 1204	3	MKT 3501	3
FIN 3300	3	QMBE 2786, 2787	4
MANG 2790	3	Electives <sup>2</sup>	13
MANG 3401	3	Business Elective <sup>2</sup>	3
		Total	50

Course Requirements for Major			
Course Name/ #	Credit	Course Name/#	Credit

	Hours		Hours
ACCT 3120	1	ACCT 3131, 3141	6
ACCT 3121 <sup>1</sup>	3	ACCT 3152, 3161	6
ACCT 3122 <sup>1</sup>	3	ACCT Elective 4000 Level	3
ACCT 3123, 3124	6	BA 3021	3
		Total	31

Total Credit Hours Required	Credit Hours
	120

1. "C" or better required
2. Must select either FTA 2650 as a Humanities or MANG 2472, 3472, 3474 as an Elective or Business Elective
3. Must have more than 30 hours earned and a cumulative GPA of 2.2 or higher to change plans from PACCT to ACCT
4. Check General Education Courses to confirm what courses fulfill this requirement

#### Recommended Four-Year Plan of Study Bachelor of Science in Accounting

Four Year Plan of Study			
First Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ENGL 1157	3	ENGL 1158 or 1159 <sup>1</sup>	3
MATH 1115 or 1125 or higher	3	MATH 2785 or 2314	3
Arts	3	BIOS	3
Social Science	3	BA 2780	3
Elective <sup>2</sup>	3	ECON 1203	3
UNIV 1001 <sup>3</sup>	1		
Total Hours	16	Total Hours	15

Second Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ACCT 2100 <sup>1</sup>	3	ACCT 3120	1
ECON 1204	3	ACCT 3121 <sup>1</sup>	3
EES, CHEM or PHYS	3	ACCT 3141	3
Humanities <sup>2</sup>	3	BIOS or same as 3 <sup>rd</sup> term (EES, CHEM, PHYS)	3

QMBE 2786	3	Humanities <sup>2</sup>	3
QMBE 2787	1	MANG 2790	3
Total Hours	16	Total Hours	16

Third Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ACCT 3122 <sup>1</sup>	3	ACCT 3152	3
ACCT 3131	3	ACCT 3123	3
MANG 3401	3	FIN 3300	3
Literature	3	MANG 3402	3
Elective <sup>2</sup>	3	Elective <sup>2</sup>	3
Total Hours	15	Total Hours	15

Fourth Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ACCT 3161	3	ACCT 3124	3
BA 3010	3	ACCT Elective 4000 level	3
Business Elective <sup>2</sup>	3	BA 3021	3
MKT 3501	3	MANG 4480	3
Elective <sup>2</sup>	3		
Total Hours	15	Total Hours	12
Total Degree Hours			120

A 2.2 overall GPA is required to be admitted into the Accounting plan

1. "C" or better required
2. Must select either FTA 2650 as Humanities Elective or MANG 2472, 3472, 3474 as Elective or Business Elective.
3. Required for all first-time full-time students.

## PRE- CPA PROGRAM

### Purpose

The purpose of the Pre-CPA program is to provide the courses needed to take the CPA exam in Louisiana. The program is intended to be an alternative to rather than a replacement for the Master of Science programs.

### Requirements

To be eligible to take the CPA exam in Louisiana an individual must meet the following criteria from a university or college approved by the board:

1. Possess at least a baccalaureate degree,
2. Have at least 150 semester hours of post-secondary, graduate, or post-graduate education classes,
3. Have college/university credit for the specific accounting courses and electives, and
4. Have college/university credit for twenty-four hours of business courses including a course in commercial law as it affects accountancy.

Accounting courses: 24 hours above Principles

Business Courses: 24 hours including 3 hours of Business Law (BA 3021) as it affects accountancy.

See Department for specific courses and limitations. Additional details regarding the requirements to take the CPA exam are listed at : [www.cpaboard.state.la.us](http://www.cpaboard.state.la.us).

### Minor in Accounting

Students may earn a minor in accounting by completing 19 hours of accounting courses with a cumulative GPA of 2.0 or better in all accounting courses attempted. Twelve hours of these accounting courses must be completed at UNO with a cumulative GPA of 2.0 or better. The following accounting courses comprise the minor in accounting: Accounting 2100, 3120, 3121, 3122, 3131, and six hours of accounting electives from accounting courses open to accounting majors for degree credit. Three of the six hours of accounting electives must be 3000 level or above. Accounting 2130 may not be used for credit toward the minor in accounting.

### Honors in Accounting

To graduate with Honors in Accounting the following requirements must be fulfilled:

- Complete the usual requirements for accounting majors.
- Maintain a minimum cumulative grade point average of 3.5 in accounting courses and 3.5 overall.
- Complete a minimum of six credit hours in non-business courses.
- Complete at least six credit hours of honors coursework in accounting beyond Accounting 2100.

Complete a Senior Honors Thesis (six credit hours). These six credit hours replace Accounting (three credit hours) and Business (three credit hours) course electives. Acceptance of thesis depends on successful oral defense.

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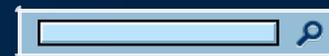
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# College of Education and Human Development

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## Darrell P. Kruger, Dean

The mission of the College of Education and Human Development is to improve teaching and leadership, advance life-long learning, and promote health and wellness through enhanced community partnerships.

The College accomplishes this mission through:

- Baccalaureate, Master's and Doctoral programs of study
- Interaction of practice and theory
- Inclusive practice among diverse populations
- Proactive efforts to optimize health and wellness across the lifespan
- Involvement at local, state, national and international levels
- Generation and dissemination of applied, basic and sponsored research
- Application of current and advanced technology
- Mutually beneficial partnerships to enhance communities and improve school

## Accreditation

The College of Education and Human Development is fully accredited by the National Council for Accreditation of Teacher Education (NCATE), and its certification programs are approved by the Louisiana Board of Elementary and Secondary Education (BESE) and the Louisiana Board of Regents. A list of the certification programs offered by the college that are nationally recognized by Specialty Professional Associations affiliated with NCATE may be found at the college web site ([www.uno.edu/coehd](http://www.uno.edu/coehd)).

## Organization of the College

Three academic departments comprise the College of Education and Human Development: the Department of Curriculum and Instruction, the Department of Educational Leadership, Counseling, and Foundations, and the Department of Special Education and Habilitative Services. All departments offer a variety of graduate degree programs and only the Department of Curriculum and Instruction offers undergraduate degrees. Core coursework (noted as EDUC) is offered to support the teacher education program. In addition to the departments, there are several research, innovation, and service units in the college. A complete listing of current funded programs is available at the college web site ([www.uno.edu/coehd](http://www.uno.edu/coehd)).

## Teacher Education Program

### [Programs of Study](#)

The College of Education and Human Development offers teacher education programs at the undergraduate and graduate levels. The program of study for undergraduate teacher education degrees is designed to meet the requirements of the Board of Regents to earn an undergraduate degree and the requirements of the Louisiana Department of Education to earn teacher certification. Each course in the program of study meet two categories of requirements, one for degree requirements and one teacher certification requirements. Degree requirements are organized in three categories of coursework; general education, other requirements, and major requirements. Teacher certification requirements are organized in four categories of coursework: general education, knowledge of the learner and the learning environment, focus area, and methodology and teaching.

The following table provides an overview of each certification and degree option offered in teacher education. These programs are described below in this section of the catalog.

<a href="#">Elementary Education</a>	<a href="#">Secondary Teaching - English</a>
<a href="#">Elementary Education and Mild Moderate Disabilities</a>	<a href="#">Secondary Teaching - Mathematics</a>
<a href="#">Secondary Teaching - Biology</a>	<a href="#">Secondary Teaching - Social Studies</a>
<a href="#">Secondary Teaching - Chemistry</a>	<a href="#">Human Performance and Health Promotion - Exercise Physiology Concentration</a>
<a href="#">Secondary Teaching - Earth Science</a>	<a href="#">Human Performance and Health Promotion -Health Promotion Concentration</a>

In addition to initial certification programs, the College of Education and Human Development offers several advanced-level programs of study focused on the needs of teachers, school leadership personnel, counselors, community and health agency personnel. These programs are described on the college web site at [www.uno.edu/coehd](http://www.uno.edu/coehd).

The Teacher Education Program prepares teachers who will render high quality, professional service in preschool, elementary, middle, secondary schools, and other educational settings. The College's programs are grounded in a performance-based curriculum model aligned with the unit's conceptual framework that supports teachers in the performance of six critical teacher roles and responsibilities:

1. designing and delivering instruction,
2. advocating for students and services,
3. providing support for group practice,
4. managing time, tasks, and environments,
5. using inquiry to inform practice, and,
6. improving school and system practice.

The teacher education program is dedicated to understanding and valuing diversity among faculty, staff, and students. The college utilizes the academic resources of the university and community schools to provide candidates with a broad general education and a concentrated content-area education. Professional preparation, together with the relationships of the study of education to other fields of knowledge, is the responsibility of the College of Education and Human Development.

The College of Education and Human Development administers all curricula designed for the preparation of teachers. Three programs are offered for initial teacher certification, one at the undergraduate level and the others at the graduate level. Graduate options include the Master of Arts in Teaching (MAT) and Non-degree Graduate program. The Non-degree Graduate program option is only available to secondary minor candidate who are continuing as a graduate student to complete certification requirements.

## Objectives of Teacher Education Programs

Candidates in teacher education programs at UNO are expected to:

1. Develop a background of knowledge in general education and one or more academic content areas.
2. Develop an awareness of teaching as a profession, which includes an understanding of how teachers promote individual student achievement, school improvement, school and district accountability, and long term professional development.
3. Develop an awareness of the relationship between socio-cultural factors and the educative process, which includes developing the ability to communicate effectively with students, parents, other site-based professionals, and persons representing community agencies.
4. Understand, identify, assess, and make plans to accommodate the individual student's emotional, social, physical, and intellectual needs.
5. Demonstrate skills aligned with the Louisiana Compass Educator Support and Evaluation System, relevant Common Core State Standards (CCSS), national standards aligned with Specialty Professional Associations, and other curriculum reform initiatives in planning, implementing, and assessing instruction and its impact on student learning.
6. Plan instruction that correlates with the Louisiana Educational Assessment Program (LEAP 21). Plan instruction that correlates with Partnership for Assessment of Readiness for College and Careers (PARCC) scheduled to be implemented for 2014-2015 school year.
7. Plan, deliver, and assess instruction that integrates a variety of electronic software applications and related technologies.
8. Acquire and apply skills of classroom management and interpersonal relationships that enhance the educational environment and promote student learning.
9. Demonstrate dispositions expected of effective educators as documented through field experience in school settings.

The University of New Orleans Teacher Education Program is designed using an inquiry-based conceptual framework to support the preparation of reflective practitioners. Information about the conceptual framework may be found on the college web site at [www.uno.edu/coehd](http://www.uno.edu/coehd). Following are the key elements of the Teacher Education program of study.

1. Performance-based. The program of study moves beyond simply aligning specific competencies with specific courses. Rather, it supports teacher candidates in the repeated use of competencies in different ways according to the changing demands of students and teaching environments. This model ensures that teachers can produce effective outcomes for their students and for the schools in which they teach.
2. Role-focused. A performance based program focuses on teachers being competent in performing the multiple roles associated with effective teaching. These roles are aligned with the Louisiana Components of Effective Teaching.
3. Thematic content. The program of study is designed for key content related to teaching performance (e.g., assessment) to be addressed at multiple points rather than in singular courses.
4. Sequenced field activities. Opportunity to practice targeted competencies in schools is critical to a performance based program. An effective program of study includes well-crafted field experiences that increase in demand and complexity as the candidate moves through the program.
5. Authentic evaluation. The UNO teacher education program utilizes an electronic professional portfolio as the key tool for evaluating teacher effectiveness and content mastery. All teacher education candidates are required to purchase a Live Text account to support the development of an electronic portfolio. Information on Live Text may be found at [www.uno.edu/coehd](http://www.uno.edu/coehd). Performance review takes place at distinct points during each program of study in order to identify both professional strengths and areas of need. Multiple perspectives are incorporated into the evaluation process.
6. Induction Support. The portfolio format used in the teacher education program is designed to assist program graduates in aligning their work with state and national standards as required by their employing district during the induction period of service.

## Undergraduate Teacher Education Pathway

Two grade-level certification options are offered at the undergraduate level: Elementary (Grades 1- 5), and Secondary (Grades 6-12) in a specific content area. Secondary content areas include: English, Mathematics, Social Studies, and Science (Biological Sciences, Chemistry, or Earth Sciences). An option is available for candidates in the elementary (grades 1-5) program to address certification requirements for both elementary as well as special education in mild/moderate disabilities for the same grade level. The Integrated to Merged program option requires candidates to complete a student teaching with both general and special education experiences and complete additional PRAXIS examinations (<https://www.ets.org/praxis>) and performance requirements for special education certification.

The undergraduate teacher education program of study is divided into four tiers, each associated with a specific block of coursework and set of related field experiences. As the candidate moves from one tier to the next, the scope of the content and field work becomes more complex. Candidate progression from one tier to the next is dependent upon satisfaction of certain criteria, including satisfactory completion of required coursework, satisfactory completion of required field experiences, and meeting all candidate assessment requirements specified for that particular phase (tier) of the program of study. Throughout the program of study, candidates develop a professional portfolio that contains artifacts resulting from coursework and field activities. The candidate organizes the various artifacts as evidence that specific program competencies have been met. Thus, candidate performance is measured via course grades as well as authentic evidence that knowledge, skills, and dispositions related to effective education can be demonstrated in school and classroom settings.

### **Admission to and Retention in the College of Education and Human Development (Change from Tier I to Tier II)**

To be admitted to the College of Education and Human Development, a student must have met the following criteria:

1. Completed a minimum of 24 hours of coursework with at least a 2.2 grade-point average.
2. Completed a Candidate Acknowledgement Form.
3. Received a Curriculum Program Sheet approved by an Academic Counselor in the College of Education and Human Development.
4. Successfully completed Education 1010 (Elementary candidates), including associated field activities.
5. Successfully completed Education 2204 (Secondary candidates), including associated field activities.

All candidates in a program of study resulting in certification must also be admitted to a teacher education program (see requirements below). All candidates must submit official transcripts from each college and university attended. One transcript with all transfer credits is not acceptable. This is a requirement for all candidates pursuing initial certification.

The Teacher Education Review and Retention Committee reserves the right to review the candidate's total academic record, evidence of knowledge, skills, and dispositions and other qualifications as they relate to the candidate's potential as an effective teacher.

In view of its responsibility to the teaching profession, the College of Education and Human Development will continuously evaluate the qualifications of a candidate to determine his or her suitability to continue in a teacher education program.

Each candidate is held responsible for knowing degree requirements, for enrolling in courses that fit into his or her degree program, and for taking courses in the proper sequence to ensure orderly progression of work.

Note: Independent study/substitution courses are approved only under extenuating circumstances.

Independent study/substitutions must be approved by the Assistant Dean prior to enrollment in the independent study/substitution course. Candidates will be allowed a maximum of 3 hours of independent study/substitution courses within the degree program.

The candidate is also held responsible for knowing University regulations regarding the standard of work required to continue at the University, as well as the regulations dealing with scholastic probation and enforced withdrawal. Please check [University Regulations](#) for further information.

### **Admission to and Retention in the Teacher Education Program (Change from Tier II to Tier III)**

In addition to the requirements and regulations stated in Undergraduate Teacher Certification: Admission to and Retention in the College of Education and Human Development, applicants for admission to a teacher education program must:

1. Have a grade-point average of 2.5 or higher for a minimum of 36 credits.
2. Take and receive passing scores on the PRAXIS I or ACT (22 Composite Score) or SAT (1030 Verbal & Math). The College office must have official scores.
3. Complete an application to the Teacher Education Program.

4. Complete Education 2100, 2200 and 2204 (secondary requirement) and associated field activities or their equivalents.
5. Pass the Core Performance Assessment for the Teacher Education Program.
6. Complete dispositions review with a satisfactory rating.
7. Complete English 1158 with a grade of "C" or higher with credit in English 1157.
8. Complete a mathematics course at or above the 1000 level approved by the College of Education and Human Development.
9. Report required field experience hours.
10. Complete individualized prescriptive plan if applicable.

## Requirements for Field Experience

Teacher education candidates complete a variety of field activities as they progress through the program of study. The field activities provide opportunities for candidates to demonstrate skills associated with effective teaching in diverse school and classroom settings. Each of the four tiers in the program requires a specific minimum number of field experience hours and completed field activities which must be reported. Student Teaching for this program of study must be completed in one of the following parishes: Jefferson, Orleans, Plaquemines, St. Bernard, St. Charles, or St. Tammany.

Specific information on field experience requirements may be found at the college web site at [www.uno.edu/coehd](http://www.uno.edu/coehd).

### Requirements for Student Teaching (Change from Tier III to Tier IV)

This is the last semester of the degree program. Application for student teaching must be submitted to the Office of Field Experiences and Clinical Practice during Tier III one semester prior to beginning the student teaching semester (Tier IV). Candidates expecting to student teach in the fall semester must apply on or before January 1. Candidates expecting to student teach in the spring semester must apply on or before August 1.

Candidates in Elementary and Integrated to Merged Elementary will only be permitted to enroll in student teaching (9 hours) and EDUC 4000 (3 hours) during the student teaching semester. Candidates in Secondary Education will be permitted to enroll in student teaching (9 hours) and one methods course (3 hours) during the student teaching semester. (see curriculum sheet for course applicable to certification area). Candidates are permitted to schedule student teaching when they have met the following requirements:

1. Completion of all other courses in the certification and degree program except for student teaching and EDUC 4000 (Elementary Education.) or the second methods course appropriate to the secondary certification area which must be taken concurrently with student teaching.
2. The attainment of senior standing in a Teacher Education Program in the College of Education and Human Development with a minimum grade point average of 2.5.
3. Completion of all courses in professional education with a grade of "C" or higher. A minimum grade of "C" is required for all courses in the Elementary programs. Candidates in secondary education must also complete all courses in the major teaching field with a grade of "C" or higher. Candidates must meet or exceed GPA requirements for their specific certification area.
4. Pass Tier III performance requirements for the certification area pursued.
5. Complete disposition review with a satisfactory rating.
6. Approval of the Director of Field Experiences.
7. Transfer candidates must have completed all Tier III course-work in residence at UNO.
8. Complete individualized prescriptive plan if applicable
9. Pass Praxis II Content Area and Principles of Learning and Teachings exams prior to student teaching. Must pass both exams by October 15 (previous Fall semester) if student teaching in a spring semester and March 15 (previous Spring semester) if student teaching in a fall semester.

### Requirements for Program Completion and Graduation

A candidate must meet all the requirements for a degree outlined in one catalog. A candidate who breaks enrollment (either voluntarily or by compulsion) for one semester is subjected to the catalog in force at the time of

re-entry.

Candidates pursuing degree programs that include Louisiana teacher certification should note that certification requirements are mandated by the Louisiana Board of Elementary and Secondary Education. When the State Board makes changes in certification requirements, the content of associated degree programs change accordingly. For this reason, candidates in the College of Education and Human Development are expected to maintain close communication about degree and certification requirements through a College Academic Counselor or Faculty Advisor throughout their program of study. Up to date curriculums may be found on the college web site [www.uno.edu/coehd](http://www.uno.edu/coehd).

A candidate may graduate from the College of Education and Human Development upon satisfactory fulfillment of the following requirements:

1. Completion of the general degree requirements of the University.
2. Completion of the requirements for a bachelor's degree in either elementary, or secondary education.
3. Performance at the acceptable or higher level on all program assessments and demonstration of all required performances and dispositions via a successful review of a professional portfolio and related evidence.
4. For candidates in elementary education:
  - a. A minimum grade of "C" in all courses.
  - b. Achievement of an overall grade point average of 2.5.
  - c. Meet or exceed content/performance GPA for specific content area.
5. For candidates in secondary and elementary secondary education:
  - a. Minimum grade of "C" in each course in professional education and in each course in the academic content area(s).
  - b. Achievement of an overall grade-point average of 2.5 and a 2.0 grade-point average in professional education and the academic content area(s).
  - c. Meet or exceed content/performance GPA for specific content area.

## Louisiana Teacher Certification

In addition to the graduation requirements listed above, a candidate must meet the following requirements of the State of Louisiana in order to be eligible for a Louisiana teacher's certificate.

1. Be admitted to and graduate from a state approved teacher education program. (Teacher education programs in the College of Education and Human Development at The University of New Orleans are state approved).
2. Achieve a minimum grade point average of 2.5.
3. Pass all specified PRAXIS Series Examinations.
4. Receive a recommendation for certification by the Assistant Dean in the College of Education and Human Development.

### Transfer Students

Transfer credits will be valid for degree completion if the course content matches the content and/or performances of a course in the College of Education and Human Development curriculum. A grade lower than a C will not be accepted for degree credit in the College of Education and Human Development. Transfer credit will not be awarded for Tier III coursework. Any credit taken more than 5 years will not be accepted. The College requires the validation of credits earned more than five years prior to a candidate's admission to the College in order to approve the transfer of credits into a degree program. There is no guarantee that the credits will be accepted. Candidates are required to enter artifacts into Live Text to document their performance of competencies aligned with transfer coursework. Candidates transferring into the program should also note the provisions in the section, "Requirements for Student Teaching."

### Honors Degree in Education

An Honors Degree in Education is available to qualified majors and open (but not limited to) candidates enrolled in University Honors. The Honors Degree in Education is available for students majoring in Elementary, Elementary Integrated to Merged and Secondary Education.

To graduate with Honors in Education, education majors must successfully complete the following:

1. Fulfill the usual requirements for education majors.
2. Maintain a minimum cumulative grade-point average of 3.5 in professional courses and 3.5 overall.
3. Maintain a 3.5 grade-point average in teaching major.
4. Establish an Honors Advisory Committee consisting of two College of Education and Human Development faculty members and one faculty member from the teaching major.
5. Complete a minimum of three semester hours in course work approved by the Honors Advisory Committee.
6. Complete successfully a six-hour Honors Thesis (Curriculum and Instruction 3999) approved by the Honors Advisory Committee.
7. Perform satisfactorily in an oral examination of an honors thesis in education.

### Requirements for Bachelor's Degree in Elementary Education Certification in Grades One Through Five

A grade below "C" will not be accepted for candidates seeking Elementary certification.

The curriculum in Elementary Education has five components:

- general education,
- focus area,
- knowledge of the learner and the learning environment,
- methodology and teaching, and
- special education.

### Student Learning Outcomes

#### Bachelor of Science in Elementary Education

1. Demonstrate content knowledge in Elementary Education
2. Demonstrate appropriate dispositions to be an effective elementary teacher.
3. Demonstrate ability to design, implement and evaluate effective elementary curriculum and instruction.

### Curriculum in Elementary Education

#### Bachelor of Science in Elementary Education

General Education Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
English		Humanities	
ENGL 1157	3	HIST (1001, 1002, 2501, 2502 or 2601)	3
ENGL 1158 or 1159 <sup>1</sup>	3	ENGL Literature	6
Mathematics		Social Sciences	
MATH 1021	3	Social Sciences elective <sup>2</sup>	6
MATH 1023	3	Arts	
Science		Arts elective <sup>4</sup>	3
BIOS <sup>3</sup>	3		
BIOS or Physical Science <sup>3</sup>	6		

		Total	39
--	--	-------	----

Other Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
EDCI 3400	3	EDLS 3100	3
EDHP 2320	3	MATH 1115	3
EDSP 3610	3	MATH 2314	3
EDUC 1010	3	Science Elective <sup>5</sup>	6
EDUC 2100	3	Social Sciences <sup>2</sup>	3
EDUC 2200	3		
		Total	36

Course Requirements for Major			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
EDCI 3140	3	EDCI 3540	3
EDCI 3150	3	EDUC 3000	3
EDCI 3160	3	EDUC 3002	0
EDCI 3340	3	EDUC 3100	3
EDCI 3410	3	EDUC 3110	3
EDCI 3425	3	EDUC 4000 Concurrent enrollment with EDUC 4910	3
EDCI 3440	3	EDUC 4910 Concurrent enrollment with EDUC 4000	9
		Total	45

Total Credit Hours Required	Credit Hours
	120

- "C" or better required
- Select from ECON, GEOG, POLI, PSYC or SOC. 3 hours must be 2000 level course.
- 6 hour sequence in one science. Select from BIOS, CHEM, EES, PHYS. 3 hours must be BIOS.
- FTA (theatre/dance/film related course, FA or MUS)
- Science Elective (BIOS, CHEM, EES, PHYS)

Non-Coursework
Course Name/ #
Passing scores on appropriate PRAXIS Exams
Minimum grade of "C" in all courses

Minimum GPA of 2.5 for all undergraduate coursework
-----------------------------------------------------

**Recommended Four-Year Plan of Study**  
**Bachelor of Science in Elementary Education Grade 1 - 5**

Four Year Plan of Study			
First Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ENGL 1157	3	ENGL 1158 or 1159	3
MATH 1115	3	MATH 1021 or 1023	3
Social Science <sup>1</sup>	3	Science <sup>3</sup>	3
Arts <sup>2</sup>	3	HIST (1001, 1002, 2501, 2502 or 2601)	3
EDUC 1010	3	EDUC 2100	3
UNIV 1001 <sup>4</sup>	1		3
Total Hours	16	Total Hours	15

Second Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ENGL (Literature)	3	Science <sup>3</sup>	3
MATH 1023 or 1021	3	ENGL Literature	3
Science <sup>3</sup>	3	EDHP 2320	3
EDSP 3610	3	EDCI 3400	3
EDUC 2200	3	MATH 2314	3
Total Hours	15	Total Hours	15

Third Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
EDCI 3410	3	EDCI 3150	3
EDCI 3140	3	EDCI 3160	3
EDUC 3000	3	EDCI 3425	3
Science <sup>3</sup>	3	EDUC 3100	3
EDLS 3100	3	Social Science <sup>1</sup>	3

Social Science <sup>1</sup>	3		
Total Hours	18	Total Hours	15

Fourth Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
EDCI 3340	3	EDUC 4000	3
EDCI 3440	3	EDUC 4910	9
EDCI 3540	3		
EDUC 3002	0		
EDUC 3110	3		
Science <sup>3</sup>	3		
Total Hours	15	Total Hours	12
Total Degree Hours			121

1. Social Sciences (ECON, GEOG, POLI, PSYC, or SOC) One course MUST be at the 2000 level
2. Arts FTA (theatre/dance/film related courses), FA or MUS: all courses
3. Science (6 hr sequence in one science. Select from BIOS, CHEM, EES or PHYS. 3 hrs. must be BIOS)
4. Required for all first-time full-time students.

### College of Education and Human Development - Elementary Education and Mild Moderate Disabilities

#### Requirements for Bachelor's Degree in Elementary Education

Integrated to Merged Approach with Certification in General Education and Special Education Mild/Moderate Disabilities Grades One Through Five

A grade below "C" will not be accepted for candidates seeking Integrated to Merged Elementary certification.

The curriculum in the Integrated to Merged Elementary option has five components:

- general education,
- focus area,
- knowledge of the learner and the learning environment
- methodology and teaching, and
- special education.

#### Student Learning Outcomes

##### Bachelor of Science in Elementary Education and Mild Moderate Disabilities (Integrated to Merged Approach)

1. Demonstrate knowledge in Special Education in Mild/Moderate disabilities
2. Demonstrate appropriate dispositions to be an effective special educator in Mild/Moderate disabilities
3. Demonstrate the ability to design, deliver, and evaluate instruction to impact student learning

Curriculum in Bachelor of Science in Elementary Education and Mild Moderate Disabilities  
(Integrated to Merged Approach)

General Education Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
English		Humanities	
ENGL 1157	3	HIST (1001, 1002, 2501, 2502 or 2601)	3
ENGL 1158 or 1159 <sup>1</sup>	3	ENGL Literature	6
Mathematics		Social Sciences	
MATH 1021	3	Social Sciences Elective <sup>2</sup>	6
MATH 1023	3	Arts	
Science		Arts Elective <sup>4</sup>	3
BIOS <sup>3</sup>	3		
BIOS or Physical Science <sup>3</sup>	6		
		Total	39

Other Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
EDCI 3400	3	EDLS 3100	3
EDSP 3610	3	MATH 1115	3
EDUC 1010	3	MATH 2314	3
EDUC 2100	3	Science Elective <sup>5</sup>	6
EDUC 2200	3	Social Sciences <sup>2</sup>	3
		Total	33

Course Requirements for Major			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
EDCI 3140	3	EDSP 3650	3
EDCI 3150	3	EDSP 3660	3
EDCI 3160	3	EDUC 3000	3
EDCI 3340	3	EDUC 3002	0
EDCI 3410	3	EDUC 3003	0
EDCI 3425	3	EDUC 3100	3
EDCI 3440	3	EDUC 3110	3
		EDUC 4000 Concurrent enrollment	

EDSP 3620	3	with EDUC 4970	3
EDSP 3640	3	EDUC 4970 Concurrent enrollment with EDUC 4000	9
		Total	54

Total Credit Hours Required	Credit Hours
	126

Non-Coursework
Course Name/ #
Passing scores on appropriate PRAXIS Exams
Minimum grade of "C" in all courses
Minimum GPA of 2.5 for all undergraduate coursework

- "C" or better required
- Select from ECON, GEOG, POLI, PSYC or SOC. 3 hours must be 2000 level course.
- 6 hour sequence in one science. Select from BIOS, CHEM, EES, PHYS. 3 hours must be BIOS.
- FTA (theatre/dance/film related course, FA or MUS)
- Science Elective (BIOS, CHEM, EES, PHYS)

Refer to "Course Offerings and Prerequisite Handout" when planning class schedule each semester.

**Recommended Four-Year Plan of Study**

**Bachelor of Science in Elementary/Mild Moderate Education Grades 1-5**

Four Year Plan of Study			
First Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ENGL 1157	3	ENGL 1158 or 1159	3
MATH 1115	3	MATH 1021 or 1023	3
Social Science <sup>1</sup>	3	Science <sup>3</sup>	3
Arts <sup>2</sup>	3	Humanities <sup>4</sup>	3
EDUC 1010	3	EDUC 2100	3
UNIV 1001	1		
Total Hours	16	Total Hours	15

Second Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours

ENGL Literature	3	Science <sup>3</sup>	3
MATH 1023 or 1021	3	Humanities <sup>4</sup>	3
Science <sup>3</sup>	3	Social Science <sup>1</sup>	3
Social Science <sup>1</sup>	3	EDCI 3400	3
EDUC 2200	3	EDSP 3610	3
		MATH 2314	3
<b>Total Hours</b>	<b>15</b>	<b>Total Hours</b>	<b>18</b>

Third Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
EDCI 3410	3	EDCI 3150	3
EDCI 3140	3	EDCI 3160	3
EDSP 3620	3	EDCI 3425	3
EDUC 3000	3	EDUC 3100	3
EDUC 3110	3	EDSP 3640	3
Science <sup>3</sup>	3	Science <sup>3</sup>	3
<b>Total Hours</b>	<b>18</b>	<b>Total Hours</b>	<b>18</b>

Fourth Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
EDCI 3340	3	EDUC 4000	3
EDCI 3440	3	EDUC 4970	9
EDSP 3650	3		
EDSP 3660	3		
EDUC 3002	0		
EDUC 3003	0		
Humanities <sup>4</sup>	3		
<b>Total Hours</b>	<b>15</b>	<b>Total Hours</b>	<b>12</b>
<b>Total Degree Hours</b>			<b>127</b>

1. Social Sciences (ECON, GEOG, POLI, PSYC, or SOC) One course MUST be at the 2000 level
2. Arts FTA (theatre/dance/film related courses), FA or MUS: all courses
3. Science (6 hr sequence in one science. Select from BIOS, CHEM, EES or PHYS. 3 hrs. must be BIOS )
4. Humanities (English Literature, EDLS 3100 and HIST 1001, 1002, 2501, 2502 or 2601)

## College of Education and Human Development

## Requirements for Bachelor's Degree in Secondary Education

Certification in Grades 6 - 12

The curricula in secondary education have five components:

1. general education,
2. focus area(s),
3. knowledge of the learner and the learning environment,
4. methodology and teaching, and
5. special education.

Secondary (Grades 6 - 12) certification are as offered include:

1. Biology
2. Chemistry
3. Earth Science
4. English
5. Math
6. Social Studies

## Student Learning Outcomes

## Bachelor of Science in Secondary Education

The student completing the Bachelor of Science in Secondary Education will demonstrate the following:

1. Content knowledge by passing the appropriate Praxis for certification prior to completion of student teaching.
2. Appropriate dispositions for teaching by scoring at "satisfactory" or above on the dispositions rubric.
3. Appropriate instructional performance (ability to design, implement and evaluate effective curriculum and instruction) by scoring "acceptable" or better on the Teacher Work Sample.

## Curriculum in Secondary Teaching - Biology

## Bachelor of Science in Secondary Teaching - Biology

General Education Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
English		CHEM 1017	3
ENGL 1157	3	Humanities	
ENGL 1158 or 1159 <sup>1</sup>	3	Humanities Electives <sup>2</sup>	6
Mathematics		ENGL Literature	3
MATH 1125	3	Social Sciences	
MATH 1116 or 1126	3	Social Sciences elective <sup>3</sup>	6
Science		Arts	
BIOS 1073	3	Arts elective <sup>4</sup>	3
BIOS 1083	3		
		Total	39

Certification Content Area		Other Requirements	
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
BIOS 1071	1	BIOS Elective (3000 level or above)	6
BIOS 1081	1	CHEM 1007	1
BIOS 2014	4	CHEM 1008	1
BIOS 2114	4	CHEM 1018	3
BIOS 2741	1	EDHS 1110	3
BIOS 2743	3	EDSP 3610	3
BIOS 3854	4	EDUC 2100	3
BIOS 3653	3	EDUC 2204	4
		Total	45

Course Requirements for Major			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
EDCI 3310 Concurrent enrollment in EDCI 3311	3	EDSP 3620	3
EDCI 3311 Concurrent enrollment in EDCI 3310	1	EDUC 3000	3
EDCI 4201 Concurrent enrollment in EDCI 4250	1	EDUC 3007	0
EDCI 4250 Concurrent enrollment in EDCI 4201	3	EDUC 3100	3
EDCI 4251 Concurrent enrollment in EDUC 4920	3	EDUC 3110	3
EDCI 4432	3	EDUC 4920 Concurrent enrollment in EDCI 4251	9
EDCI 4620	3		
		Total	38

Total Credit Hours Required	Credit Hours
	122

Non-Coursework
Passing scores on appropriate PRAXIS Exams
Minimum grade of "C" in all courses for certification content area
Minimum GPA of 2.5 for all undergraduate coursework

1. "C" or better required
2. Humanities Electives - FTA, ENGL, Foreign Language, HIST, PHIL, or WGS. Check General Education Courses to confirm what courses fulfill this requirement
3. Select from ECON, GEOG, POLI, PSYC or SOC. 3 hours must be 2000 level course. Check General Education Courses to confirm what courses fulfill this requirement
4. FTA (Theatre/dance/film related course, FA or MUS). Check General Education Courses to confirm what courses fulfill this requirement

### Recommended Four-Year Plan of Study

#### Bachelor of Science in Secondary Teaching - Biology

Four Year Plan of Study			
First Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ENGL 1157	3	ENGL 1158 or 1159	3
MATH 1125	3	MATH 1116 or 1126	3
EDUC 2204	4	EDUC 2100	3
Arts <sup>1</sup>	3	BIOS 1071	1
Humanities <sup>2</sup>	3	BIOS 1073	3
UNIV 1001 <sup>4</sup>	1	Social Science <sup>3</sup>	3
Total Hours	17	Total Hours	16

Second Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ENGL Literature	3	Humanities <sup>2</sup>	3
BIOS 1081	1	CHEM 1008	1
BIOS 1083	3	CHEM 1018	3
CHEM 1007	1	BIOS 2014	4
CHEM 1017	3	EDHS 1110	3
EDSP 3610	3	EDCI 3310/3311	3/1
Total Hours	14	Total Hours	18

Third Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
EDSP 3620	3	BIOS 3854	4
EDUC 3000	3	BIOS 3653	3
EDUC 3100	3	EDCI 4250/4201	3/1

BIOS 2114	4	EDUC 3110	3
BIOS 2741	1	Social Science <sup>3</sup>	3
BIOS 2743	3		
Total Hours	17	Total Hours	17

Fourth Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
EDCI 4432	3	EDCI 4251	3
EDCI 4620	3	EDUC 4920	9
EDUC 3007	0		
BIOS (Elective) 3000+	3		
BIOS (Elective) 3000+	3		
Total Hours	12	Total Hours	12
Total Degree Hours			123

1. Arts FTA (theatre/dance/film related courses), FA or MUS: all courses
2. Humanities (English Literature, EDLS 3100 and HIST 1001, 1002, 2501, 2502 or 2601)
3. Social Sciences (ECON, GEOG, POLI, PSYC, or SOC) One course MUST be at the 2000 level
4. Required for all first-time full-time students.

Curriculum in Secondary Teaching - Chemistry Bachelor of Science  
Bachelor of Science in Secondary Teaching - Chemistry

General Education Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
English		CHEM 1018	3
ENGL 1157	3	Humanities	
ENGL 1158 or 1159 <sup>1</sup>	3	Humanities Electives <sup>2</sup>	6
Mathematics		ENGL Literature	3
MATH 1125	3	Social Sciences	
MATH 1116 or 1126	3	Social Sciences elective <sup>3</sup>	6
Science		Arts	
BIOS 1073 or 1083	3	Arts elective <sup>4</sup>	3
CHEM 1017	3		
		Total	39

Certification Content Area		Other Requirements	
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
CHEM 1007	1	CHEM Elective (3000 level or above) <sup>5</sup>	9
CHEM 1008	1	EDHS 1110	3
CHEM 2025	3	EDSP 3610	3
CHEM 2017 and CHEM 3018	2	EDUC 2100	3
CHEM 2117	3	EDUC 2204	4
CHEM 2217	3	EES Elective	3
CHEM 3218	3	PHYS 1001	3
		Total	44

Course Requirements for Major			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
EDCI 3310 Concurrent enrollment in EDCI 3311	3	EDSP 3620	3
EDCI 3311 Concurrent enrollment in EDCI 3310	1	EDUC 3000	3
EDCI 4201 Concurrent enrollment in EDCI 4250	1	EDUC 3007	0
EDCI 4250 Concurrent enrollment in EDCI 4201	3	EDUC 3100	3
EDCI 4251 Concurrent enrollment in EDUC 4920	3	EDUC 3110	3
EDCI 4432	3	EDUC 4920 Concurrent enrollment in EDCI 4251	9
EDCI 4620	3		
		Total	38

Total Credit Hours Required	Credit Hours
	121

Non-Coursework
Passing scores on appropriate PRAXIS Exams
Minimum grade of "C" in all courses for certification content area
Minimum GPA of 2.5 for all undergraduate coursework

1. "C" or better required
2. Humanities Electives - FTA, ENGL, Foreign Language, HIST, PHIL, or WGS. Check General Education Courses to confirm what courses fulfill this requirement
3. Select from ECON, GEOG, POLI, PSYC or SOC. 3 hours must be 2000 level course. Check General Education Courses to confirm what courses fulfill this requirement
4. FTA (theatre/dance/film related course, FA or MUS). Check General Education Courses to confirm what courses fulfill this requirement
5. Recommended: CHEM 3027, 3110, 3411, 3610 or 4210

### Recommended Four-Year Plan of Study

#### Bachelor of Science in Secondary Teaching - Chemistry

Four Year Plan of Study			
First Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ENGL 1157	3	ENGL 1158 or 1159	3
MATH 1125	3	MATH 1116 or 1126	3
EDUC 2204	4	EDUC 2100	3
Arts <sup>1</sup>	3	CHEM 1007	1
Humanities <sup>2</sup>	3	CHEM 1017	3
UNIV 1001 <sup>4</sup>	1	Social Science <sup>3</sup>	3
Total Hours	17	Total Hours	16

Second Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ENGL Literature	3	CHEM 2117	3
BIOS 1073 or 1083	3	CHEM 2217	3
CHEM 1008	1	EDHS 1110	3
CHEM 1018	3	EDCI 3310/3311	3/1
EDSP 3610	3	PHYS 1001	3
Social Science <sup>3</sup>	3		
Total Hours	16	Total Hours	16

Third Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
CHEM 2025	3	CHEM 2017	1
CHEM 3218	3	CHEM (Elective) 3000+	3
EDSP 3620	3	EES (Elective)	3

EDUC 3000	3	EDCI 4250/4201	3/1
EDUC 3100	3	EDUC 3110	3
		CHEM 3018	1
Total Hours	15	Total Hours	15

Fourth Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
CHEM (Elective) 3000+	3	EDCI 4251	3
CHEM (Elective) 3000+	3	EDUC 4920	9
EDCI 4432	3		
EDCI 4620	3		
EDUC 3007	0		
Humanities <sup>2</sup>	3		
Total Hours	15	Total Hours	12
Total Degree Hours			122

1. Arts FTA (theatre/dance/film related courses), FA or MUS: all courses
2. Humanities (EDLS 3100 and HIST 1001, 1002, 2501, 2502 or 2601)
3. Social Science (ECON, GEOG, POLI, PSYC, or SOC) One course MUST be at the 2000 level
4. Required for all first-time full-time students.



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University Catalogs

August 2014 Catalog

# College of Engineering

## Norman L. Whitley, Interim Dean

The College of Engineering offers undergraduate degree programs in Civil Engineering, Electrical Engineering, Mechanical Engineering, and Naval Architecture and Marine Engineering. These curricula provide an opportunity for professional career education in the traditional fields of engineering, and preparation for industrial employment or graduate studies.

The undergraduate degree programs in engineering provide a broad engineering education in preparation for:

1. Professional employment, mainly as civil, electrical, mechanical engineering, naval architecture and marine engineering in design, development, production, operation, and sales.
2. Graduate study in the various fields of engineering and the physical sciences.

Emphasis is placed on fundamentals in the basic fields followed by applications in the areas of engineering design and planning.

## Accreditation

The following undergraduate programs in engineering offered by the College of Engineering, University of New Orleans, are accredited by the Engineering Accreditation Commission of ABET, [www.abet.org](http://www.abet.org).

Bachelor of Science Degree in:

<a href="#">Civil Engineering</a>	<a href="#">Mechanical Engineering</a>
<a href="#">Electrical Engineering</a>	<a href="#">Naval Architecture and Marine Engineering</a>

## Admission to the College of Engineering

### First-time freshmen

First-time freshmen admitted to the university will be admitted to the College of Engineering with an engineering classification provided they:

1. Qualify for, or have credit in, a college-level calculus course (e.g., MATH 2111). Qualification for a first course in college-level calculus requires a minimum MATH ACT score of 28 or a minimum MATH SAT score of 630.
2. Satisfy all other university admission standards.

First-time freshmen admitted to the university that are not eligible for direct entry into the College of Engineering may enter into the college with a pre-engineering classification provided they:

1. Qualify for or have credit in a college-level algebra course (e.g., MATH 1125). Qualification for a college-level algebra course requires a minimum MATH ACT score of 22 or a minimum MATH SAT score of 520.
2. Have a composite GPA/ MATH ACT score (GPA/MATH ACT score= high school GPA\*10 + MATH ACT score) of 53 or higher. This requirement is shown in tabular form in the PRE-ENGR CLASSIFICATION TABLE below. For a given high school GPA range, one can determine the minimum MATH ACT score or the minimum MATH SAT score required for entry into the college as a pre-engineering student.

#### Pre-Engineering Classification Table for First-Time Freshmen

High School GPA	Minimum Math ACT Score (Math SAT Score)
3.100 or above	22 (520)
3.000-3.099	23 (540)
2.900-2.999	24 (560)
2.800-2.899	25 (570)
2.700-2.799	26 (590)
2.600-2.699*	27 (610)

**\*A first-time freshman with a high school GPA below a 2.600 cannot enter into the college as a pre-engineering student.**

First-time freshman admitted to the university who do not have a High School GPA (e.g. if they have a GED) will be admitted to the College of Engineering based solely on the Math ACT or SAT score. These students will be admitted as pre-engineering students if their ACT (SAT) is between 22 (520) and 27 (610), inclusive, or as engineering students if their Math ACT (SAT) is 28 (630) or higher.

3. Satisfy all other university admission standards.

The pre-engineering classification begins with the letter "P" (e.g., pre-electrical engineering is PENEE). While classified as a pre-engineering student, he or she will not be allowed to take engineering courses (i.e., ENCE, ENEE, ENME, ENGR, and NAME courses) above the 1000 level.

Students remain in the Pre-Engineering classification until:

1. they are eligible for a first course in calculus, and,
2. have a cumulative Pre-Engineering GPA of 2.25 or higher (the Pre-Engineering GPA is computed based on all grades in physics courses, chemistry courses, engineering courses, courses in mathematics that are prerequisites to MATH 2111, and mathematics calculus courses.)

If a student fails to qualify for a first course in calculus or does not have a cumulative Pre-Engineering GPA of 2.25 or higher by the end of the semester in which 36 credit hours are attempted (*W*'s, *SUS*'s, and *XF*'s count toward the number of credit hours attempted), the student will be removed from the College of Engineering; there are no exceptions.

## Transfer Students

Students transferring from another university or college are considered Transfer Students. The following admission regulations apply to transfer students:

1. Transfer students with fewer than 24 transferable hours must meet the first-time freshman engineering requirements. In addition, they:
  - a. Must have earned at least a 2.25 Transfer GPA on all coursework, and,
  - b. Satisfy all other university admission standards.
2. Transfer students with 24 or more but fewer than 36 transferable hours can be admitted to the College of Engineering as Pre-Engineering students provided they:
  - a. Qualify for a pre-calculus trigonometry course (e.g., MATH 1126),

- b. Have earned a 2.5 or higher Transfer GPA, and,
  - c. Satisfy all other university admission standards.
3. Transfer students with 24 or more but fewer than 36 transferable hours can be directly admitted to the College of Engineering with an Engineering classification provided they:
  - a. Qualify for or have credit in a college-level calculus course (e.g., MATH 2111), and,
  - b. Satisfy all other university admission standards.
4. Transfer students with 36 or more transferable hours may only be admitted to the College of Engineering with the Engineering classification and must satisfy the following:
  - a. Qualify for or have credit in a college-level calculus course (e.g., MATH 2111), and,
  - b. Satisfy all other university admission standards.

If a transfer student does not qualify for entry into the College with an engineering classification, he or she must be admitted to another college until the requirements for entry into the College with the engineering classification are met. Once these requirements are met, the student should go to the College of Engineering office and complete the Engineering Transferal form to facilitate this transfer process.

Engineering orientations are offered in conjunction with the freshmen and transfer student orientations.

## Requirements for the Baccalaureate Degree

The degree of Bachelor of Science in Engineering may be granted upon satisfactorily meeting the following requirements:

1. Completion of a program of study selected from the following four fields: Civil Engineering, Electrical Engineering, Mechanical Engineering, and Naval Architecture and Marine Engineering.
2. Approval of all electives by the department.
3. Completion of all University General Degree Requirements.
4. Obtain a cumulative grade-point average of 2.0 ("C" average) in:
  - a. the Cumulative GPA- all courses attempted anywhere, at any time (this requirement includes all transfer work, whether applicable to a particular degree or not);
  - b. the UNO Cumulative GPA- all work taken at UNO;
  - c. the Major GPA- all work in the Major subject (i.e., ENCE, ENEE, ENME, or NAME).

The four major engineering disciplines curricula is continually evolving, therefore students are strongly encouraged to complete degree requirements as stated in an official curriculum that is assigned as the students Catalog Year.

Please check University Regulations for Catalog Year information.

The latest curriculum will always be the one most "up-to-date," reflecting technological developments and criteria established by ABET, the national accrediting board for engineering curricula.

At the beginning of the semester prior to graduation (e.g. the Fall semester, if planning to graduate in Spring), the student should complete a Graduation Verification Sheet with the College Advisor. (A student in the Electrical Engineering curriculum must complete this verification process two semesters prior to graduation.) The student must have it approved by his/her Department Chair or Associate Chair. This process ensures the student's final transcript meets all requirements for the baccalaureate degree in the chosen field. It should, however, be noted it is the student's responsibility to ensure all the requirements for graduation are met.

## Engineering Academic Probation

If an engineering student (i.e., a student with the engineering classification as opposed to the pre-engineering classification) earns less than a 2.0 GPA in any given semester on his or her Term GPA, Cumulative GPA, UNO

GPA, Major GPA, that student will be placed on Engineering Academic Probation. Engineering Academic Probation is not the same University Academic Probation. As such, the probation rules are different. While on Engineering Academic Probation, a student will not be allowed to enroll in more than 12 credit hours in Spring or Fall and 6 hours in Summer (fewer at the Chair's or Dean's discretion). A student on Engineering Academic Probation must receive approval from the departmental Chair before enrolling in any course that counts toward the engineering degree. The student will remain on Engineering Academic Probation until his or her Cumulative GPA, UNO GPA, and Major GPA are all at least a 2.0. Please see University Regulations for University probation rules.

## Scholastic Drop from Engineering

A student with the engineering classification earning less than a 2.0 GPA on his or her Cumulative GPA, UNO GPA, or Major GPA, for three consecutive Fall/Spring semesters will be dropped from the College of Engineering.

While a pre-engineering student cannot be placed on Engineering Academic Probation, if a pre-engineering student fails to qualify for a first course in calculus OR does not earn a Cumulative pre-engineering Major GPA of 2.25 or higher by the end of the semester in which 36 credit hours are attempted, that student will be removed from the College of Engineering (the Pre-Engineering GPA is computed based on all grades in physics courses, chemistry courses, engineering courses, courses in mathematics that are pre-requisites to MATH 2111, and mathematics calculus courses.) The grades of W, SUS, and XF count toward the number of credit hours attempted. There are no exceptions.

## Dual-Degree Program with Xavier, SUNO, Loyola, Dillard

The University of New Orleans (UNO) has established a cooperative dual degree also known as the 3+2 Program in Physics/Engineering. The Program is five to 5.5 years in length, depending on the Program, and leads to a Bachelor of Science degree in Physics from the cooperating university and a Bachelor of Science in Engineering degree from UNO. Students attend the cooperating university for three years, majoring in physics, and then transfers to UNO for two additional years, concentrating in one of the four professional engineering degree programs: Civil, Electrical, Mechanical, or Naval Architecture and Marine Engineering. Students are awarded the two baccalaureate degrees upon completion of the five or 5.5 year program.

### Program Requirements

During the first three years of the program the student takes basic arts and sciences courses. The student is then eligible to pursue UNO's B.S. in engineering curricula. (Admission to the program, at the UNO College of Engineering is required.) Students will not be permitted to graduate under catalogs dated prior to the date of acceptance to UNO program. At the time of admission the student will receive advising necessary to direct and complete the program. The student must be admitted to UNO and to the College of Engineering (not pre-engineering) for the last 60 hours of the engineering degree. Cross-registered courses taken before admission to the College of Engineering do not count in the 60 hours. Students not admitted before the last 60 hours will be considered as transfer students, not as dual degree or 3+2 students. General degree requirements must be completed before the baccalaureate degrees can be awarded. For details, contact the College of Engineering office at Room EN 910, 2000 Lakeshore Drive, New Orleans, LA 70148, (504.280.6328).

Credits gained at the two institutions will be mutually accepted, if they meet the requirement at each institution. Engineering courses completed at UNO will be counted, in part, as electives in the physics program, and physics courses taken will be counted, in part, as electives in the UNO engineering programs. To be eligible for UNO's B.S. in engineering degree, junior-year students must have a 2.5 grade-point average (on a 4-point system). Students must earn a grade of 2.0 or better at UNO in all science, mathematics and engineering courses.

## Academic Program Planning

Students must schedule advising sessions at regular intervals to develop a Program of Study within the constraints of the various options which is best suited to accomplish their goals for a professional career in

engineering or for advanced study. Advantage should be taken of the specific expertise of various faculty members in the traditional and contemporary fields of engineering.

A normal semester course load for a student holding no outside employment is 15-18 hours. Deficiencies or unsatisfactory grades may require the student to attend summer school or to extend the time of study beyond the normal four-year period. No student may register for more than 19 hours without consent of the Dean (See Maximum and Minimum Work in the University Regulations). Students on academic probation may not enroll in more than 13 hours. New freshmen are strongly advised to limit their initial registration to 15 hours. All students are expected to become familiar with the general education requirements, attendance regulations, grade point requirements, and rules concerning the maintenance of Good Academic Standing stated in the University Regulations.

### Electives

Non-science and engineering electives should be chosen so as to satisfy the particular requirements for the student's major. Duplication of subject matter should be avoided.

## Honors in Engineering

Successful completion of the Program of Study results in graduation with honors in Civil, Electrical, Mechanical, or Naval Architecture and Marine Engineering.

In order to be eligible for the program, a student must have been admitted to the College of Engineering, have junior or senior standing, and must have achieved an Cumulative Grade Point Average of at least 3.2. Approval of the College of Engineering and the Director of the Honors Program is also required.

To qualify for a bachelor's degree with departmental honors, the student must:

- Earn a Cumulative Grade Point Average (GPA) of at least 3.5 in the departmental courses, and a minimum overall grade point average of 3.2, and,
- Complete a senior honor thesis, which encompasses a senior level research or design project equivalent to six hours of degree credit.

To complete a senior honors thesis, a student must:

- Arrange for a faculty member in the relevant discipline to direct the thesis.
- Receive approval from the Director of the Honors Program to register for senior thesis credit,
- Register for the course hours required by the department for a Senior Honors Thesis, and,
- Give an oral defense of the thesis to a committee composed of the thesis director, a member of the faculty selected by the chair of the department in which the thesis is written, and a representative of the Honors Program

Participation in a departmental honors program does not increase the total number of hours needed for the completion of a particular degree.

## Civil Engineering

Civil Engineering applies the laws and principles of the basic sciences, primarily mechanics, to the design, modification, construction, and building of structures of all kinds, to resist and harness the forces of nature, and to improve the quality of life. Civil engineers are responsible for planning, designing, and constructing onshore and offshore operating structures, water-supply and waste-disposal systems, air- and water- pollution-control systems, flood-control systems, and transportation systems. In essence, civil engineers are concerned with the environment of modern society.

### Educational Objective of the Civil Engineering Program

*Produce civil engineering graduates who are academically prepared to be successful civil engineers serving the needs of society by working in construction, consulting, government, industry, or academia.*

This educational objective describes the career and professional accomplishments the Civil Engineering

Program is preparing its graduates to achieve. This broad educational objective is further defined and measured as follows:

1. Graduates of the Program will be academically prepared in the Civil Engineering areas of structures, geotechnical, water resources, and environmental engineering. According to the National Council of Examiners for Engineering and Surveying (NCEES), licensure is the mark of a professional that demonstrates accomplishment of the high standards of professionalism to which the engineering profession subscribes. The prerequisite for licensure is ABET-accredited education, engineering experience, and passing the Principles of Practice of Engineering Exam. This examination includes a 4 hour breadth exam in Construction, Geotechnical, Structural, Transportation, and Water Resources and Environmental areas in addition to a 4 hour depth exam in one of these areas. Maintaining licensure requires up to 15 hours of board-approved continuing professional development annually. UNO graduates will be surveyed to determine if they have earned their professional engineering license and whether they consider themselves academically prepared in each of these civil engineering areas.
2. UNO Civil Engineering graduates are considered successful civil engineers if they attain professional advancement. Graduates of the Program will be surveyed to determine professional advancement.

UNO Civil Engineering graduates will serve the needs of society by working in construction, consulting, government, industry (i.e., industrial plant, manufacturing plant, etc.) or academia. Graduates of the program will be surveyed to determine the industry in which they are employed.

The Department of Civil and Environmental Engineering at UNO offers a four-year program leading to the Bachelor of Science in Civil Engineering degree. The UNO Civil Engineering curriculum is accredited by the Accrediting Board for Engineering and Technology (ABET). The University also offers graduate programs leading to the Masters of Science in Engineering and Ph.D. in Engineering and Applied Science.

#### Student Learning Outcomes

##### Bachelor of Science in Civil Engineering

Students upon securing a degree in Bachelor of Science in Civil Engineering will have the following abilities:

1. An ability to design a system, component, or process to meet desired needs
2. An ability to function on multi-disciplinary teams
3. An ability to communicate effectively
4. An ability to conduct experiments, as well as analyze and interpret data

#### Curriculum in Civil Engineering

##### Bachelor of Science in Civil Engineering

General Education Requirements 6			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
English		PHYS 1062	3
ENGL 1157	3	Humanities	
ENGL 1158 or 1159 <sup>1</sup>	3	ENGL 2152	3
Mathematics		ENGL Literature	3
MATH 2114 <sup>3</sup>	4	Humanities Elective <sup>2</sup>	3
MATH 2124 <sup>3</sup>	4	Social Sciences	
Science		ECON 2000	3
BIOS	3	Social Science Elective (ANTH, ECON, GEOG, POLI, PSYC, SOC, URBN)	3

PHYS 1061	3	Arts (Fine Arts, Music, FTA except 2650, 2660)	3
		Total	39

#### Other Requirements

Course Name/ #	Credit Hours	Course Name/#	Credit Hours
MATH 2134	4	ENCE 2302, 2303	4
MATH 2221	3	ENCE 2310	3
MATH 2314	3	ENCE 2350	3
CHEM 1017	3	ENCE 2351; 2311	4
PHYS 1065	1	ENME 2750	3
PHYS 1063	1	ENCE Electives <sup>5</sup>	6
		Total	40 <sup>4</sup>

#### Course Requirements for Major

Course Name/ #	Credit Hours	Course Name/#	Credit Hours
ENCE 3318	3	ENCE 4321, 4322, 4323	9
ENCE 3327, 3326	4	ENCE 4340	3
ENCE 3340/3341	4	ENCE 4358/4359	6
ENCE 3356	4	ENCE 4386	3
ENCE 3391	3	ENCE 4390; 4399	5
ENCE 4318/4319	4		
		Total	48

Total Credit Hours Required	Credit Hours
	127

Minimum Cumulative GPA of 2.0 for all undergraduate coursework.

- "C" or better required
- Check General Education Courses to confirm courses fulfilling this requirement
- 6 credits of Math satisfy listed in general education
- Includes 2 credits of Math listed in General Education Requirements section
- Electives must be selected from 4000-level courses and must include a minimum of six design credits.
- To graduate with a degree in Engineering, the student must satisfy the General Degree requirements of the University.

Recommended Four-Year Plan of Study  
Bachelor of Science in Civil Engineering

Four Year Plan of Study			
First Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ENGL 1157	3	ENGL 1158 or 1159	3
MATH 2114	4	MATH 2124	4
Biology Elective	3	PHYS 1061	3
ENCE 2302, 2303	4	PHYS 1063	1
ENCE 2310	3	CHEM 1017	3
UNIV 1001 <sup>1</sup>	1	Arts Elective	3
		PHYS 1065	1
Total Hours	18	Total Hours	18

Second Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
Literature Elective	3	Humanities Elective	3
MATH 2134	4	MATH 2221	3
PHYS 1062	3	ENME 2750	3
ENCE 2350	3	ENCE 2351	3
Social Sc. Elective	3	ENCE 2311	1
		ECON 2000	3
Total Hours	16	Total Hours	16

Third Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ENGL 2152	3	ENCE 3390	3
MATH 2314	3	ENCE 4358	3
ENCE 3318	3	ENCE Elective	3
ENCE 3356	4	ENCE 3327, 3326	4
		ENCE 3340	3
		ENCE 3341	1
Total Hours	13	Total Hours	17

Fourth Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
Civil Engr. Elective	3	ENCE 4322	3
ENCE 4318	3	ENCE 4321	3
ENCE 4319	1	ENCE 4386	3
ENCE 4323	3	ENCE 4390	3
ENCE 4340	3	ENCE 4399	2
ENCE 4359	3		
Total Hours	16	Total Hours	14
Total Degree Hours			128

1. Required for all first-time full-time students.

## Electrical Engineering

The Department of Electrical Engineering offers the Bachelor of Science in Electrical Engineering. Students may elect to follow the Computer Engineering concentration. Electrical Engineering emphasizes the traditional areas of electronics, power, communications, and control, while the Computer Engineering Concentration emphasizes the areas of digital integrated circuits, computer systems, and embedded microsystems. Electives are available which allow both Electrical Engineering and Computer Engineering students to obtain breadth and depth in other areas.

The Department of Electrical Engineering has the goal of producing well-educated electrical and computer engineers who will be successfully employed in industry at the regional and national levels or who will continue with graduate studies. The curriculum is designed for maximum breadth of coverage of electrical and computer engineering topics while allowing considerable depth in certain areas chosen by each student. The majority of the department's graduates are employed in the electronics, communications, computer, power, oil and petrochemical, and consulting industries. Other areas of electrical and computer engineering are available in the curriculum via electives.

Students may select a concentration in either Electrical Engineering or Computer Engineering. The traditional areas of electronics, power, communications, and controls are emphasized in the Electrical Engineering Concentration, while the Computer Engineering Concentration emphasizes the areas of digital electronics, computer architecture, operating systems, and software development. Electives are available which allow students in either concentration to obtain breadth and depth in other areas.

### Educational Objectives of the Electrical Engineering Program

The objectives were developed by the faculty in consultation with the Electrical Engineering Industry Advisory Board and were approved by electrical engineering students.

The objective of the Electrical Engineering program of the University of New Orleans is to produce graduates who are successful practitioners of electrical and computer engineering and appreciate the value of furthering their education.

Driven by the University's urban mission and the needs of (and our ties with) industry of the Gulf Coast region, the Electrical Engineering program meets the demands of the following industries:

- Energy and petrochemical
- Data and telecommunication
- Computer Engineering

- Information and systems technologies
- Consulting
- Industrial power and controls
- Electronics design and manufacturing
- Shipbuilding

The Electrical Engineering program also meets the demands of national industries and serves as a foundation for graduate education.

A minimum grade of C or better is required in MATH 2124, ENEE 2550, ENEE 2551, and ENEE 3530.

### Student Learning Outcomes

#### Bachelor of Science in Electrical Engineering

1. Ability to apply knowledge of mathematics, science, and engineering
2. Knowledge of advanced mathematics including differential equations, linear algebra, and discrete mathematics
3. Ability to use the techniques, skill, and modern Electrical Engineering tools necessary for Electrical Engineering practice
4. Ability to identify, formulate, and solve Electrical Engineering problems

### Curriculum in Electrical Engineering

#### Bachelor of Science in Electrical Engineering

General Education Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
English		PHYS 1062	3
ENGL 1157	3	Humanities	
ENGL 1158 or 1159 <sup>1</sup>	3	ENGL 2152	3
Mathematics		ENGL Literature	3
MATH 2114 <sup>3</sup>	4	Humanities Elective <sup>2</sup>	3
MATH 2124 <sup>3</sup>	4	Social Sciences	
Science		ECON 2000	3
BIOS	3	Social Science Elective (ANTH, ECON, GEOG, POLI, PSYC, SOC, URBN)	3
PHYS 1061	3	Arts (Fine Arts, Music, FTA except 2650, 2660)	3
		Total	39

Other Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
CHEM 1017	3	MATH 3511	3

CSCI 1205, 2025	6	PHYS 1063	1
ENGR 3090	1	PHYS 1065	1
ENEE 2510, 2550, 2551	7	PHYS 2064	3
ENEE 2582, 2586	4	PHIL 2244	1
MATH 2134	4	MATH 2221	3
		Total	39 <sup>4</sup>

#### Course Requirements for Major

Course Name/ #	Credit Hours	Course Name/#	Credit Hours
ENEE 3512 (1), 3582 (3)	4	ENEE 3091 (1), 3092 (3)	4
ENEE 3517 (1), 3540 (3), 3543 (3)	7	ENEE Electives (3xxx or 4xxx)	9
ENEE 3530 (3), 3572 (3)	6	ENEE Elective <sup>5,6</sup> or CSCI Elective <sup>5</sup>	3
ENEE 3514 <sup>5</sup> , 3583 <sup>5</sup> or ENEE Electives <sup>6</sup>	4	Math 3721 <sup>5</sup> or ENEE 3560 <sup>6</sup>	3
ENEE 3587 <sup>5</sup> or ENEE 3533 <sup>6</sup>	3		
		Total	43

#### Computer Engineering Concentration

Course Name/ #	Credit Hours	Course Name/#	Credit Hours
ENEE 3514, 3583	4	MATH 3721	3
ENEE 3587	3	ENEE Elective or CSCI Elective	3
		Total	13

Total Credit Hours Required	Credit Hours
	121

1. "C" or better required
2. Check General Education Courses to confirm courses fulfilling this requirement
3. 6 credits of Math satisfy the General Education requirements
4. Includes 2 credits of Math listed in General Education requirements section
5. Required courses for Electrical Engineering Degree with Computer Engineering concentration
6. Required courses for Electrical Engineering Degree with no concentration

A minimum grade of C or better is required in MATH 2124, ENEE 2550, ENEE 2551, and ENEE 3530.

[Recommended Four-Year Plan of Study](#)  
[Bachelor of Science In Electrical Engineering](#)

Four Year Plan of Study			
First Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
MATH 2114	4	MATH 2124	4
PHYS 1061	3	PHYS 1062	3
PHYS 1063	1	PHYS 1065	1
CSCI 1205	3	ENEE 2582	3
ENGL 1157	3	ENEE 2586	1
UNIV 1001 <sup>1</sup>	1	ENGL 1158 or 1159	3
Total Hours	15	Total Hours	15

Second Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
MATH 2221	3	MATH 3511	3
MATH 2134	4	ENEE 2551	3
ENEE 2550	3	ENEE 2510	1
CSCI 2025	3	PHYS 2064	3
Literature Elective	3	CHEM 1017	3
		ENGL 2152	3
Total Hours	16	Total Hours	16

Third Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ENEE 3540	3	ENEE 3530	3
ENEE 3560	3	ENEE 3543	3
HUM Elective	3	ENEE 3517	1
BIOL Elective	3	ENEE 3582	3
ART Elective	3	ENEE 3512	1
		Social Science Elective	3
		ECON 2000	3
Total Hours	15	Total Hours	17

Fourth Year of Enrollment			
First Term		Second Term	

Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ENEE 3533	3	ENEE Elective 3000+	3
ENEE 3572	3	ENEE Elective 3000+	3
ENEE 3091	1	ENEE Elective 3000+	3
ENGR 3090	1	ENEE 3092	3
ENEE Elective 3000+	3		
ENEE Elective Lab 3000+	1		
ENEE Elective 3000+	3		
Total Hours	15	Total Hours	12
Total Degree Hours			121

1. Required for all first-time full-time students.

### Recommended Four-Year Plan of Study

#### Bachelor of Science in Electrical Engineering, Computer Engineering Concentration

Four Year Plan of Study			
First Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
MATH 2114	4	MATH 2124	4
PHYS 1061	3	PHYS 1062	3
PHYS 1063	1	PHYS 1065	1
CSCI 1205	3	ENEE 2582	3
ENGL 1157	3	ENEE 2586	1
UNIV 1001 <sup>1</sup>	1	ENGL 1158 or 1159	3
PHIL 2244	1		
Total Hours	16	Total Hours	15

Second Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
MATH 2221	3	MATH 3511	3
MATH 2134	4	ENEE 2551	3
ENEE 2550	3	ENEE 2510	1
CSCI 2025	3	PHYS 2064	3
Literature Elective	3	CHEM 1017	3
		ENGL 2152	3

Total Hours	16	Total Hours	16
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Third Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ENEE 3540	3	ENEE 3530	3
ENEE 3572	3	ENEE 3543	3
HUM Elective	3	ENEE 3517	1
BIOL Elective	3	ENEE 3582	3
ART Elective	3	ENEE 3512	1
		Social Science Elective	3
		ECON 2000	3
Total Hours	15	Total Hours	17

Fourth Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
MATH 3721	3	ENEE Elective 3000+	3
ENEE 3587	3	ENEE Elective 3000+	3
ENEE 3091	1	ENEE or CSCI Elective 3000+	3
ENGR 3090	1	ENEE 3092	3
ENEE 3583	3		
ENEE 3514	1		
ENEE Elective 3000+	3		
Total Hours	15	Total Hours	12
Total Degree Hours			122

1. Required for all first-time full-time students.

### Minor in Electrical Engineering

Students wishing to minor in Electrical Engineering may do so by completing 19 hours of required courses and electives in Electrical Engineering (ENEE prefix) with a grade of C or better in each course. Required Courses:

ENEE 2550 - Circuits I (3 cr.)

ENEE 2551 - Circuits II (3 cr.)

ENEE 2510 - Circuits Lab or ENEE 2586 - Digital Logic (1 cr.)

ENEE 2582 - Digital Systems (3 cr.)

Other Courses: In addition to the required courses, students must complete 9 hours of Electrical Engineering

courses at the 3000 or 4000 level.

## Mechanical Engineering

Mechanical engineers apply the principles and laws of the basic sciences to the design, modification, operation, construction, and manufacture of machines and systems. Mechanical engineers are engaged in research, analysis, design, construction, development, testing, and sales of many kinds of mechanical devices. Mechanical engineering deals specifically with mechanisms, gears, cams, bearings, power machinery such as reciprocating and rotary engines, steam and jet turbines, compressors and pumps, various means of transportation such as aircraft, magnetic suspension trains, surface effect vehicles, and spacecraft, instrumentation, machine computation, and control/guidance systems.

The department strives to serve the needs of regional industries, especially the petrochemical process, aerospace, and manufacturing industries. A major goal of the department is to provide education for these groups. Various design courses are taught to accommodate this market.

The Department of Mechanical Engineering offers the Bachelor of Science in Mechanical Engineering. The University also offers graduate programs leading to the Masters of Science in Engineering, with a concentration in Mechanical Engineering, as well as a Ph.D. in Engineering and Applied Science.

### Educational Objectives of the Mechanical Engineering Program

Consistent with the mission of the University and based on the needs of our constituents, the Department of Mechanical Engineering has adopted the following program educational objectives.

Graduates of the University of New Orleans Mechanical Engineering Program will:

1. Advance professionally, either through employment or progress towards an advanced degree, by applying their technical knowledge and abilities.
2. Attain positions of increasing responsibility through employing effective workplace skills and the professional practice of engineering.

### Student Learning Outcomes

#### Bachelor of Science in Mechanical Engineering

1. Graduates will demonstrate an ability to apply knowledge of mathematics, science and engineering
2. Graduates will demonstrate an ability to design and conduct experiments, as well as to analyze and interpret data
3. Graduates will demonstrate an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability
4. Graduates will demonstrate an ability to identify, formulate, and solve engineering problems
5. Graduates will demonstrate an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice

### Curriculum in Mechanical Engineering

Bachelor of Science in Mechanical Engineering

General Education Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
English		PHYS 1062	3
ENGL 1157	3	Humanities	
1			

ENGL 1158 or 1159	3	ENGL 2152	3
Mathematics		ENGL Literature	3
MATH 2114 <sup>3</sup>	4	Humanities Elective <sup>2</sup>	3
MATH 2124 <sup>3</sup>	4	Social Sciences	
Science		ECON 2000	3
BIOS	3	Social Science Elective (ANTH, ECON, GEOG, POLI, PSYC, SOC, URBN)	3
PHYS 1061	3	Arts (Fine Arts, Music, FTA except 2650, 2660)	3
		Total	39

Other Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
CHEM 1017	3	ENME 2740	3
CSCI 1201 or 1205	3	ENME 2750	3
ENCE 2311	1	ENME 2785	3
ENCE 2350	3	MATH 2221	3
ENCE 2351	3	MATH 2134	4
ENEE 2500	3	PHIL 2244	1
ENEE 3501	3	PHYS 1063	1
ENEE 3518	1	PHYS 1065	1
ENME 1781	3	ENME 2770	3
ENME 2711	1		
		Total	48 <sup>4</sup>

Course Requirements for Major			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
ENGR 3090	1	ENME 4733	3
ENME 3020 or MATH 3221	3	ENME 4754	3
ENME 3711	1	ENME 3771	3
ENME 3716	1	ENME 3776	3
ENME 3720	3	ENME 3780 or 4728	3
ENME 4777	3	ENME Electives 3000+	6
ENME 3734	3	ENME 3735	3
		Total	39

Total Credit Hours Required	Credit Hours
	126

1. "C" or better required
2. Check General Education Courses to confirm courses fulfilling this requirement
3. 6 credits of Math satisfy listed in general education
4. Includes 2 credits of Math listed in General Education requirements section

**Recommended Four-Year Plan of Study**  
**Bachelor of Science in Mechanical Engineering**

Four Year Plan of Study			
First Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ENGL 1157	3	ENGL 1158 or 1159	3
MATH 2114	4	MATH 2124	4
CHEM 1017	3	PHYS 1062	3
PHYS 1061	3	PHYS 1065	1
PHYS 1063	1	CSCI 1201 or CSCI 1205	3
Social Science Elective	3	ENME 1781	3
UNIV 1001 <sup>1</sup>	1		
<b>Total Hours</b>	<b>18</b>	<b>Total Hours</b>	<b>17</b>

Second Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ENGL 2152	3	MATH 2134	4
MATH 2221	3	ENCE 2311	1
ENEE 2500	3	ENCE 2351	3
ENCE 2350	3	ENME 2750	3
ENME 2740	3	ENME 2770	3
		ENME 2785	3
		ENME 2711	1
<b>Total Hours</b>	<b>15</b>	<b>Total Hours</b>	<b>18</b>

Third Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours

MATH 3221 or ENME 3020	3	ENME 3771	3
ENME 3720	3	ENME 3780 OR ENME 4728	3
ENME 3776	3	ECON 2000	3
ENME 3716	1	PHIL 2244	1
ENME 3735	3	Biology Elective	3
ENME 3734	3	Humanities Elective	3
Total Hours	16	Total Hours	16

Fourth Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ENEE 3518	1	ENME 4777	3
ENEE 3501	3	ENME Elective 3000+	3
ENME 3711	1	ENME 4733	3
ENME Elective 3000+	3	Arts Elective	3
ENME 4754	3		
ENGR 3090	1		
Literature Elective	3		
Total Hours	15	Total Hours	12
Total Degree Hours			126

1. Required for all first-time full-time students.

## Naval Architecture and Marine Engineering

Naval architects and marine engineers work on the design of ships, boats, and offshore structures. Included are the marine systems for shipping raw materials and finished products, the frontiers of deep-sea exploration, and mineral recovery and the construction and servicing of marine systems.

UNO offers the Bachelor of Science in Naval Architecture and Marine Engineering (NAME), the Master of Science in Engineering, and the Ph.D. in Engineering and Applied Science. The UNO Naval Architecture and Marine Engineering curriculum is accredited by the Engineering Accreditation Commission of ABET, [www.abet.org](http://www.abet.org). These specialized degrees in Naval Architecture and Marine Engineering prepare majors for careers in the US and international shipbuilding and offshore industries by applying the principles and laws of the basic sciences and mechanics to the design, construction and operation of commercial, naval, and recreational vessels, platforms, and other floating structures.

### Mission Statement

The mission of the School of Naval Architecture and Marine Engineering is to supply well-educated graduates for perpetuation and advancement of the maritime industry, to maintain and advance the practice of naval architecture and marine engineering through education and research processes, to elevate the UNO School of NAME and the University of New Orleans in prominence as a valued contributor to the marine field, and to continually strengthen direct ties with the local and national marine industry constituency.

## Educational Objectives of the Naval Architecture and Marine Engineering Program

The two principal constituencies of the School of NAME to which the above mission is directed are

1. the maritime industry, and
2. students

Although the industry constituency encompasses the marine industry nationally, its primary target is the shipbuilding and offshore industry in the State of Louisiana and the extended Gulf Coast region. The industry constituency is considered to include an alumni sub-constituency, as essentially the entire active alumni group is composed of industry professionals.

Graduates of the School of NAME BS program are to be recognized as well educated engineers consistently demonstrating exemplary professional capabilities. The graduates are to have demonstrated the ability to direct, supervise, and make important decisions regarding the design and engineering of problems based on engineering fundamentals and modern technological tools. Graduates of the program are to have demonstrated the maturity and knowledge needed for participating in the leadership of the advancement of the NAME field.

### Student Learning Outcomes

#### Bachelor of Science in Naval Architecture and Marine Engineering

1. Ability to apply knowledge of mathematics, science and engineering;
2. Ability to use the techniques, skill, and modern engineering tools necessary for engineering practice;
3. Ability to identify, formulate, and solve engineering problems;
4. Ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability; and,
5. Basic knowledge of fluid mechanics, dynamics, structural mechanics, material properties, hydrostatics and energy/propulsion systems in the context of marine vehicles.

### Curriculum in Naval Architecture and Marine Engineering

#### School of Naval Architecture and Marine Engineering

General Education Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
English		PHYS 1062	3
ENGL 1157	3	Humanities	
ENGL 1158 or 1159 <sup>1</sup>	3	ENGL 2152	3
Mathematics		ENGL Literature	3
MATH 2114 <sup>2</sup>	4	PHIL 2201	3
MATH 2124 <sup>2</sup>	4	Social Sciences	
Science		ECON 2000	3
BIOS	3	Social Science Elective (ANTH, ECON, GEOG, POLI, PSYC, SOC, URBN) <sup>4</sup>	3
PHYS 1061	3	Arts (Fine Arts, Music, FTA except 2650, 2660) <sup>4</sup>	3
		Total	39

Other Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
CHEM 1017	3	ENME 2770	3
ENCE 2350	3	MATH 2134	4
ENCE 2351	3	MATH 2221	3
ENCE 2311	1	NAME 2160	3
ENEE 2500	3	NAME 1170	3
ENGR 3090	1	NAME 1175	2
ENME 2740	3	NAME 2130	3
ENME 2750	3	PHYS 1063	1
ENME 3020 or MATH 3221	3	PHYS 1065	1
ENME 3716	1		
ENME 3720	3		
		Total	52 <sup>3</sup>

Course Requirements for Major			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
NAME 3120	3	NAME 3160	3
NAME 3131	3	NAME 3171	3
NAME 3135	3	NAME 4170	3
NAME 3150	3	NAME 4175	3
NAME 3155	1	NAME 4000-Level Electives	12
		Total	37

Total Credit Hours Required	Credit Hours
	128

Students have to achieve a grade of "C" or better in all prerequisites to 1000-level, 2000-level and 3000-level NAME courses as NAME 4170.

- "C" or better required
- 6 credits of Math satisfy the general education requirements
- Includes 2 credits of Math listed in general education requirements section
- Check General Education Courses to confirm courses fulfilling this requirement

**Recommended Four-Year Plan of Study**  
**Bachelor of Science in Naval Architecture and Marine Engineering**

Four Year Plan of Study			
First Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ENGL 1157	3	ENCE 2350	3
MATH 2114	4	ENGL 1158	3
NAME 1170	3	MATH 2124	4
PHYS 1061	3	NAME 1175	1
PHYS 1063	1	PHYS 1062	3
UNIV 1001 <sup>1</sup>	1	PHYS 1065	2
Total Hours	15	Total Hours	15

Second Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
CHEM 1017	3	ENME 2740	3
ENCE 2311	1	ENME 3716	1
ENCE 2351	3	ENME 3720	3
ENME 2750	3	ENME 2770	3
MATH 2221	3	MATH 2134	4
NAME 2160	3	NAME 2130	3
Total Hours	16	Total Hours	17

Third Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
Art Elective	3	ENEE 2500	3
Literature Elective	3	ENGL 2152	3
ECON 2000	3	NAME 3131	3
ENME 3020 or MATH 3221	3	NAME 3155	1
NAME 3120	3	NAME 3160	3
NAME 3150	3	NAME 3171	3
Total Hours	18	Total Hours	16

Fourth Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours

ENGR 3090	1	Biology Elective	3
NAME 3135	3	NAME 4175	3
NAME 4170	3	NAME 4000-level Electives	6
NAME 4000-level Electives	6	Social Science Elective	3
PHIL 2201	3		
Total Hours	16	Total Hours	15
Total Degree Hours			128

1. Required for all first-time full-time students.



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# College of Liberal Arts

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## Kevin L. Graves, Interim Dean

The College of Liberal Arts, The University of New Orleans's largest college, includes 13 departments, the School of Urban Planning and Regional Studies, and four interdisciplinary programs. Through its academic foundation based on a tradition of excellence, the College enables students to develop a broad intellectual and cultural perspective by learning from nationally and internationally recognized scholars and leaders in their academic discipline who draw from their research findings, scholarship, and creative activities to enhance each student's educational experience. From innovative educational programming to experiential classroom environments, students in the College of Liberal Arts are offered preparation for a variety of careers and professions in a rapidly changing global environment.

## Major Programs

The College of Liberal Arts offers major programs leading to the Bachelor of Arts or Bachelor of Science degree in:

Anthropology	Music
Film and Theatre Arts	Philosophy
English	Political Science
Fine Arts	Romance Languages
History	Sociology
International Studies	Urban Studies and Planning

## Minor and Certificate Programs

Minor programs are offered in most of the above-listed areas. Interdisciplinary minors in Africana Studies, Asian Studies, Disaster Resilience Studies, European Studies, Latin American and Caribbean Studies, Environmental Studies, and Women's and Gender Studies are also available. Certificate programs are available in American Humanics, Historic Preservation and Geographic Information Systems.

## Requirements for Bachelor of Arts Degree

The following course requirements must be completed by all students working toward a Bachelor of Arts degree in the College of Liberal Arts. Some curricula may demand more than the minimums designated below or may call

for specific courses where the general requirements allow a choice. Each student should check his or her Major curriculum on the following pages to determine the additional requirements and restrictions which apply in that particular Major.

### General Course Requirements

1. Math - Six hours. Any combination of 1031, 1032, 1115, 1116, 1125, 1126, or higher can be used to meet this requirement except where otherwise specified in the curriculum. Limitations: No credits allowed toward graduation for Mathematics 1021, 1023 or for more than nine hours of math below the 2000 level.
2. Science - Nine hours. Six hours of one science and three hours of a different science. One of the sciences must be Biology and the other must be Earth and Environmental Sciences, Chemistry, or Physics. NOTE: Credit toward graduation is not allowed for both Biology 1083 and 1053, or for Biology 1073 and 1063.
3. English Composition - Six hours. ENGL 1157 and ENGL 1158/1159 or their equivalent. Completion of 1158 or 1159 with a grade of C or better.
4. Literature - Six hours of literature from any department. Limitations: Writing and linguistics courses do not fulfill this requirement. NOTE: Some Liberal Arts Majors require specific literature courses. See your individual curriculum.
5. Arts - Three hours to be taken from the departments of Fine Arts, Music, or theatre/dance/film-related courses in Film and Theatre. Communications-related courses, housed in the Film and Theatre Department, are not useable toward Arts credits.
6. Humanities - Nine hours. To include at least one subject different from that used for the Arts requirement (above), and at least six hours at or above the 2000 level. (If the Arts requirement is fulfilled with a 2000 or higher-level course, reduce these six hours to three.) To be taken from the Departments of Film and Theatre (non-Art courses); English; Fine Arts; Foreign Languages; History; Music; and/or Philosophy. NOTE: Any literature course in English or foreign languages used to fulfill the College requirement of six hours of literature may not count toward the Humanities requirement.
7. Foreign Languages - Three to twelve hours. Completion of course 2001 in one foreign language or completion of course 1002 in two foreign languages offered through the Department of Foreign Languages. Unless a student is placed (by placement test and/or transfer credit) above the first course, either three semesters of one language in course sequence or two semesters each of two different languages are required. (Exceptions: BA in International Studies and BA in Fine Arts: Art History. See individual curricula.)

NOTES: 1) Students whose native language is Spanish should confer with the Foreign Languages Department

about Spanish 2003 and 2004, which are especially designed to meet their needs and which also meet this requirement. Languages other than Spanish or French that are offered through the Department of Foreign Languages and extend through the 2001 or 2011 level may be used to meet this requirement. 2) Some 2001- and 2002-level courses in languages other than Spanish and French may not be available each semester.

8. Social Sciences - Twelve hours to include two different subject areas with six hours at or above the 2000 level from the following subjects: Anthropology, Economics, Education, Geography, Political Science, Psychology, Sociology and Urban Studies. NOTE: In some curricula, most or all of this requirement is met within other requirements.
9. Oral Competency - Each student should demonstrate competence in the techniques of oral communication relevant to his/her major program. Students should be able to discuss with clarity ideas and factual material in formal small group class settings and in conferences with their professors. This requirement may be fulfilled by one of the following:
  - a. Successful completion of an approved course in the student's Major department or college that requires a demonstration of oral competence as a condition of receiving a passing grade in the course.
  - b. Demonstration of oral competence in an approved course in the student's Major department or college that does not require oral competence as a condition of receiving a passing grade. If a student demonstrates oral competency in such a course, an entry shall be made on his/her transcript that oral competency has been demonstrated regardless of the final grade in the course. If a student fails to demonstrate oral competency in the approved course(s) offered by a student's Major department or college, the student may take a course outside his/her Major department as a means of meeting the general degree requirement for oral competency, upon approval of the student's Major department.
10. Electives - Number of hours varies by Major. See curriculum outline in General Catalog. Limitations: Courses must be from the list of approved Liberal Arts electives; however, nine hours of credit in subjects not on the approved list are allowed. (Within those nine hours a maximum of three hours of human performance and/or health-safety are permitted.)

NOTES: At least six hours must be in courses numbered 3000 or above in a subject or subjects other than

the Major and from the approved list of electives. (EDHS/EDHP/EDPE courses may not be used to fulfill this requirement.) Liberal Arts students are encouraged to plan their choice of electives with the assistance of a departmental faculty advisor in the context of their overall educational goals.

### Approved Electives

Most of the curricula provide considerable flexibility for devising a program adapted to the particular interests and educational goals of the individual student. To assure the construction of a cohesive program, all students are expected to consult with a Major advisor regarding electives as well as the courses specified for the Major. Many combinations are possible, but logical planning should be the basis of all programs.

Within the limitations noted above students in the College of Liberal Arts may elect, for degree credit, any course for which they have the prerequisites from the following subjects:

Accounting	English	Mathematics
Anthropology	Film and Theatre	Music
Arts and Sciences	Finance	Philosophy
Bacteriology	Fine Arts	Physics
Biology	Foreign Languages	Political Science
Botany	Geography	Psychology
Business Administration	History	Social Sciences
Chemistry	Hotel, Restaurant and Tourism Administration	Sociology
Computer Science	Humanities	Urban Studies
Economics	Journalism	Women's and Gender Studies
Education*	Management	Zoology
Earth and Environmental Sciences	Marketing	

\*Only courses in Curriculum and Instruction, Educational Foundations and Research, Library Science, and Special Education.

### Other Subjects

Courses in subjects not listed above normally will be accepted to the extent of nine credit hours total. This limit may be waived, if the student presents to the Dean a logical plan clearly showing the relevance of such courses to the Major program and to the educational goals of the student. Such permission must be secured before the nine-hour limit is exceeded. A maximum of three hours of any Health/ Safety and/or Human Performance course, regardless of level, may be included in the nine credit hours total.

## Business Administration Component

For students who wish to obtain a foundation in business, the following courses are recommended: Accounting 2100 and 2130; Quantitative Methods—Business and Economics 2785; Finance 3300; Management 3401; and Marketing 3501. Students who plan to take a substantial number of business courses should seek the advice of the appropriate persons in the College of Business Administration.

## Requirements for Bachelor of Science Degree

The following course requirements must be completed by all students working toward a Bachelor of Science degree in the College of Liberal Arts. Each student should check the Major curriculum in Urban Studies and Planning (currently the only B.S. degree offered in the College of Liberal Arts) to determine the additional requirements and restrictions which apply in that Major.

## General Course Requirements

1. Math – Six hours.
2. Science – Nine hours. Six hours of one science and three hours of a different science. One of the sciences must be Biology and the other must be Earth and Environmental Sciences, Chemistry , or Physics. NOTE: Credit toward graduation is not allowed for both Biology 1083 and 1053 or for Biology 1073 and 1063.
3. English Composition – Six hours. ENGL 1157 and ENGL 1158/1159 or their equivalent. Completion of 1158 or 1159 with a grade of C or better.
4. Literature – Six hours of literature from any department. Limitations: Writing and linguistics courses do not fulfill this requirement.
5. Arts <sup>1</sup> – Three hours. To be taken from the departments of Fine Arts, Music, or film/theatre/dance – related courses in Film, Theatre and Communication Arts. .
6. Humanities <sup>1</sup> – Three hours. To be taken from any of the humanities disciplines.
7. Social Sciences <sup>1,2</sup> – Six hours to be taken from the social sciences.
8. Oral Competency – Each student should demonstrate competence in the techniques of oral communication relevant to his/her major program. Students should be able to discuss with clarity ideas and factual material in formal small group class settings and in conferences with their professors. This requirement is satisfied by successful completion of Film and Theatre Arts 2650.
  - a. Six of the twelve hours in humanities, arts, and/or social sciences must be at the 2000 level or above.
  - b. See departmental list of acceptable courses.

## Transfer Credit

Transfer credits acceptable for admission purposes will be valid for degree credit in the College only to the extent to which they represent courses acceptable in the curricula of the College. The College may decline to accept transfer credits in any course in which a grade lower than a C has been received. Validation may be required for credits earned more than 10 years before admission to the College. Regarding work from a two-year school, the college will honor up to 60 hours (64 hours for Jazz Studies students). The college will determine which hours are most useable toward the course of study.

## University and Major Residence Requirements

Transfer students should note that the last 25% of coursework must be taken in residence while enrolled in the college from which the degree is to be earned. In the College of Liberal Arts, transfer students must take at least 50% of the hours in the Major subject (with a minimum of 50% of the hours in courses numbered 3000 or above) at UNO. Candidates for a degree must earn a C average in all courses in their Major subject taken while they are registered in the College.

## Program Planning

All students should plan their programs in advance in order to receive maximum benefit from their college years. Besides examining their own goals, students should consult with advisors to take advantage of alternatives in General Degree Requirements and electives.

Students are responsible for knowing degree requirements and for enrolling in courses that fit into their degree programs. They are strongly encouraged to complete the requirements in English, Foreign Language, Mathematics, and Science at the earliest possible time in their college career.

Each student is also responsible for notifying the college office of graduation plans at the beginning of the semester preceding the student's final semester. At that point, a graduation checkout sheet is prepared which outlines the student's current scholastic position and indicates the course requirements remaining for the degree. The college encourages students to sign up for a graduation check-sheet when they have reached 75 hours of coursework.

## Requirements for a Minor

With the exception of Film and Theatre and Music minors, a Liberal Arts Minor requires a minimum of 18 hours and a 2.0 average in the Minor field. See Minor in individual curricula for specific courses required.

At least nine hours of coursework must be taken at UNO, and for a minor requiring six or more hours at the 3000 level or above, at least six of those hours must be taken at UNO. For minors requiring fewer than six hours of 3000- or 4000-level courses all of these hours must be taken at UNO. No pass/fail courses will apply toward a Minor.

### Minor in Africana Studies

The College of Liberal Arts administers the interdisciplinary Minor in Africana Studies. The purpose of this Minor is to acquaint the student with current and historical knowledge of the black experience in Africa, the Americas, and other parts of the world drawing from courses in the College of Liberal Arts as well as approved courses offered by the other Colleges. The Minor signifies the student has a basic, general understanding of the significant contributions made by African people in Africa and in the African Diaspora.

The requirements of the minor are as follows:

1. Completion of the requirements of a degree in one of the colleges at UNO.
2. Completion of History 1010, either English 2071 or 2072, and either History 3551 or 3552.
3. Completion of nine credit hours to be taken from a list of approved courses. To complete 18 credit hours, the student must choose courses from a minimum of three disciplines. At least 50% of the credit hours must consist of courses at the 3000 level or above.
4. The Coordinator may permit substitution of as many as six of these 18 hours with UNO Special Topic or Independent Study courses. Appropriate courses offered at UNO or other universities may be suggested as substitutes. The Coordinator may assign each student to a faculty advisor who will help the student design the Minor program. Courses on Africana Studies in the Major field that are counted as credit hours for that Major may not also be counted toward this Minor.

Interested students should contact the Coordinator of Area Studies Minors through the College of Liberal Arts office.

### Minor in Asian Studies

The College of Liberal Arts administers the interdisciplinary Minor in Asian Studies. The purpose of this Minor is to acquaint students with current and historical knowledge of the Asian region, peoples, and cultures. The Minor signifies students have a basic and general understanding of this part of the world. The requirements of this Minor are as follows:

1. Completion of the requirements of a degree in one of the colleges at UNO.
2. Completion of four semesters (a minimum of 12 credit hours) of Chinese, Japanese, or other relevant language through 2002 or its equivalent.
3. Completion of History 2201 and 2202 (the survey of Asian civilizations).
4. Credit in courses on Asia to be approved by the Coordinator, for a total of 12 credit hours in addition to the language and history requirement. At least six credit hours must be at the 3000 level or above. In addition, six of the 12 credit hours must be chosen from at least two disciplines outside of history and language, with no more than nine credit hours from any one discipline. Courses on Asia in the major field that are counted as credit hours for that Major may not also be counted toward this Minor.
5. A minimum 2.0 grade-point average must be attained in all courses in the minor program.

Interested students should contact the Coordinator of Area Studies Minors through the College of Liberal Arts office.

### Minor in Disaster Resilience Studies

The Minor in Disaster Resilience Studies draws its required and optional courses from disciplines in the College of Liberal Arts, College of Sciences, and College of Business. This interdisciplinary Minor capitalizes on the unique expertise resident in UNO's faculty to provide students with an understanding of how hazards affect communities, government and non-profit agencies, businesses and social systems.

The requirements of the minor are as follows:

1. Completion of the requirements of a degree in one of the colleges at UNO.
2. Completion of four core courses: URBN 4150, SOC 4871, GEOG 4805, and HIST 2050.
3. Completion of three courses from an approved list \* (in addition to the core courses).
4. A 2.0 grade-point average in all courses used to fulfill this Minor.

\*Approved courses for this minor: SOC 4098 (when hazard-related topic); ANTH 4721; GEOG 4150, 4523; URBN 3140, 4165, 4810; MURP 4140, 4145, 4160; PADM 4800 (when hazard-related topic), 4810, 4170; FIN 4311; MANG 4473.

To meet the prerequisite requirements for some of the approved courses, students may need to complete more than the minimum 21 hours required for this Minor.

### Minor in European Studies

The College of Liberal Arts administers the interdisciplinary Minor in European Studies. The purpose of this Minor is to acquaint the student with historical and current knowledge of the European region, peoples, societies, economies, and cultures. The Minor signifies students have a basic and general understanding of this part of the world. The requirements of this Minor are as follows:

1. Completion of the requirements of a degree in one of the colleges at UNO.
2. Completion of courses in French, Italian, Spanish, German, Russian, or other relevant languages through 2002 or its equivalent.
3. Completion of six credit hours in one of two core curricula:
  - a. Core I: Social Sciences (Anthropology 2052; Geography 3190, Geography of Western Europe; History 1001, 1002; Political Science 2600).
  - b. Core II: Arts and Letters (English 2371, 2372; Fine Arts 2201, 2202; Music 2201, 2202; Philosophy 2311, 2312).
4. Credit courses in European Studies to be approved by the Coordinator, for a total of 12 credit hours with a minimum 2.0 grade-point average, to include at least six credit hours at the 3000 level or above. These 12 credit hours must be chosen from a minimum of three disciplines and must cover different time periods. Courses on Europe in the Major field that are counted as credits for that major may not also be counted toward this Minor.
5. A minimum 2.0 grade-point average must be attained in all courses in the Minor program.

Interested students should contact the Coordinator of Area Studies Minors through the College of Liberal Arts office.

### Minors in Geography

A Minor in Geography requires the student take a total of 18 credit hours including the following:

- Geography 1001 or 1002.
- Six hours selected from among Geography courses at the 2000 level
- Nine hours selected from among Geography courses at the 3000 level or above.
- A letter grade of "C" or better must be earned in each course.

### Minor in Women's and Gender Studies

The College of Liberal Arts administers the interdisciplinary Minor in Women's and Gender Studies. The purpose of this Minor is to acquaint the student with current and historical knowledge of the fields of Women's and Gender Studies. The Minor signifies the student has a basic and general understanding of existing scholarship on women and gender. The requirements of the minor are as follows:

1. Completion of the requirements of a degree in one of the colleges at UNO.
2. Completion of WGS 2010, Introduction to Women's, Gender and Sexuality Studies.
3. Credit in courses on Women's and Gender Studies, to be approved by the Director of Women's and Gender Studies, for a total of 18 credit hours with a 2.0 grade point average, to include at least 50% of the credit hours at the 3000 level or above.
4. To complete the 18 credit hours, the student must choose from a minimum of three disciplines, with no more

than six credit hours from any one discipline.

Interested students can contact the Director of the Women's and Gender Studies Program through the College of Liberal Arts office.

## Certificate Program in American Humanics

The UNO American Humanics Program (AH) is a certification program in non-profit leadership designed to prepare students for entry-level management positions. The program is a cooperative effort between American Humanics, Incorporated of Kansas City, Missouri; LSU-Shreveport; and UNO. AH is the first national organization devoted to the preparation of students for careers in youth and human service organizations. It is designed to meet the demand for qualified, mission-driven professional staff for employment in the expanding youth and human services non-profit sector. Interested students should contact the Department of Sociology for further information.

## School of Urban Planning and Regional Studies

UNO's School of Urban Planning and Regional Studies (SUPRS) faculty and students engage with and directly participate in research and service central to the recovery and restoration of the greater New Orleans area. SUPRS offers undergraduate and graduate degrees in Anthropology and Urban Studies, as well as the Master of Urban and Regional Planning (MURP), the only accredited urban planning program within the states of Louisiana, Mississippi, and Arkansas. SUPRS guides students to meet the challenge of simultaneously preserving cultural traditions and building workable twenty-first century communities. The academic programs are supported by the Center for Urban and Public Affairs and the UNO Transportation Institute, both of which offer additional research opportunities to students.

## Department of Anthropology

### Student Learning Outcomes

#### College of Liberal Arts Bachelor of Arts in Anthropology

1. Students will acquire a broad foundation in critical anthropological thinking, as well as knowledge of the history of the discipline.
2. Students will acquire knowledge of and experience in anthropological research methods.
3. Students will be able to communicate, in oral and written forms, on subjects of anthropological significance.
4. Students will be able to competently explain how anthropological theory and methods can be used in applied contexts.

### Degree Requirements

#### College of Liberal Arts Bachelor of Arts in Anthropology

General Education Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
English		Humanities	
ENGL 1157	3	FORL 1001	3
ENGL 1158 or 1159 <sup>1</sup>	3	FORL 1002	3
Mathematics		ENGL Literature	3
MATH 1031, 1115, 1125 or higher	3	Social Sciences	

MATH 1032, 1116, 1126 or higher	3	Social Sciences <sup>9</sup>	6
Science		Arts	
BIOS <sup>2</sup>	3	Arts Elective <sup>3</sup>	3
BIOS or Physical Science <sup>3</sup>	6		
		Total	39

Other Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
FORL 2001/1001	3	Upper-level Non-major Electives <sup>4</sup>	6
FORL 1002	(3) <sup>5</sup>	Social Sciences Elective 2000+ level (Not Anthropology) <sup>6</sup>	6
Literature	3	General Electives	21 or 24
GEOG 1001, 1002 or HIST 1001, 1002 <sup>9</sup>	6		
		Total	48

Course Requirements for Major			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
ANTH 2052	3	ANTH 4801	3
ANTH 3301	3	ANTH 4995 <sup>7</sup>	3
ANTH 4000+ (not 4990)	9	ANTH Area Studies	3
ANTH 4768, 4772. or 4775	3	ANTH Electives <sup>8</sup>	6
		Total	33

Total Credit Hours Required	Credit Hours
	120

- "C" or better required
- 6 hour sequence in one science. Select from BIOS, CHEM, EES, PHYS. 3 hours must be BIOS.
- Check General Education Courses to confirm courses fulfilling this requirement
- Students can fulfill this requirement with courses from the subject areas listed as Liberal Arts Approved Electives, or by taking courses at the 3000+ level in social sciences or arts, thereby fulfilling two requirements at once. The application of a course to two requirements, however, does not reduce the total number of hours required for graduation.
- Must complete nine credit hours in one language or twelve credit hours in two languages. If the 12 hour option is chosen, the 27 hours of approved electives must include three hours of 2000+ humanities.
- Select from ECON, GEOG, POLI, PSYC or SOC. 3 hours must be 2000 level course.
- Course fulfills university oral competency requirement

8. No more than three ANTH credit hours at the 1000 level may count toward the Major
9. GEOG 1001 and 1002 also satisfy the Social Sciences General Education requirement. If this option is selected, 6 hours are added to the General Elective requirement.

### Recommended Four-Year Plan of Study

#### College of Liberal Arts

#### Bachelor of Arts in Anthropology

Four Year Plan of Study			
First Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ENGL 1157	3	ENGL 1158 or 1159	3
MATH	3	MATH	3
BIOS	3	Physical Science	3
GEOG 1001 or HIST 1001	3	GEOG 1002 or HIST 1002	3
ANTH 1xxx <sup>1</sup>	3	ANTH 2052	3
UNIV 1001	1		
Total Hours	16	Total Hours	15

Second Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
Literature	3	Literature	3
BIOS or Other Physical Science	3	Foreign Language 1002	3
Humanities 2000+	3	Social Science 2000+, non ANTH	3
Foreign Language 1001	3	General Elective	3
ANTH 3301	3	ANTH area studies <sup>2</sup>	3
Total Hours	15	Total Hours	15

Third Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
Foreign Language 2001	3	Non Major 3000+ elective	3
Non Major 3000+ elective	3	General Elective	3
General Elective	3	General Elective	3
ANTH 4000+	3	ANTH 4000+	3
ANTH 4768, 4772 or 4775	3	ANTH Elective	3
Total Hours	15	Total Hours	15

Fourth Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
Social Science 2000+, non ANTH	3	ANTH 4995 <sup>4</sup>	3
General Elective	3	General Elective	3
General Elective	3	General Elective	3
ANTH 4801 <sup>3</sup>	3	General Elective	3
ANTH 4000+	3	General Elective	2
Total Hours	15	Total Hours	14
Total Degree Hours			120

1. Only 1 1000 level Anthropology course may count toward the Major.
2. Area studies courses focus on a cultural area and are generally at the 3000 level in Anthropology. One is offered every semester.
3. This course is offered every 3 semesters and should be taken in either the 3rd or 4th year.
4. ANTH 4995 is offered every spring and should be taken as close to graduation as possible.

### Minor in Anthropology

Students who wish to secure a significant background in anthropology while majoring in another area may do so by earning 18 credit hours in anthropology courses, including Anthropology 2052 and at least twelve hours at or above the 3000 level (exclusive of Anthropology 3896 and 4991). Successful completion of these requirements with an average of at least 2.0 in the Minor will result in a Minor in Anthropology.

### Honors in Anthropology

The UNO Honors Program requires a minimum ACT composite score of 30 or a minimum SAT score of 1350 for admittance. The grade point minimum for transfer and continuing students is 3.50. An honors program is available for qualified students who may be admitted by departmental action in the junior year. To secure admission a student must have an overall average of 3.5 and a 3.5 average in Anthropology. The program requires successful completion of at least three hours of Arts and Sciences courses, completion of a 4000-level Anthropology course on the honors level, the completion of an honors thesis, which involves earning six hours in Anthropology 3896, and the maintenance of a grade point average of 3.6 in Anthropology and a cumulative grade point average of 3.25 overall. The honors thesis is to be defended orally before a committee composed of the thesis director, another member of the Anthropology faculty appointed by the department chair, and a representative of the honors program. Students planning to continue in graduate school are strongly advised to take the honors degree in Anthropology.

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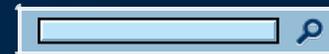
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## College of Sciences

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### Steven Johnson, Dean

The College of Sciences offers degree curricula in biological sciences, chemistry, computer science, earth and environmental sciences, mathematics, physics, and psychology. From course offerings of the various departments, the College of Sciences also prepares students for professional study in medicine, dentistry, medical technology, pharmacy, veterinary medicine, nursing, dental hygiene, occupational therapy, physician's assistant, physical therapy and respiratory therapy. In several of these, a bachelor's degree is granted upon successful completion of a prescribed two- or three-year program at UNO plus specific professional study.

The departments within the College of Sciences are prepared to advise a prospective student or an enrolled student at any time.

### College of Sciences Degree Requirements

The College of Sciences has established the following degree requirements which must be completed by all students working toward a baccalaureate degree. Most curricula demand more than the minimum completions designated here and may call for specific courses where the general requirements allow a choice. Each student is held responsible for knowing degree requirements, for enrolling in courses that fit into his or her degree program, and for taking courses in the proper sequence to ensure orderly progression in the program.

#### Subject Requirements

1. Sciences
 

At least 48 hours in the College of Sciences, to include:

  - a. At least six hours of mathematics. See major for specific course requirements.
  - b. An eight semester-hour sequence including laboratory outside the student's major in one of the following: biological sciences, chemistry, earth and environmental sciences, or physics. The following biological sciences are acceptable: 1073, 1071, 1083, 1081; or 1073, 1071, 2014; or 1083, 1081, 2114. Course descriptions should be consulted for the prerequisites for Biological Sciences 2014 and 2114.
  - c. An additional eight semester hours in science courses other than the student's major. No science credit is given for certain College of Sciences courses designated by the College of Sciences Faculty Council. A list of such courses is available in the College of Sciences office.
2. Humanities and Social Sciences At least 24 hours in the humanities, arts, and social sciences, to include completion of:
  - a. English 1157, and either 1158 or 1159 with a grade of "C" or better.
  - b. At least 9 hours in humanities of which at least 3 hours must be in literature.
  - c. At least 6 hours in the social sciences.

- d. At least 3 hours in arts.

Humanities and social sciences courses must be chosen from the areas of concentration as listed in this Catalog under University Regulations with the exclusion of education courses classified as health-safety or physical education. A maximum of three hours in skill courses in music and art (e.g., piano, voice, drawing) will be accepted as humanities electives. Successful completion of the College of Sciences degree requirements satisfies the University's general education requirements.

## Requirements for the Baccalaureate Degree

The degree of Bachelor of Science may be granted upon satisfactorily meeting the following requirements:

1. Completion of the general degree requirements of UNO.
2. Completion of the degree requirements of the College of Sciences.
3. Completion of a Program of Study established by the department concerned. This program must appear in the student's Catalog as defined by University Regulations; and,
4. Approval of all electives by the College of Sciences.

The College of Sciences assists students in monitoring degree progress by completing graduation check-outs. Each student is responsible for notifying the College of his or her intent to graduate no later than the semester prior to his or her final semester so that a check-out can be prepared in a timely manner. It is the student's responsibility to verify these check-outs with the department of his or her major and discuss any problems with the undergraduate coordinator and the Dean's Office. The College of Sciences requires each student to submit a signed copy of the checkout prior to registration for his or her final semester(s).

## Transfer Students

A transfer student is expected to meet all admission and degree requirements listed above. He or she should consult with a College of Sciences counselor and the undergraduate coordinator of the major department as soon as possible in order to make maximum use of the transfer credit. General science courses are not acceptable as transfer credit. A student may request a reevaluation of a course for which credit is denied if the subject matter covered seems to warrant this action. Acceptance of credit by the University does not mean that this credit may always be applied by the student in the chosen curriculum. The College may decline to accept transfer credits in any course in which a grade lower than C has been received.

A transfer student must meet the quality point averages (Cumulative and departmental) listed in the general degree requirements of the University on work attempted at UNO. In addition, a student transferring from another university is required to earn a minimum of 50% of the hours in his/her major in the College of Sciences at UNO.

## Program Planning

Students should follow the curriculum established by the department as closely as possible. The curricula for the different departments in the College are presented on the following pages. Each student is responsible for the attainment of personal, career, and intellectual objectives. Planning is required if maximum benefit is to be received from the college years; students must examine their own goals and consult an advisor early in order to take full advantage of free electives, science electives, and courses offered to fulfill general degree requirements. For alternative paths to remain available, it is frequently necessary that certain electives be taken during the sophomore year. The departmental advisor or college counselor should be consulted before the end of the freshman year and regularly thereafter.

A normal semester course load is 15 to 16 credit hours. Students who are weak academically must plan either to attend summer school or to extend their program to more than four years. No student may register for more than 19 hours without consent of the Dean and no student on probation may register for more than 13 hours. Students in the College should use discretion in registering for more than 17 hours as this would be above the normal load. New freshmen are advised not to register for more than 16 hours unless they have received advanced math placement. Students employed off campus for more than 15 hours a week should consider their academic potential before attempting normal academic loads.

## Electives

Free electives and science electives should be chosen with great care so that they complement the Major program in a positive way. Duplication of subject matter is to be avoided. Credit will not be given for courses that cover subject matter similar to that in a course for which the student has previously earned credit. Specific examples of overlapping subject matter are found among statistics and computer-oriented courses offered by different departments and among some physics, mathematics, and engineering courses. Care should be taken when electing courses from these areas, and an advisor should be consulted.

All free electives, science electives, and courses submitted to fulfill the general degree requirements must be approved by the student's major department and by the College of Sciences. A wide variety of courses is available to meet these requirements. However, the student should be aware that different departments have different regulations as to what is and what is not acceptable for a degree.

No student in the College of Sciences may use Physics 1001, 1002, 1003, 1004 or any mathematics course below the 2000 level as an elective, unless otherwise stated in a particular curriculum. Courses in certain areas such as academic orientation, chorus, band, health and physical education, military science, engineering drawing, nursing, religion, home economics, agriculture, paralegal studies, office administration, and books and libraries may be accepted as unrestricted electives up to a total of six hours degree credit. If a student feels more than six hours from any one or a combination of these areas is justifiable within the program, he or she may present the case to the College for review. In presenting their case, the student must demonstrate the courses are relevant to his or her educational goals. The request to take additional hours in these areas should be made as early as possible in the student's academic career and must be made before registration for the last 30 hours or the Program of Study.

## Louisiana Universities Marine Consortium

The Louisiana Universities Marine Consortium (LUMCON) is an organization of the public universities in the state (including the University of New Orleans). LUMCON was chartered in 1979 to develop coordinated marine research and education within the state university system and provide coastal facilities for these programs.

LUMCON's principal facility is the Universities Marine Center at Cocodrie. The Center consists of a 50,000 square foot laboratory-dormitory complex, 95 foot and 55 foot research vessels, numerous small vessels and collecting equipment, and docking and service facilities for all the vessels. Satellite facilities with laboratories, accommodations, and small boats are operational at Port Fourchon and at Fearman Bayou. The Port Fourchon Laboratory provides ready access to salt and brackish marshes, the bays and bayous of the Timbalier and Barataria Bay systems, beaches, and the Gulf of Mexico, while the Fearman Bayou Laboratory provides access to a wildlife refuge on Vermillion Bay, brackish and fresh water marshes, and coastal cheniers.

College courses in the marine sciences offered at all three facilities emphasize extensive field experience and studies of living organisms in their natural habitat and in the laboratory. Enrollment in each course may be limited by space and accommodations available at a particular laboratory, but applicants from member institutions of LUMCON will be given priority. Students enrolled at UNO will register for LUMCON courses through UNO and will pay tuition based on the UNO fee schedule. Credit for such courses will be awarded by UNO and will be recorded on student transcripts. For details of marine science courses to be offered at LUMCON facilities, see course offerings in Biological Sciences and consult the Chairs of the Departments of Biological Sciences and Earth and Environmental Sciences.

## Major Programs

Formal curricula are presented below to guide the student in preparing to enter, or in pursuing, a program in the College of Sciences.

## Department of Biological Sciences

The Bachelor of Science degree in the Biological Sciences provides a flexible program of coursework in contemporary biology. After two years of required biology core courses, students take 24 hours of

biology electives.

### Student Learning Outcomes

#### College of Science

#### Bachelor of Science in Biological Sciences

1. Acquire fundamental concepts in the fields of organismal biology, evolutionary biology, genetics, and ecology.
2. Achieve satisfactory adjustment to the university learning environment.
3. Learn core concepts of cellular and molecular biology
4. Attain broad mastery of advanced concepts across the breadth of topics and levels of organization in the biological sciences

### Curriculum in Biological Sciences

#### Bachelor of Science in Biological Sciences

General Education Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
English		CHEM 1017	3
ENGL 1157	3	Humanities	
ENGL 1158 or 1159 <sup>1</sup>	3	Foreign Language I and II <sup>4</sup>	6
Mathematics		Literature <sup>2</sup>	3
MATH 1125 <sup>5</sup>	3	Social Sciences	
MATH 1126 <sup>5</sup>	3	Social Sciences elective <sup>2</sup>	6
Science		Arts	
BIOS 1083	3	Arts elective <sup>2</sup>	3
BIOS 1073	3		
		Total	39

Other Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
CHEM 1007	1	PHYS 1031 or 1061	3
CHEM 1008	1	PHYS 1033 or 1063	1
CHEM 1018	3	PHYS 1032 or 1062	3
CHEM 2217	3	PHYS 1034 or 1065	1
CHEM 3218	3	Approved Electives	25
MATH 2314	3		
		Total	47

Course Requirements for Major			
	Credit		Credit

Course Name/ #	Hours	Course Name/#	Hours
BIOS 1071	1	BIOS Elective <sup>3</sup>	24
BIOS 1081	1	BIOS 4010 (exit exam)	0
BIOS 2014	4		
BIOS 2114	4		
		Total	34

Total Credit Hours Required	Credit Hours
	120

Additional Requirement
Minimum grade of C in all Mathematics and Science courses (BIOS, CHEM, CSCI, EES, MATH, PHYS, PSYC)

- "C" or better required
- Check General education Courses to confirm courses fulfilling this requirement.
- A maximum of 4 hours may be at the 2000 level. A maximum of 7 hours may consist of research/apprenticeship (2002, 2082, 2092, 3092, 4091) or seminar (3091) courses. At least 17 hours must be lecture or lecture/laboratory courses at the 3000/4000 level. At least two of these courses must have a laboratory and at least two courses must be at the 4000 level.
- Completion of six credit hours in one foreign language is required.
- Mathematics 2111, 2112 may be substituted for Mathematics 1125, 1126.

#### Recommended Four-Year Plan of Study Bachelor of Science in Biological Sciences

Four Year Plan of Study			
First Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ENGL 1157	3	BIOS 1083, 1081	4
BIOS 1073, 1071	4	ENGL 1158 or 1159	3
MATH 1125	3	MATH 1126	3
Social Science elective	3	CHEM 1017, 1007	4
Elective (BIOS 1001 - suggested)	1		
UNIV 1001 <sup>1</sup>	1		
Total Hours	15	Total Hours	14

Second Year of Enrollment			
First Term		Second Term	

Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
BIOS 2014	4	BIOS 2114	4
Foreign Language I	3	Foreign Language II	3
CHEM 1018, 1008	4	BIOS elective 2000 level	4
MATH 2314	3	Literature	3
		CHEM 2217	3
<b>Total Hours</b>	<b>14</b>	<b>Total Hours</b>	<b>17</b>

Third Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
BIOS 3000+	3	BIOS 3000+	3
CHEM 3218	3	BIOS 3000+	3
PHYS 1031, 1033	4	PHYS 1032, 1034	4
ARTS	3	Social Science Elective	3
Elective	3		
<b>Total Hours</b>	<b>16</b>	<b>Total Hours</b>	<b>13</b>

Fourth Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
BIOS 3000+	4	BIOS 4010 (exit exam)	0
BIOS 3000+	3	BIOS 3000+	4
Elective	9	Elective	11
<b>Total Hours</b>	<b>16</b>	<b>Total Hours</b>	<b>15</b>
<b>Total Degree Hours</b>			<b>120</b>

1. Required for all first-time full-time students.

#### Minor in Biological Sciences

Departmental and course prerequisites must be observed. Biological Sciences electives may not be chosen from courses designed for non-majors only. Students must achieve a minimal grade point average of 2.0 in at least 19 credit hours of Biological Sciences courses as specified below: Biological Sciences 1073, 1083, 1071, and 1081 – 8 hours, Biological Sciences electives (2000 level or higher, with a maximum of three hours of research courses) – 11 hrs. In the case of transfer students, a minimum of nine credit hours must be earned in Biological Sciences at UNO.

#### Honors in Biological Sciences

An honors program is available to students enrolled in the biological sciences curriculum. To be admitted to the Program a student must have completed Biological Sciences 2014 and 2114, while achieving minimal grade point

averages of 3.25 cumulative and 3.5 in biological sciences. In order to graduate with *Honors in Biological Sciences* the student must complete the curriculum with the minimum grade point averages required for admission to the Program, complete six credit hours in biological sciences honors courses, earn six additional credit hours in Biological Sciences 4091, and defend a written honors thesis before a committee composed of the faculty research director, another faculty member appointed by the chairman, and a representative of the Honors Program.

## Department of Chemistry

A grade of C or better is required in each science and math course offered for degree credit for the Bachelor of Science in Chemistry.

### Student Learning Outcomes

#### College of Science

#### Bachelor of Science in Chemistry

1. Students will demonstrate proficiency in general chemistry content.
2. Students demonstrate ability to work effectively in multi-disciplinary teams.
3. Students are able to conduct independent research and are savvy consumers of published research.
4. Students will be prepared to enter graduate programs in chemistry or related areas of study.
5. The department will maintain high student satisfaction with the program.

### Curriculum in Chemistry

#### Bachelor of Science in Chemistry (No Concentration)

General Education Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
English		PHYS 1062	3
ENGL 1157	3	Humanities	
ENGL 1158 or 1159 <sup>10</sup>	3	Humanities Electives <sup>1</sup>	6
Mathematics		Literature	3
MATH 2114 <sup>2,4</sup>	4	Social Sciences	
MATH 2124 <sup>2,4</sup>	4	Social Sciences Elective <sup>1</sup>	6
Science		Arts	
BIOS 1083	3	Arts elective <sup>1</sup>	3
PHYS 1061	3		
		Total	39

Other Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
Approved MATH Elective <sup>5</sup>	3	CHEM 2017	1
BIOS 1081	1	CHEM 2025	3

BIOS 2114	4	CHEM 2117	3
CHEM 1000	1	CHEM 2217	3
CHEM 1007	1	Computer Programming Elective <sup>9</sup>	3
CHEM 1008	1	PHYS 1063 <sup>7</sup>	1
CHEM 1017	3	PHYS 1065 <sup>8</sup>	1
CHEM 1018	3	General Electives	17
		Total	51 <sup>3</sup>

Course Requirements for Major			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
CHEM 2000	1	CHEM 3411	3
CHEM 3018	3	CHEM 4000	0
CHEM 3027	3	Advanced Chemistry Elective <sup>6</sup>	3
CHEM 3094	4	Advanced Chemistry Elective <sup>6</sup>	3
CHEM 3218	1	Advanced Chemistry Elective <sup>6</sup>	3
CHEM 3310	3	Advanced Chemistry Elective <sup>6</sup>	3
		Total	30

Total Credit Hours Required	Credit Hours
	120

Additional Requirement
Minimum grade of C in all science courses (BIOS, CHEM, CSCI, EES, MATH, PHYS, PSYC)

This degree program is approved by the American Chemical Society (ACS). The department is authorized to certify that graduating students have completed a bachelor's degree meeting the ACS guidelines.

1. Check General Education Courses to confirm what courses fulfill this requirement.
2. 6 credits of Math satisfy the general education requirements.
3. Includes 2 credits of Math listed in General Education Requirements section.
4. Completion of MATH 2107, 2108 and 2 credits of general electives fulfills the requirement for MATH 2114, 2124. Completion of Math 2111, MATH 2112 and 1 credit of general electives fulfills all the math requirements for the BS degree.
5. Must be taken from the following: MATH 2134, 2314, 3511. MATH 1125 and 1126 may be used as general elective hours.
6. Must be taken from the following: CHEM 3096, 3110, 3610, 3710, 4110, 4210, 4310, 4311, 4410, 4510, 4511; BIOS 4103, 4113, 4153, 4173, 4334, 4490 (approval required); 4713; EES 4115; 3 cr. hr. must be at the 4000 level.
7. PHYS 1033 can be used to replace PHYS 1063.
8. PHYS 1034 can be used to replace PHYS 1065.
9. The programming requirement can be fulfilled by CSCI 1201, 1203, 1205, 1581/1583 or CHEM 2310.

10. "C" or better required.

## Curriculum in Chemistry

## Bachelor of Science in Chemistry (Biochemistry Concentration)

General Education Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
English		PHYS 1062	3
ENGL 1157	3	Humanities	
ENGL 1158 or 1159 <sup>1</sup>	3	Humanities Elective <sup>5</sup>	6
Mathematics		Literature	3
MATH 2114 <sup>2,4</sup>	4	Social Sciences	
MATH 2124 <sup>2,4</sup>	4	Social Sciences electives <sup>5</sup>	6
Science		Arts	
BIOS 1083	3	Arts elective <sup>5</sup>	3
PHYS 1061	3		
		Total	39

Other Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
Approved MATH Elective <sup>6</sup>	3	CHEM 2025	3
CHEM 1000	1	CHEM 2117	3
CHEM 1007	1	CHEM 2217	3
CHEM 1008	1	Computer Programming Elective <sup>7</sup>	3
CHEM 1017	3	PHYS 1063 <sup>8</sup>	1
CHEM 1018	3	PHYS 1065 <sup>9</sup>	1
CHEM 2017	1	General Electives	14
		Total	43 <sup>3</sup>

Course Requirements for Major			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
CHEM 2000	1	CHEM 3411	3
CHEM 3018	3	CHEM 4000	0
CHEM 3027	3	Advanced Chemistry Elective <sup>10</sup>	3
CHEM 3094	4	Advanced Chemistry Elective <sup>10</sup>	3

CHEM 3218	1		
CHEM 3310	3		
		Total	24

### Biochemistry Concentration

Course Name/ #	Credit Hours	Course Name/#	Credit Hours
BIOS 3453, 4153, 4334, 4490 (requires prior approval) or 4713	3	BIOS 1081	1
CHEM 4510	3	BIOS 2114	4
CHEM 4511	3		
		Total	14

Total Credit Hours Required	Credit Hours
	120

### Additional Requirements

Minimum grade of C in all science courses (BIOS, CHEM, CSCI, EES, MATH, PHYS, PSYC)

BIOS 4114 and research in biochemistry culminating in a comprehensive written report are highly recommended.

This degree program is approved by the American Chemical Society (ACS). The department is authorized to certify that graduating students have completed a bachelor's degree meeting the ACS guidelines.

- "C" or better required.
- 6 credits of Math satisfy the General Education requirements.
- Includes 2 credits of Math listed in General Education Requirements section.
- Completion of MATH 2111 and MATH 2112 also fulfills all the math requirements for the BS degree.
- Check General Education Courses to confirm courses fulfilling this requirement.
- Must be taken from the following: MATH 2109, 2115 (requires MATH 2109 as prerequisite), 2221, 2314, 3511. Math 1125 and 1126 may be used as general elective hours.
- The programming requirement can be fulfilled by CSCI 1201, 1203, 1205, 1581/1583 or CHEM 2310.
- PHYS 1033 can be used to replace PHYS 1063.
- PHYS 1034 can be used to replace PHYS 1065.
- Must be taken from the following: CHEM 3096, 3110, 3610, 3710, 4110, 4210, 4310, 4311, 4410, 4510, 4511; BIOS 4103, 4113, 4153, 4334, 4490 (approval required); 4713; 3 cr. hr. must be at the 4000 level.

### Curriculum in Chemistry

#### Bachelor of Science in Chemistry (Chemical Physics Concentration)

General Education Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
English		PHYS 1062	3

ENGL 1157	3	Humanities	
ENGL 1158 or 1159 <sup>1</sup>	3	Humanities Electives <sup>5</sup>	6
Mathematics		Literature	3
MATH 2114 <sup>2,4</sup>	4	Social Sciences	
MATH 2124 <sup>2,4</sup>	4	Social Sciences Elective <sup>5</sup>	6
Science		Arts	
BIOS 1083	3	Arts elective <sup>5</sup>	3
PHYS 1061	3		
		Total	39

#### Other Requirements

Course Name/ #	Credit Hours	Course Name/#	Credit Hours
Approved MATH Elective <sup>6</sup>	3	CHEM 2017	1
BIOS 1081	1	CHEM 2025	3
BIOS 2114	4	CHEM 2117	3
CHEM 1000	1	CHEM 2217	3
CHEM 1007	1	CHEM 2310	3
CHEM 1008	1	PHYS 1063 <sup>7</sup>	1
CHEM 1017	3	PHYS 1065 <sup>8</sup>	1
CHEM 1018	3	General Electives	9
		Total	43 <sup>3</sup>

#### Course Requirements for Major

Course Name/ #	Credit Hours	Course Name/#	Credit Hours
CHEM 2000	1	CHEM 3310	3
CHEM 3018	3	CHEM 3411	3
CHEM 3027	3	CHEM 4000	0
CHEM 3094	4	Advanced Chemistry Elective <sup>9</sup>	3
CHEM 3218	1	Advanced Chemistry Elective <sup>9</sup>	3
		Total	24

#### Chemical Physics Concentration

Course Name/ #	Credit Hours	Course Name/#	Credit Hours
Physics Electives beyond the first			

year level	6	CHEM 4311	4
CHEM 4310	4		
		Total	14

Total Credit Hours Required	Credit Hours
	120

Additional Requirement
Minimum grade of C in all science courses (BIOS, CHEM, CSCI, EES, MATH, PHYS, PSYC)

This degree program is approved by the American Chemical Society (ACS). The department is authorized to certify that graduating students have completed a bachelor's degree meeting the ACS guidelines.

- "C" or better required
- 6 credits of Math satisfy the General Education requirements.
- Includes 2 credits of Math listed in General Education Requirements section.
- Completion of MATH 2111 and MATH 2112 also fulfills all the math requirements for the BS degree.
- Check General Education Courses to confirm courses fulfilling this requirement.
- Must be taken from the following: MATH 2109, 2115 (requires MATH 2109 as prerequisite), 2221, 2314, 3511. Math 1125 and 1126 may be used as general elective hours.
- PHYS 1033 can be used to replace PHYS 1063.
- PHYS 1034 can be used to replace PHYS 1065.
- Must be taken from the following: CHEM 3096, 3110, 3610, 3710, 4110, 4210, 4410, 4510, 4511; BIOS 4103, 4113, 4153, 4334, 4490 (approval required); 4713; 3 cr. hr. must be at the 4000 level.

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### Curriculum in Chemistry

#### Bachelor of Science in Chemistry (Forensics Concentration)

General Education Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
English		PHYS 1062	3
ENGL 1157	3	Humanities	
ENGL 1158 or 1159 <sup>1</sup>	3	Humanities Elective <sup>5</sup>	6
Mathematics		Literature	3
MATH 2114 <sup>2,4</sup>	4	Social Sciences	
MATH 2124 <sup>2,4</sup>	4	Social Sciences Elective <sup>5</sup>	6
Science		Arts	
BIOS 1083	3	Arts Elective <sup>5</sup>	3
PHYS 1061	3		
		Total	39

Other Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
BIOS 1081	1	CHEM 2025	3
BIOS 2114	4	CHEM 2117	3
CHEM 1000	1	CHEM 2217	3
CHEM 1007	1	Computer Programming Elective <sup>6</sup>	3
CHEM 1008	1	PHYS 1063 <sup>7</sup>	1
CHEM 1017	3	PHYS 1065 <sup>8</sup>	1
CHEM 1018	3	General Electives	14
CHEM 2017	1		
		Total	45 <sup>3</sup>

Course Requirements for Major			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
CHEM 2000	1	CHEM 3411	3
CHEM 3018	3	CHEM 4000	0
CHEM 3027	3	Advanced Chemistry Elective <sup>9</sup>	3
CHEM 3094	4		
CHEM 3218	1		
CHEM 3310	3		
		Total	21

Forensics Concentration			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
CHEM 1110	3	CHEM 4110	3
CHEM 3110	3	MATH 2314	3
CHEM 4030	3		
		Total	15

Total Credit Hours Required	Credit Hours
	120

Additional Requirements
Minimum grade of C in all science courses (BIOS, CHEM, CSCI, EES, MATH, PHYS, PSYC)

POLI 2450 is recommended. An internship in forensics is highly recommended (if used to receive internship credit, CHEM 3091 may satisfy the CHEM 3094 requirement). BIOS 3453 and 4114 are recommended for students interested in DNA analysis.

This degree program is approved by the American Chemical Society (ACS). The department is authorized to certify that graduating students have completed a bachelor's degree meeting the ACS guidelines.

1. "C" or better required
2. 6 credits of Math satisfy the General Education requirements.
3. Includes 2 credits of Math listed in General Education Requirements section.
4. Completion of MATH 2111 and MATH 2112 also fulfills all the math requirements for the BS degree.
5. Check General Education Courses to confirm courses fulfilling this requirement.
6. The programming requirement can be fulfilled by CSCI 1201, 1203, 1205, 1581/1583 or CHEM 2310.
7. PHYS 1033 can be used to replace PHYS 1063.
8. PHYS 1034 can be used to replace PHYS 1065.
9. Must be taken from the following: CHEM 3096, 3610, 3710, 4210, 4310, 4311, 4410, 4510, 4511; BIOS 4103, 4113, 4153, 4334, 4490 (approval required); 4713; 3 cr. hr. must be at the 4000 level.

### Curriculum in Chemistry

#### Bachelor of Science in Chemistry (Materials Concentration)

General Education Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
English		PHYS 1062	3
ENGL 1157	3	Humanities	
ENGL 1158 or 1159 <sup>1</sup>	3	Humanities Elective <sup>5</sup>	6
Mathematics		Literature	3
MATH 2114 <sup>2,4</sup>	3	Social Sciences	
MATH 2124 <sup>2,4</sup>	3	Social Sciences Elective <sup>5</sup>	6
Science		Arts	3
BIOS 1083	3	Arts Elective <sup>5</sup>	
PHYS 1061	3		
		Total	39

Other Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
Approved MATH Elective <sup>6</sup>	3	CHEM 2017	1
BIOS 1081	1	CHEM 2025	3
BIOS 2114	4	CHEM 2117	3
CHEM 1000	1	CHEM 2217	3
CHEM 1007	1	Computer Programming Elective <sup>7</sup>	3

CHEM 1008	1	PHYS 1063 <sup>8</sup>	1
CHEM 1017	3	PHYS 1065 <sup>9</sup>	1
CHEM 1018	3	General Electives	14
		Total	48 <sup>3</sup>

Course Requirements for Major			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
CHEM 2000	1	CHEM 3310	3
CHEM 3018	3	CHEM 4000	0
CHEM 3094	4	Advanced Chemistry Elective <sup>10</sup>	3
CHEM 3218	1	Advanced Chemistry Elective <sup>10</sup>	3
		Total	18

Materials Concentration			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
CHEM 3027	3	CHEM 3610	3
CHEM 3411	3	CHEM 4410	3
CHEM 3096	3		
		Total	15

Total Credit Hours Required	Credit Hours
	120

Additional Requirement
Minimum grade of C in all science courses (BIOS, CHEM, CSCI, EES, MATH, PHYS, PSYC)

This degree program is approved by the American Chemical Society (ACS). The department is authorized to certify that graduating students have completed a bachelor's degree meeting the ACS guidelines.

- "C" or better required
- 6 credits of Math satisfy the General Education requirements.
- Includes 2 credits of Math listed in General Education Requirements section.
- Completion of MATH 2111 and MATH 2112 also fulfills all the math requirements for the BS degree.
- Check General Education Courses to confirm courses fulfilling this requirement.
- Must be taken from the following: MATH 2109, 2115 (requires MATH 2109 as prerequisite), 2221, 2314, 3511. Math 1125 and 1126 may be used as general elective hours.
- The programming requirement can be fulfilled by CSCI 1201, 1203, 1205, 1581/1583 or CHEM 2310.
- PHYS 1033 can be used to replace PHYS 1063.

9. PHYS 1034 can be used to replace PHYS 1065.
10. Must be taken from the following: CHEM 3110, 3710, 4110, 4210, 4310, 4311, 4510, 4511; BIOS 4103, 4113, 4153, 4334, 4490 (approval required); 4713; 3 cr. hr. must be at the 4000 level.

### Curriculum in Chemistry

#### Bachelor of Science in Chemistry (Medicinal Concentration)

General Education Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
English		PHYS 1062	3
ENGL 1157	3	Humanities	
ENGL 1158 or 1159 <sup>1</sup>	3	Humanities Elective <sup>5</sup>	6
Mathematics		ENGL Literature	3
MATH 2114 <sup>2,4</sup>	3	Social Sciences	
MATH 2124 <sup>2,4</sup>	3	Social Sciences Electives <sup>5</sup>	6
Science		Arts	
BIOS 1083	3	Arts Elective <sup>5</sup>	3
PHYS 1061	3		
		Total	39

Other Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
Approved MATH Elective <sup>6</sup>	3	CHEM 2017	1
BIOS 1081	1	CHEM 2025	3
BIOS 2114	4	CHEM 2117	3
CHEM 1000	1	CHEM 2217	3
CHEM 1007	1	Computer Programming Elective <sup>7</sup>	3
CHEM 1008	1	PHYS 1063 <sup>8</sup>	1
CHEM 1017	3	PHYS 1065 <sup>9</sup>	1
CHEM 1018	3	General Electives	17
		Total	51 <sup>3</sup>

Course Requirements for Major			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
CHEM 2000	1	CHEM 3310	3
CHEM 3018	3	CHEM 3411	3

CHEM 3094	4	CHEM 4000	0
CHEM 3218	1	Advanced Chemistry Elective <sup>10</sup>	3
		Total	18

Medicinal Concentration			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
CHEM 3027	3	CHEM 4210	3
CHEM 3710	3	CHEM 4510	3
		Total	12

Total Credit Hours Required	Credit Hours
	120

Additional Requirement
Minimum grade of C in all science courses (BIOS, CHEM, CSCI, EES, MATH, PHYS, PSYC)
Additional recommended courses include CHEM 4511, BIOS 4114, computer science courses leading to bioinformatics (CSCS 4567), and EES 4115, Toxicology and Human Health.

This degree program is approved by the American Chemical Society (ACS). The department is authorized to certify that graduating students have completed a bachelor's degree meeting the ACS guidelines.

- "C" or better required
- 6 credits of Math satisfy the General Education requirements.
- Includes 2 credits of Math listed in General Education Requirements section.
- Completion of MATH 2111 and MATH 2112 also fulfills all the math requirements for the BS degree.
- Check General Education Courses to confirm courses fulfilling this requirement.
- Must be taken from the following: MATH 2109, 2115 (requires MATH 2109 as prerequisite), 2221, 2314, 3511. Math 1125 and 1126 may be used as general elective hours.
- The programming requirement can be fulfilled by CSCI 1201, 1203, 1205, 1581/1583 or CHEM 2310.
- PHYS 1033 can be used to replace PHYS 1063.
- PHYS 1034 can be used to replace PHYS 1065.
- Must be taken from the following: CHEM 3096, 3110, 3610, 3710, 4110, 4210, 4310, 4311, 4410, 4510, 4511; BIOS 4103, 4113, 4153, 4334, 4490 (approval required); 4713; 3 cr. hr. must be at the 4000 level.

### Recommended Four-Year Plan of Study

#### College of Sciences

#### Bachelor of Science in Chemistry (No Concentration)

Four Year Plan of Study			
First Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
CHEM 1017	3	CHEM 1018	3

CHEM 1007	1	CHEM 1008	1
UNIV 1001 <sup>1</sup>	1	CHEM 1000	1
ENGL 1157	3	ENGL 1158	3
MATH 2114	4	MATH 2124	4
Arts Electives	3	BIOS 1081/1083	4
Total Hours	15	Total Hours	16

Second Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
CHEM 2217	3	CHEM 3018	1
CHEM 2017	1	CHEM 3218	3
CHEM 2000	1	PHYS 1062	3
PHYS 1061	3	PHYS 1065	1
PHYS 1063	1	MATH 2314	3
Humanities or Social Science Elective	3	Humanities or Social Science Elective	3
BIOS 2114	4	ENGL Literature	3
Total Hours	16	Total Hours	17

Third Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
CHEM 2025	3	CHEM 3027	3
CHEM 2117	3	CHEM 3411	3
CHEM 2310	3	Advanced Chemistry	3
CHEM 3310	3	General Elective	1
CHEM 3094	4	Humanities or Social Science Elective	6
Total Hours	16	Total Hours	16

Fourth Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
Advanced Chemistry	3	Advanced Chemistry	3

Advanced Chemistry	3	General Elective	8
General Electives	7	CHEM 4000	0
Total Hours	13	Total Hours	11
Total Degree Hours			120

1. Required for all first-time full-time students.

### Minor in Chemistry

An undergraduate minor in chemistry may be obtained by completing 22 credit hours in chemistry with a grade of C or better in each course. In addition to the required CHEM 1007, 1008, 1017 and 1018, the remaining fourteen credit hours shall be at the 2000-level or higher and come from the following: Chemistry 2017, 2025, 2117, 2217, 2310, 3018, 3027, 3110, 3218, 3310, 3411, 3610, 3710, 4110, 4210, 4310, 4311, 4410, 4510 or 4511. At least nine hours must be completed at UNO.

### Honors in Chemistry

An honors program is available to chemistry majors. Successful completion of the program will result in graduation with Honors in Chemistry. To be eligible for admission to the program, a student must have a 3.25 cumulative grade point average and a 3.5 grade point average in chemistry. To remain in the program a student must maintain these averages. Before graduation, a student must complete at least six credit hours of Chemistry 3099, including an oral defense of the honors thesis to a committee composed of a faculty thesis director, another faculty member selected by the department chair, and a representative of the Honors Program.

## Department of Computer Science

UNO's computer science program is accredited by the Computing Accreditation Commission of the Accreditation Board for Engineering and Technology (CAC/ABET), III Market Place, Suite 1050, Baltimore, MD 21202-4012 - telephone: (410) 347-7700. To earn a Bachelor of Science Degree in Computer Science, a student must earn 120 credit hours as described below, and must satisfy all of the requirements of the University and the College of Sciences. In addition, the following stipulations must be satisfied:

1. Before enrolling in a computer science course, a student must have earned a grade of C or better in all computer science courses which are a prerequisite for it. A grade of C or better must be earned in all science courses, including mathematics and computer science, used to satisfy degree requirements.
2. Computer science electives must be chosen from computer science courses numbered 3000 or above.
3. Mathematics electives must have a prerequisite of at least Mathematics 2124.
4. The science sequence must be one of: Biology 1073, 107 I, 1083, and 1081; or Biology 1073, 1071, and 2014; or Biology 1083, 1081, and 2114; or Chemistry 1017, 1018, 1007 and 1008; or Earth and Environmental Sciences 1000, 1001, 1004, and 1005; or Physics 1061, 1063, 1062, 1065. (In some cases, comparable courses intended for respective majors may also be acceptable.) Science electives must be in biology, chemistry, earth and environmental sciences, or physics, and must include at least three hours in a science other than that of the science sequence. The University requires each student to complete three hours of biology; this requirement may be met through the science sequence, science electives, or free electives.
5. Foreign language electives must include a six-hour sequence.
6. Computer Science 4000 (Senior Comprehensive Examinations) must be passed by the student by the final semester of studies.

Entering freshmen not qualifying for Mathematics 1126 must take Mathematics 1125; this course may be counted toward degree credit.

### Student Learning Outcomes

## College of Science

## Bachelor of Science in Computer Science

1. Acquire and exhibit understanding of the fundamental concepts and processes in software design and development, essential grasp of computing systems, and facility in an applied or theoretical area of computer science.
2. Acquire adequate preparation for a technical computer-related career in business or industry, or for graduate study in computer science or related area.
3. Acquire adequate preparation for employment in the information technology and software industry.
4. Acquire appreciation for, and understanding of, ethical, legal, security, and social issues involving computing.

## Curriculum in Computer Science

## Bachelor of Science in Computer Science

General Education Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
English		BIOS or Physical Science <sup>5</sup>	6
ENGL 1157	3	Humanities	
ENGL 1158 or 1159 <sup>1</sup>	3	FORL Sequence <sup>4</sup>	6
Mathematics <sup>2</sup>		Literature <sup>4</sup>	3
MATH 1126	3	Social Science	
MATH 2114	4	Social Sciences Elective <sup>4</sup>	6
Science		Arts	
BIOS <sup>5</sup>	3	Arts Elective <sup>4</sup>	3
		Total	39

Other Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
CSCI 1583	3	MATH 1125 or elective	3
CSCI 1581	1	MATH 2124	4
CSCI 2120	3	MATH 2314	3
CSCI 2121	1	MATH 3721	3
CSCI 2125	3	MATH <sup>7</sup> or CSCI Electives <sup>8</sup>	6
CSCI 2450	3	Science Electives	3
ENGL 2152	3	Science Labs <sup>6</sup>	2
Elective	4	Humanities or Social Science Elective	3
		Total	49 <sup>3</sup>

Course Requirements for Major			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
CSCI 2467	3	CSCI 4101	3
CSCI 3080	1	CSCI 4125	3
CSCI 3090	1	CSCI 4311	3
CSCI 3102	3	CSCI 4401	3
CSCI 3301	3	CSCI 4501	3
CSCI 4000	0	CSCI 3000 level or above electives	6
		Total	32

Total Credit Hours Required	Credit Hours
	120

Additional Requirement
Minimum grade of C in all science courses (BIOS, CHEM, CSCI, EES, MATH, PHYS, PSYC)

- "C" or better required
- 6 credits of Math satisfy the general education requirements
- Includes 1 credits of Math listed in General Education Requirements section.
- Select from ANTH, ECON, GEOG, POLI, SOC, or URBN. Check General Education Courses to confirm courses fulfilling this requirement.
- 9 hours in science to include a 6 hour sequence in one science and 3 hours in another. One of the sciences must be BIOS and the other must be CHEM, EES, or PHYS. Select the 6 hour sequence from BIOS 1073 and 1083, or CHEM 1017 and 1018, or EES 1000 and 1004, or PHYS 1061 and 1062.
- Select science labs that correspond with the 6 hour science sequence taken for general education requirements. Select from BIOS 1071 and 1081, or CHEM 1007 and 1008, or EES 1001 and 1005, or PHYS 1063 and 1065.
- Math elective must have a prerequisite of at least MATH 2124.
- Computer science electives must be chosen from computer science courses numbered 3000 or above.

### Curriculum in Computer Science

#### Bachelor of Science in Computer Science (Bioinformatics Concentration)

General Education Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
English		Physical Science <sup>5</sup>	3
ENGL 1157	3	Humanities	
ENGL 1158 or 1159 <sup>1</sup>	3	FORL Sequence <sup>4</sup>	6
Mathematics <sup>2</sup>		Literature <sup>4</sup>	3
MATH 1126	3	Social Science	
MATH 2114	4	Social Sciences Elective <sup>4</sup>	6

Science		Arts	
BIOS 1083	3	Arts Elective <sup>4</sup>	3
BIOS 2114	4		
		Total	39

Other Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
CSCI 1583	3	ENGL 2152	3
CSCI 1581	1	MATH 2124	4
CSCI 2120	3	MATH 2314	3
CSCI 2121	1	MATH 3721	3
CSCI 2125	3	General Electives	7
CSCI 2450	3		
BIOS 1081	1		
Humanities or Social Science Elective	3		
		Total	40 <sup>3</sup>

Course Requirements for Major			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
CSCI 2467	3	CSCI 4101	3
CSCI 3080	1	CSCI 4125	3
CSCI 3090	1	CSCI 4311	3
CSCI 3102	3	CSCI 4401	3
CSCI 3301	3	CSCI 4501	3
CSCI 4000	0		
		Total	26

Bioinformatics Concentration			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
CSCI 4567	3	CSCI 4588	3
CSCI 4568	3	CSCI 4587	3
CSCI 4595	3		
		Total	15

Total Credit Hours Required	Credit Hours
	120

Additional Requirement
Minimum grade of C in all science courses (BIOS, CHEM, CSCI, EES, MATH, PHYS, PSYC)

- "C" or better required
- 6 credits of Math satisfy the general education requirements
- Includes 1 credit of Math and 1 credit of BIOS listed in general education requirements section
- Check General Education Courses to confirm courses fulfilling this requirement.
- Must be chosen from CHEM, EES or PHYS.

### Curriculum in Computer Science

#### Bachelor of Science in Computer Science (Game Development Concentration)

General Education Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
English		BIOS or Physical Science <sup>5</sup>	6
ENGL 1157	3	Humanities	
ENGL 1158 or 1159 <sup>1</sup>	3	FORL Sequence <sup>4</sup>	6
Mathematics <sup>2</sup>		Literature <sup>4</sup>	3
MATH 1126	3	Social Science	
MATH 2114	4	Social Sciences Elective <sup>4</sup>	6
Science		Arts	
BIOS <sup>5</sup>	3	Arts Elective <sup>4</sup>	3
		Total	39

Other Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
CSCI 1583	3	MATH 1125 or elective	3
CSCI 1581	1	MATH 2124	4
CSCI 2120	3	MATH 2314	3
CSCI 2121	1	MATH 3721	3
CSCI 2125	3	Science Labs <sup>7</sup>	2
CSCI 2450	3	Humanities or Social Science Elective	3
ENGL 2152	3		
Elective	4		

		Total	40 <sup>3</sup>
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### Course Requirements for Major

Course Name/ #	Credit Hours	Course Name/#	Credit Hours
CSCI 2467	3	CSCI 4101	3
CSCI 3080	1	CSCI 4125	3
CSCI 3090	1	CSCI 4311	3
CSCI 3102	3	CSCI 4401	3
CSCI 3301	3	CSCI 4501	3
CSCI 4000	0		
		Total	26

### Game Development Concentration

Course Name/ #	Credit Hours	Course Name/#	Credit Hours
CSCI 4631	3	CSCI 4675	3
CSCI 4661	3	Team Oriented CSCI Elective <sup>6</sup>	3
CSCI 4670	3		
		Total	15

Total Credit Hours Required	Credit Hours
	120

### Additional Requirement

Minimum grade of C in all science courses (BIOS, CHEM, CSCI, EES, MATH, PHYS, PSYC)

- "C" or better required
- 6 credits of Math satisfy the general education requirements
- Includes 1 credit of Math listed in general education requirements section
- Check General Education Courses to confirm courses fulfilling this requirement.
- 9 hours in science to include a 6 hour sequence in one science and 3 hours in another. One of the sciences must be BIOS and the other must be CHEM, EES, or PHYS. Select the 6 hour sequence from BIOS 1073 and 1083, or CHEM 1017 and 1018, or EES 1000 and 1004, or PHYS 1061 and 1062.
- Choose either CSCI 4210 or 4621.
- Select science labs that correspond with the 6 hour science sequence taken for general education requirements. Select from BIOS 1071 and 1081, or CHEM 1007 and 1008, or EES 1001 and 1005, or PHYS 1063 and 1065.

### Curriculum in Computer Science

#### Bachelor of Science in Computer Science (Information Assurance Concentration)

### General Education Requirements

Course Name/ #	Credit Hours	Course Name/#	Credit Hours
English		BIOS or Physical Science <sup>5</sup>	6
ENGL 1157	3	Humanities	
ENGL 1158 or 1159 <sup>1</sup>	3	FORL Sequence <sup>4</sup>	6
Mathematics <sup>2</sup>		Literature <sup>4</sup>	3
MATH 1126	3	Social Science	
MATH 2114	4	Social Sciences Elective <sup>4</sup>	6
Science		Arts	
BIOS <sup>5</sup>	3	Arts Elective <sup>4</sup>	3
		Total	39

Other Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
CSCI 1583	3	MATH 1125 or elective	3
CSCI 1581	1	MATH 2124	4
CSCI 2120	3	MATH 2314	3
CSCI 2121	1	MATH 3721	3
CSCI 2125	3	MATH <sup>7</sup> or CSCI Elective <sup>8</sup>	3
CSCI 2450	3	Science Electives	3
ENGL 2152	3	Science Labs <sup>6</sup>	2
Elective	1	Humanities or Social Science Elective	3
		Total	43 <sup>3</sup>

Course Requirements for Major			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
CSCI 2467	3	CSCI 4101	3
CSCI 3080	1	CSCI 4125	3
CSCI 3090	1	CSCI 4311	3
CSCI 3102	3	CSCI 4401	3
CSCI 3301	3	CSCI 4501	3
CSCI 4000	0		
		Total	26

Information Assurance Concentration			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
CSCI 4621	3	Project Oriented CSCI Elective (Choose CSCI 4208, 4402, 4460, or 4620)	3
CSCI 4623	1	Non-technical elective (Choose MANG 4410 or POLI 4410)	3
		Total	12

Total Credit Hours Required	Credit Hours
	120

Additional Requirement
Minimum grade of C in all science courses (BIOS, CHEM, CSCI, EES, MATH, PHYS, PSYC)

- "C" or better required
- 6 credits of Math satisfy the general education requirements
- Includes 1 credit of Math listed in general education requirements section
- Check General Education Courses to confirm courses fulfilling this requirement.
- 9 hours in science to include a 6 hour sequence in one science and 3 hours in another. One of the sciences must be BIOS and the other must be CHEM, EES, or PHYS. Select the 6 hour sequence from BIOS 1073 and 1083 (recommended), or CHEM 1017 and 1018, or PHYS 1031 and 1032, or PHYS 1061 and 1062.
- Select science labs that correspond with the 6 hour science sequence taken for general education requirements. Select from BIOS 1071 and 1081, or CHEM 1007 and 1008, or PHYS 1033 and 1034, or PHYS 1063 and 1065.
- MATH electives must have a prerequisite of at least Math 2124.
- CSCI electives must be at the 3000 level or above.

### Recommended Four-Year Plan of Study

College of Sciences

Bachelor of Science in Computer Science

Four Year Plan of Study			
First Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
MATH 1125 or Free Elective	3	CSCI 1583	3
ENGL 1157	3	CSCI 1581	1
Social Science Elective	3	MATH 1126	3
Art Elective	3	ENGL 1158 or 1159	3
UNIV 1001 <sup>1</sup>	1	Social Science Elective	3
Total Hours	13	Total Hours	13

Second Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
CSCI 2120	3	CSCI 2125	3
CSCI 2121	1	CSCI 2467	3
CSCI 2450	3	MATH 3721	3
MATH 2107	3	MATH 2108	3
ENGL Literature	3	Foreign Language II	3
Foreign Language I	3		
Total Hours	16	Total Hours	15

Third Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
CSCI 3102	3	CSCI 4101	3
CSCI 3301	3	CSCI 4125	3
MATH 2114	4	MATH 2314	3
CSCI/MATH elective	3	CSCI/MATH Elective	3
ENCENGL 2152	3	Humanities/Social Science elective	3
		Free elective	3
Total Hours	16	Total Hours	17

Fourth Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
CSCI 4311	3	CSCI 3080	1
CSCI 4401	3	CSCI 3090	1
CSCI 3000 level or above elective	3	CSCI 4000	0
Science sequence lecture	3	CSCI 4501	3
Science sequence lab	1	CSCI 3000 level or above elective	3
Science elective	2	Science sequence lecture	3
		Science sequence lab	1
		Science elective	3
Total Hours	15	Total Hours	15

Total Degree Hours

120

1. Required for all first-time full-time students.

### Minor in Computer Science

An undergraduate majoring in a department other than Computer Science may earn a minor in Computer Science by completing the following computer science courses each with a grade of C or better: Computer Science 1581, 1583, 2120, 2121, 2125, 2450, 3301, and one three-credit 4000-level course selected from an approved list. (It should be noted that credit or concurrent enrollment in Mathematics 3721 is required for Computer Science 2125.) A transfer student must complete a minimum of nine credit hours in required computer science courses at UNO, and these must include Computer Science 2125 and a three credit 4000-level course from the approved list.

### Honors in Computer Science

An honors program is available to Computer Science majors. Successful completion of the program will result in graduation with Honors in Computer Science. To be eligible for admission to the program, a student must complete Computer Science 2125 and must have a faculty member willing to serve as thesis advisor. The student must also maintain a cumulative grade point average of 3.25 or better and a grade point average of 3.5 or better in Computer Science courses. In order to remain in the program, a student must maintain these averages.

In order to complete the program a student must do the following:

1. fulfill all graduation requirements for the Bachelor of Science in Computer Science;
2. maintain a cumulative grade point average of 3.25 or better and a grade point average of 3.5 or better in computer science courses;
3. earn six credits in Computer Science 3099;
4. produce a written honors thesis and conduct an oral defense before a committee consisting of the faculty thesis advisor, at least one other faculty member selected by the department chairman, and a representative of the Honors Program.

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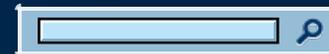
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## Courses of Instruction

Courses offered during the academic year covered by this Catalog will be selected from those described on the following pages. The course number is shown to the left of the Title. The significance of the four digit numbering system is:

### First digit

- "0" - indicates the course does not carry degree credit
- "1" - indicates the course is taught at an introductory or freshman level
- "2" - indicates the course is taught at an intermediate level or at an introductory level within a specific discipline; oftentimes require freshman level prerequisite completion
- "3" - typically referred to as junior level or upper-division courses; indicates the course is oftentimes taught at a level requiring both freshman and sophomore level prerequisite completion
- "4" - typically referred to as senior level or upper-division courses; indicates the course is almost always taught at a level requiring junior level prerequisite completion
- "5" - those courses offered at the graduate level (typically in conjunction with an undergraduate level class but requires additional academic work)
- "6" - those courses offered for graduate students only
- "7" - those courses offered for graduate students only

### Second digit

Many areas use the second digit to designate sub-areas within their areas. Otherwise the second digit has no significance.

### Third digit

The third digit has no specific meaning except when it is the figure nine. A nine as the third digit means that the course content varies from semester to semester.

### Fourth digit

The fourth digit has no specific significance unless it is the figure nine.

Courses numbered "1000" – "4999" are available for undergraduate students only. Graduate students should not enroll in undergraduate courses. Courses numbered in the "5000" range and above are available for graduate students only.

Shown on the same line with the Title of the course is the designation of the credit hours which the course carries. The credit hour value is generally based on the number of class hours per week. One hour of classroom work per week is usually valued at one credit hour. Some departments give one credit hour for two hours of laboratory work per week while some require three or more hours of laboratory work for one credit hour.

Normally, if the course consists solely of lecture, or lecture-discussion type meetings, the number of meetings per week will be the same as the credit hours earned for the course and no statement is made as to the type or

number of meetings per week. In other situations, the type and number of meetings is usually stated.

The following are the different colleges and courses offered:

- |                                                        |                                             |
|--------------------------------------------------------|---------------------------------------------|
| Academic Orientation                                   | German                                      |
| Accounting                                             | Health-Safety Education                     |
| Aerospace Studies                                      | History                                     |
| Anthropology                                           | Hotel, Tourism & Restaurant Administration  |
| Arts and Sciences                                      | Human Performance                           |
| Arts Administration                                    | Humanities                                  |
| Biological Sciences                                    | Interdisciplinary Studies                   |
| Business Administration                                | International Studies                       |
| Chemistry                                              | Italian                                     |
| Chinese                                                | Japanese                                    |
| Civil and Environmental Engineering                    | Journalism                                  |
| Computer Science                                       | Latin                                       |
| Cooperative Education-Business Administration Majors   | Management                                  |
| Cooperative Education-Education Majors                 | Marketing                                   |
| Cooperative Education-Engineering Majors               | Mathematics                                 |
| Cooperative Education-Interdisciplinary Studies Majors | Mechanical Engineering                      |
| Cooperative Education-Liberal Arts Majors              | Military Science                            |
| Cooperative Education-Sciences Majors                  | Music                                       |
| Education                                              | Naval Architecture and Marine Engineering   |
| Counselor Education                                    | Naval ROTC                                  |
| Curriculum and Instruction                             | Organizational Leadership                   |
| Earth and Environmental Sciences                       | Philosophy                                  |
| Economics                                              | Physics                                     |
| Educational Administration                             | Political Science                           |
| Educational Foundations and Research                   | Psychology                                  |
| Electrical Engineering                                 | Quantitative Methods-Business & Economics   |
| Engineering                                            | Romance Languages                           |
| Engineering and Applied Sciences                       | Sociology                                   |
| Engineering Management                                 | Spanish                                     |
| English                                                | Special Education and Habilitative Services |
| Film and Theatre Arts                                  | University Success                          |
| Finance                                                | Urban Studies                               |
| Fine Arts                                              | Master of Urban and Regional Planning       |
| Foreign Languages                                      | Master of Public Administration             |
| French                                                 | Doctor of Urban Studies                     |
| Geography                                              | Women's and Gender Studies                  |



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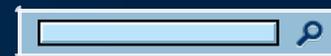
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## Financial Aid

The Office of Enrollment Services is responsible for processing financial aid programs, including Federal Grants, Federal Direct Student Loans, Scholarships, and Student Employment (part-time campus work). Students interested in receiving financial aid should first complete the Free Application for Federal Student Aid (FAFSA) and be accepted for admission to the university. A list of many deadlines and helpful information about financing your UNO education is available from the Office of Student Financial Aid or online at <http://www.uno.edu/finaid/index.aspx>. This office will evaluate each student's eligibility based upon information received from the Federal Student Aid Center, in accordance with the financial aid policy below.

Information about student aid, the FAFSA, and other financial aid forms may be obtained either from the Office of Student Financial Aid, University of New Orleans, in the Privateer Enrollment Center, located in the Earl K. Long Library - First Floor, New Orleans, LA 70148 or from the UNO website <http://www.uno.edu/finaid/index.aspx>

### Financial Aid Policy

A student must be admitted into the University as a degree seeking student in an eligible curriculum to be considered for financial aid and meet ALL Federal, State, and Institutional requirements.

In determining the eligibility for financial assistance, the Office of Student Financial Aid is guided by the data supplied by the parents and/or student on the FAFSA. The University uses the following mandated formula to determine a student's eligibility for Title IV Federal Financial Aid programs.

$$\text{Cost of Attendance (COA)} - \text{Expected Family Contribution (EFC)} = \text{Financial Need}$$

The term Cost of Attendance (COA) refers to an estimate of total expenses that students may incur while attending school for the academic year, including direct institutional costs (tuition, fees, books etc.) as well as indirect costs. Your actual direct cost should not be confused with your federal financial aid cost of attendance.

The EFC is a number that is determined by the information reported on your FAFSA. The EFC is calculated according to a formula established by federal law. Your family's taxed and untaxed income, assets, and benefits (such as unemployment or Social Security) will be considered in the formula. Also considered are your family size and the number of family members who will attend college or career school during the year.

The University attempts to provide the difference between the Cost of Attendance and the Expected Family Contribution. Financial Aid packages cannot exceed the student's Cost of Attendance.

On approximately May 1 of each award year is the priority deadline date for processing of financial aid. Students interested in participating in one of the federal or state student financial assistance programs at UNO (Federal Pell Grant, Federal Supplemental Educational Opportunity Grant, Federal College Work-Study Program, Louisiana GO Grant, Leveraging Educational Assistance Partnership Grant, Federal Perkins Loan, or the Federal Direct Program [i.e., Federal Direct Subsidized, Federal Direct Unsubsidized, Federal Grad Plus and Federal Direct Parent Loans] MUST file a completed FAFSA. Forms may be obtained from high school counselors, the UNO

Office of Student Financial Aid, or online at [www.fafsa.ed.gov](http://www.fafsa.ed.gov). Students must complete the FAFSA each year in which they are enrolled! The FAFSA/Renewal FAFSA is generally made available January 1st of each year.

When students are awarded aid, they are "packaged financial aid" annually for the Fall and Spring semesters, combined. Students wishing to attend the Summer semester may apply for residual aid that was not used during the Fall and Spring semesters or additional available funding by completing a Summer Financial Aid Request Form. The Summer Request Form is made available on March 15th of each year. Subsequent annual award packages are based upon the data supplied on the Renewal FAFSA and upon the student making Satisfactory Academic Progress. A copy of the university's Satisfactory Academic Progress policy may be obtained from the Office of Student Financial Aid or online at <http://finaid.uno.edu/forms.aspx>

## Satisfactory Academic Progress (SAP) Policy

Federal regulations require all students receiving Title IV Financial Aid to maintain Satisfactory Academic Progress (SAP). Title IV Financial Aid Programs include: Pell Grant, Supplemental Educational Opportunity Grant (SEOG), Teacher Education Assistance for College and Higher Education Grant (TEACH), Perkins, Direct Subsidized Stafford Loan, Direct Unsubsidized Stafford Loan, PLUS and GRAD PLUS Loans, and Work-Study.

To meet the SAP requirements for federal aid, students must meet the standards indicated below at the end of each semester:

- Students must earn a minimum GPA (qualitative measure),
- Students must successfully complete a minimum percentage of credits (quantitative measure), and,
- Students must be able to graduate within a maximum timeframe.

Courses/Credits which have been granted scholastic amnesty are still reviewed for SAP. Failure to meet any of the SAP requirements will result in a loss of eligibility for federal financial aid.

### Qualitative Measure of Progress (GPA Requirement)

The qualitative requirement defines the minimum GPA that must be earned at the end of each semester. An incomplete grade (I-grades) will be treated as an "F" for the purpose of SAP. Repeated courses will be included in the GPA calculation, but grade suspended courses will not be included in the GPA calculation. New transfer students should note that effective Summer 2013, quality points (grades) from other schools will not be used in the cumulative GPA for UNO's SAP review. A UNO student must maintain the following cumulative GPA at the end of each semester:

Minimum Cumulative GPA	
Undergraduate Students	2.0 or higher
Post Baccalaureate Students	2.0 or higher
Graduate Students	3.0 or higher

### Quantitative Measure of Progress (Pace & Maximum Timeframe Limit)

The quantitative requirement contains two components, Pace and Maximum Timeframe. All credit hours/courses attempted at UNO are counted in the attempted/earned calculation, including scholastic amnesty credits, remedial courses, and courses assigned a W, I, AU, XF, UW, P/S/U, NG, F. Transfer credit hours/courses attempted at a regionally accredited school will count in the Pace and Maximum Timeframe. Repeated and grade suspended courses will be counted each time a student attempts the course, however, the course can be counted only once for earned credit towards the degree. A UNO student must meet the following Pace and Maximum Timeframe requirements at the end of each semester:

#### Pace

- All students must successfully earn credit for 70% of the courses attempted at UNO.

Students transferring into UNO must have successfully completed 70% of the courses/credits attempted at regionally accredited schools.

### Maximum Time Frame Limit

- All undergraduate students who have not officially graduated with their first baccalaureate degree must be able to complete their primary degree at UNO within 180 attempted hours regardless of the number of majors.
- Post baccalaureate students may receive their eligible federal aid award up to 225 attempted hours, which will include all courses/credits pursued as an undergraduate student.
- Graduate students maximum timeframe limit is based on individual program of study.

Find maximum timeframe for federal aid based on program at <http://www.uno.edu/finaid/docs/2013-2014/Time-Frame-Graduate.pdf>

All questions pertaining to student financial aid should be directed to the Office of Student Financial Aid. Office of Student Financial Aid, University of New Orleans, in the Privateer Enrollment Center, located in the Earl K. Long Library - First Floor, New Orleans, LA 70148 or from the UNO website; <http://www.uno.edu/finaid/index.aspx>

## Grants

Federal Pell Grants are available to eligible undergraduates who have not yet attained a bachelor's degree. The maximum amount of the grant will be set by the U.S. Department of Education based on congressional appropriations. The actual amount of the grant is determined by the Expected Family Contribution (EFC). Eligible students can only receive Federal Pell Grant funding up to 6 years (600%).

To determine how much of the maximum six years (600%) of Pell Grant a student has used each year, the U.S. Department of Education (ED) compares the actual amount the student received for the award year with the scheduled award amount for that award year. If the student receives the full amount of their scheduled award, they will have used 100%. It is possible students may not receive an entire scheduled award for an award year. There are a number of reasons for this, the most common of which are that they are not enrolled for the full year or that they are not enrolled full-time, or both.

If a student did not receive the full amount of a scheduled award, the percentage of the scheduled award that was received is calculated. For example, if the student's scheduled award for an award year is \$5,000, but because they were enrolled for only one semester they received only \$2,500, and thus would have received 50% of the scheduled award for that award year.

Lifetime Eligibility Used (LEU): ED keeps track of a student's LEU by adding together the percentages of their Pell Grant scheduled awards that were received for each award year.

## Louisiana Go Grant

**Eligibility for the Louisiana Go Grant, students must:**

- Be a Louisiana Resident;\*
- File a Free Application for Federal Student Aid (FAFSA);
- Receive a federal Pell grant or a financial need grant;
- Have remaining financial need after deducting Estimated Family Contribution (EFC) and all federal/state/institutional grant or scholarship aid ("gift aid") from student's Cost of Attendance (COA);
- Be a student enrolled in an eligible Louisiana institution as of the 14th class day on at least a half-time basis (minimum 6 hours at semester school or 4 hours at a quarter school).

**Award Amounts - Louisiana Go Grant\*\***

Award amounts to eligible students are based on the institution's allocation and their packaging policy. Awards may vary with each academic year. Awards will not be paid for Summers sessions, quarters or terms.

### Renewal Requirements - Louisiana Go Grant

- Must file a FAFSA or the Renewal FAFSA at least annually;
- Continue to receive a Federal Pell Grant;
- Have remaining financial need after deducting Estimated Family Contribution (EFC) and all federal/state/institutional grant or scholarship aid ("gift aid") from student's Cost of Attendance (COA).
- The Award can be renewed for subsequent years to a maximum lifetime award that correlates to that of the Federal Pell Grant.

### \*Residency Requirements - Louisiana Go Grant

A student must be a Louisiana resident as of the day the FAFSA is filed and Louisiana is the student's true and fixed domicile as reported on the FAFSA. If a student's state of residence on the FAFSA is not reported as Louisiana, but a dependent student claims that a non-custodial parent is a Louisiana resident, or that parents are Louisiana residents living out of state, Louisiana Office of student financial assistance (LOSFA) will determine residency based on the completion, by the parents, of a residency affidavit.

## Federal Supplemental Educational Opportunity Grants (FSEOG)

FSEOG grants are available to degree seeking undergraduate students who have not yet attained a bachelor's degree. The amount of the award is based upon availability of funds and must be given to the UNO students with the most need, according to the Estimated Family Contribution as determined by the FAFSA.

## Teach Grant

The College Cost Reduction and Access Act of 2007 created the Teacher Education Assistance for College and Higher Education (TEACH) Grant Program which awards grants to students who intend to teach.

The TEACH Grant recipient's obligation is to serve as a highly qualified, full-time teacher in a high-need subject area for at least four years within eight years of finishing the program at a school serving low-income students/families (see important note below).

**IMPORTANT NOTE:** Recipients who do not complete their teaching obligation will have to repay the TEACH Grants as if the grants were a Federal Direct Unsubsidized Loan, with interest accruing from the time the grant was disbursed.

These are the initial requirements to be considered to participate in the Teach Grant program:

1. Students must complete the Free Application for Federal Student Aid (FAFSA) online at [www.FAFSA.ed.gov](http://www.FAFSA.ed.gov). You do not have to demonstrate financial need to be eligible for the TEACH grant program;
2. Students must be a U.S. Citizen or eligible non-citizen;
3. Students must be enrolled as a degree-seeking undergraduate or graduate student in the College of Education, in a major/program that is necessary to begin a career in teaching in a high-need subject area. (GCTEP, GPTEP, Post Baccalaureate and Doctoral students cannot qualify for the TEACH Grant
4. Students must meet the following academic achievement requirements:
  - a. Score above the 75th percentile on one of the following college. Admission's tests SAT, ACT for undergraduate students and GRE for graduate students.
  - b. Have a Cumulative GPA of at least 3.25 on a 4.0 scale, and maintain a cumulative GPA of at least 3.25 throughout their academic program for which they receive a TEACH Grant.
  - c. Complete TEACH Grant online counseling each year.
5. Sign an Agreement to Serve and Promise to Pay (ATS) each year with the U.S. Department of Education. [www.teach-ats.ed.gov](http://www.teach-ats.ed.gov)

### Award Amounts for Teach Grants

The TEACH Grant Program provides eligible undergraduate students up to \$4,000.00\* per year (\$16,000.00\* maximum eligibility). Graduate students are also eligible for up to \$4,000.00\* per year (\$8,000.00\* maximum eligibility). Eligible students will have funds disbursed based on the number of hours enrolled during each semester, as of the 14th day of class.

\*The Budget Control Act of 2011 is now in effect and award amounts for any TEACH Grant that is disbursed after March 1, 2013 must be reduced by 6.0 percent from the award amount for which a recipient would otherwise have been eligible. For example, the maximum award of \$4,000 is reduced by \$240, resulting in a maximum award amount of \$3,760.

For additional information regarding the TEACH Grant program, you may go online at [www.teachgrant.ed.gov](http://www.teachgrant.ed.gov), or contact the U.S. Department of Education at 1-800-4FEDAID (800/433-3243) or contact our office at [finaid@uno.edu](mailto:finaid@uno.edu). If you have already completed your 2013-2014 FAFSA and did not indicate you were interested in this program, please complete the ATS with the Federal Dept. of Education to initiate the eligibility review process by our office.

## Loans

Several loan programs are available to students at UNO. These loan programs operate with the understanding that the student will repay the borrowed amount under the terms of the loan.

Loans are available to students from the Federal Direct Student Loan Program, the Federal Perkins Loan Program and the Federal Direct GRAD Plus Program. Parents of dependent students may also apply for the Federal Direct PLUS Loan for Parents. Additional information about this program may be viewed at <http://federalstudentaid.ed.gov/>. You may also inquire about other financial aid programs and/or alternative student loans with the Office of Student Financial Aid.

## Federal Direct Loan Program

Federal Direct Loans are low-interest loans for students and parents to help pay for the cost of a student's education after high school. The lender is the U.S. Department of Education rather than a bank.

### Federal Direct Subsidized and Unsubsidized Loans

Eligibility for Federal Direct Subsidized and Unsubsidized Loans is based on the information reported on the Free Application for Federal Student Aid (FAFSA). No interest is charged on subsidized loans while a student is enrolled at least half-time, during a student's grace (period after graduation), and during deferment periods. Interest is charged on unsubsidized loans during all periods.

If a student is a first-time borrower on or after July 1, 2013, there is a limit on the maximum period of time (measured in academic years) they may receive Direct Subsidized Loans. This time limit does not apply to Direct Unsubsidized Loans or Direct PLUS Loans. If this limit applies to the student, they may not receive Direct Subsidized Loans for more than 150 percent of the published length of their Program of Study. This is called a "maximum eligibility period." A student's maximum eligibility period is based on the published length of their current Program of Study. For example, if a student is enrolled in a four-year bachelor's degree program, the maximum period for which they can receive Direct Subsidized Loans is six years (150 percent of 4 years = 6 years).

Because a student's maximum eligibility period is based on the length of their current Program of Study, the maximum eligibility period can change if the student changes to a Program of Study that has a different length. Also, if the student receives Direct Subsidized Loans for one Program of Study and then change to another Program of Study, the Direct Subsidized Loans received for the earlier program will count toward the student's maximum eligibility period.

Federal Direct Subsidized and Unsubsidized Loans are available to most students who are enrolled at least half-time and who meet certain qualifications. A Federal Direct Subsidized Stafford loan is awarded to undergraduate students that demonstrate federal financial need. The Federal Direct Unsubsidized Stafford Loan are loan funds in which the student does not demonstrate federal financial need and the student is responsible for the interest payment on this loan program while the student is in school. Loans are made in

amounts up to \$3,500 for freshman, \$4,500 for sophomores, and up to \$5,500 for juniors and seniors. Graduate students are eligible to apply for up to \$20,500 per academic year - depending on the Cost of Attendance - Effective July 1, 2012, Graduate students are only eligible for the Federal Direct Unsubsidized Loan and Federal PLUS - (NO Subsidized Loan funds).

Independent and dependent students may apply for additional Direct Unsubsidized Stafford Loan funds in amounts between \$2,000 - \$7,000 (depending on student's dependency status and classification) and up to \$20,500 for graduate students (depending on student's Cost of Attendance). There are both annual and aggregate loan limits for these programs.

Students are required to complete an Entrance Counseling Interview and a Federal Direct Master Promissory Note (MPN) before a loan can be disbursed. A Master Promissory Note and an Entrance Counseling must be completed ([www.studentloans.gov](http://www.studentloans.gov)) to receive the Stafford Loan. Repayment of student loans is not required while the student is enrolled in school at least half-time. The student may choose to defer their interest payment on a Federal Direct Unsubsidized Loan – this request can be indicated on the Master Promissory Note. Students should read all information provided about the terms and conditions of a Federal Direct Student Loan prior to accepting a loan or signing a promissory note.

### Federal Direct PLUS Loans

Federal Direct PLUS Loans are low-interest loans available to parents of dependent students and to graduate and professional degree students. Interest is charged during all periods. This program requires a credit check to confirm credit worthiness. Eligible parents can obtain additional funding to help pay the cost of educational expenses for their dependent undergraduate child(ren). It is required that the student file the FAFSA before applying for this program. The eligibility amount is determined by a Financial Aid Administrator.

### Federal Direct GRAD Plus

Federal Direct GRAD Plus is a loan program designed for Graduate/Professional students to obtain educational financial assistance in addition to the Stafford Loan Program. This program requires a credit check to confirm credit worthiness. A student must complete the FAFSA to be considered and the eligibility amount is determined by a Financial Aid Administrator.

## Campus-Based Loan Program

### Federal Perkins Loans

Federal Perkins Loans are available to qualifying students based upon availability of funds. No repayment is due and no interest is charged as long as the student is attending school in at least half-time enrollment. After the student has left the University or drops below half-time status, he or she must begin repaying the loan after the nine (9) month grace period at an interest rate of five (5) percent per year. In order for the funds to disburse, a student must complete a Perkins Promissory Note at [www.signmyloan.com](http://www.signmyloan.com). Please contact the Federal Perkins Loan Coordinator, at 504-280-6506 or [ptakac1@uno.edu](mailto:ptakac1@uno.edu)

### Student Employment (Federal College Work-Study/Budget Work-Study)

Many departments and other areas of the University employ students (Federal or Budget) in part-time jobs on campus. Such employment must be approved by the Office of Student Financial Aid. All part-time jobs provide basic equity in the rates paid students for similar jobs within the University. The rate paid depends on the nature of the work, the student's classification in college, and his or her skills and previous work experience.

There are a limited number of Student Employment opportunities. Students expressing an interest in student employment, who enroll in classes and meet the employment requirements, must be interviewed by the various colleges/departments in which the student will potentially be placed. The interview and hiring process must be completed and approved prior to hiring/the student's start date. Therefore, an applicant should not assume that they will automatically be placed in a position.

### Federal College Work-Study Program

Federal Work-Study students may hold only one part-time job at UNO, and he or she must be enrolled at

least half-time during the regular semester, and must be meeting Satisfactory Academic Progress (SAP).

The Federal Work-Study Program is a campus-based program which provides on-campus and off-campus part-time jobs for undergraduate and graduate students who demonstrate financial need. This self-help aid program allows students to earn money to assist in paying for educational expenses, while allowing students the opportunity to gain valuable work experience. Eligibility is based on financial information furnished in the Free Application for Federal Student Aid (FAFSA) which is a part of the Federal College Work-Study Program application. Students are awarded in the order in which the funds are available.

### Budgeted Work-Study Program

Budgeted student workers are paid out of the budget of the department in which they are employed, and the funds are not applied towards the student's financial aid package.

Students interested in Budgeted Work Study campus employment should contact the various departments on campus immediately after enrolling so interviews may be arranged with supervisors. Students may also view some available part time job postings at <http://www.career.uno.edu>

### Scholarships and Fee Exemptions

The University of New Orleans has a long-standing tradition of pride in the academic ability of its students. The University has demonstrated its commitment to excellence by establishing a growing number of scholarship opportunities for students and transfer students. Each year, academic scholarships are awarded to assist students in obtaining their first bachelor degree. These scholarships are awarded on the basis of outstanding high school academic accomplishments, strong standardized test scores, class rank, and achievements in leadership and community service. Freshmen admitted to the University for the Fall semester are granted full consideration for scholarships if they complete an Application for Undergraduate Admissions by priority deadline of January 15. To receive consideration for a scholarship, students must complete the Admissions application and qualify fully for admission. A separate application is not required for consideration.

The scholarship must be used for university-related expenses (tuition, dormitory room, meal or book/supplies).

***Please note: Meeting the minimum requirements does not guarantee a scholarship. Scholarships are awarded based upon availability and funding.***

Scholarship renewal is guaranteed if the student successfully meets the retention requirements as outlined in their scholarship guidelines. The award will automatically be credited to the student's account. Most freshman scholarships are renewable for up to four years or graduation, whichever comes first. Transfer scholarships are generally renewable for up to two years or graduation, whichever comes first. Institutional scholarships can be used during the Fall and Spring semesters only. They cannot be used during the Summer semester.

A student may use only one fee-exemption or tuition-based scholarship during any semester or Summer term, but generally may hold a cash-award scholarship concurrently with a fee-exemption.

*A student automatically forfeits an award upon failure to meet the required retention guidelines for any given award, upon failure to claim the award for any semester, upon resignation during a semester, or upon being dropped from the rolls of the University.*

Additional information and applications for scholarships and fee-exemptions are available from the Enrollment Services Offices of Student Financial Aid and Admissions.

*The University of New Orleans reserves the right to modify the policy that governs these awards.*

## Gaining and Maintaining Scholarship Eligibility

Students must qualify fully for admission to UNO to be eligible for a scholarship award and must remain in good academic and disciplinary standing with the university to retain their scholarships. The Scholarships can be used for the Fall and Spring semesters only. For specific renewal requirements, student should refer to their scholarship

rules and regulations or contact the Enrollment Services Student Financial Aid and Scholarships Unit.

### Scholarships for First Year Students

#### **Homer Hitt Scholarship\***

This scholarship is the institution's most prestigious scholarship providing tuition, residence hall room, board plan, and a \$500 annual book stipend for students. Out-of-state students will also receive an out-of-state fee waiver. There are 100 Homer Hitt Scholarships that will be awarded annually. The minimum criteria for consideration is a 30 ACT (1340 SAT) and a 3.5 GPA. Consideration is automatic with the submission of a completed admissions application.

#### **UNO Excellence, UNO Blue, and UNO Silver Scholarships**

For Louisiana residents, scholarships are available from \$1000 to \$2,000 per year. The minimum requirements for the consideration are 24 ACT (1110 SAT) and 2.75 GPA. Consideration is automatic with the submission of a completed admissions application.

#### **Privateer First Year Scholarship\***

For students living outside Louisiana, scholarships are available to waive out-of-state fees. The minimum requirements for the consideration are 23 ACT (1060 SAT) and 2.5 GPA. Consideration is automatic with the submission of a completed admissions application.

#### **Residence Hall Scholarship\***

For students who will be receiving for one of above awards and who will be living in UNO campus housing, scholarships are available for \$2,000 towards their first year of housing. Consideration is automatic with the submission of a completed admissions application.

#### **Valedictorian Scholarship**

For students that are valedictorian of their class, scholarships are available for \$1,000 to be used in addition to the above awards. Upon graduation, students will provide verification to the Office of Enrollment Services for consideration.

### Scholarships for Transfer Students

#### **Crescent City Scholarship**

For Louisiana residents, scholarships are available for \$2,000 per year. The minimum requirements for consideration are 3.0 transfer GPA and at least 24–90 earned hours. Consideration is automatic with the submission of a completed admissions application.

#### **Privateer Transfer Scholarship\***

For students living outside Louisiana, scholarships are available to waive out-of-state fees. The minimum requirements for consideration are 3.0 transfer GPA and at least 24–90 earned hours. Consideration is automatic with the submission of a completed admissions application.

#### **Phi Theta Kappa Scholarship**

In addition to the above awards, transfer students who are members of the Phi Theta Kappa Honor Society are eligible to receive an additional \$500 per year. Students will provide verification to the Office of Enrollment Services for consideration.

\* Transfer students shall be defined as having 24 or more semester hours of transferable college course work completed including a college level English and Math. Transfer students with less than 24 hours must meet both transfer and freshman requirements, provide ACT/SAT scores, and will be awarded the appropriate freshman award.

### Performance and Special Focus Awards

#### **Music, FTCA, Fine Art, NOCCA**

The University of New Orleans provides funding to students who exhibit special talent in the visual and performing arts or who are a part of special designated educational cohort groups. These awards vary in value and are awarded through the different focus areas. Out-of-state students may receive appropriate level of out-of-state fee waivers based on their academic credentials. Students wishing to be considered

must complete and meet the normal scholarship application process outlined above, but may also be required to submit supplementary information or agree to a performance-related audition. (Before a student is awarded, the student must meet the normal admissions requirements and be accepted into the University.)

#### **Elysian Ensemble Service Award in Music**

A \$300 scholarship is available to be awarded to students at the end of a semester for participation in either the Classical or the Jazz Division of the Department of Music's Ensemble groups. For details, please contact the Music Department.

#### **Continuing Student Achievement Award**

The prestigious Continuing Student Achievement Award is designed to recognize and financially assist undergraduate students, who are excelling academically, in obtaining one undergraduate degree. The award is for the academic year - Fall and Spring semesters only. (On a case by case basis, some exceptions are made to award during the Spring semester up to funding level. For details, contact the Scholarship Office at [finaid@uno.edu](mailto:finaid@uno.edu)).

#### **Additional Scholarship Opportunities**

##### **Children of UNO Alumni Scholarship\***

Students living outside Louisiana who meet admission requirements and have a parent that graduated from UNO are eligible for an out of state fee waiver.

##### **Graduates of UNO Scholarship**

Students who are US residents that are UNO graduates who continue pursuing their next higher degree at UNO are eligible for an out of state fee waiver. Students should contact the Office of Enrollment Services for verification.

##### **Hanks/Logsdon Endowed Scholarships**

Offered by Mr. Carl E. Muckley, an alumnus of the University of New Orleans these two scholarship programs honor two UNO professors who were instrumental in his educational experience at UNO. The scholarships, known as the Dr. Donald K. Hanks Endowed Scholarship Fund in Philosophy and the Dr. Joseph Logsdon Endowed Scholarship Fund in History, will provide senior students majoring in philosophy and history with scholarship and book expense support. The grade-point average maintained by each of the potential scholarship recipients and their financial need shall be the major factors in selecting the recipients for the philosophy and history scholarships. Scholarship recipients will be selected by the Chairs of the Departments of Philosophy and History with the assistance of the Dean of the College of Liberal Arts and others as deemed appropriate by the Chairs and the Dean. For information, please contact the Chairs of the Departments of Philosophy and History.

##### **James W. Ellis High School Honor Scholarships**

Award: The cost of one three-credit course. Eligibility Requirements: Students must have completed the junior year of high school, be recommended by the high school principal or counselor, have an overall 'B' average for all high school grades, and have a composite ACT score of 25 or higher (28 for full-time). Awards are limited and are based upon funds availability.

#### **Privately Funded Scholarships**

Scholarships awarded by outside agencies are administered according to the rules and regulations prescribed by the donors as accepted by the UL System.

##### **Polly and Theriot Baudean Memorial Scholarship Fund**

Open to eligible freshman student applicants who intend to major in either Communications or English and who graduated from Higgins or other West Bank Jefferson Parish public high schools. This scholarship provides tuition and book expense support. Potential scholarship recipient(s) shall have maintained at least a 3.0 grade-point average on a four-point scale in high school and have achieved a composite score not lower than 25 on the ACT in order to qualify for scholarship consideration. Scholarship recipients will be selected by the Dean of the College of Liberal Arts with assistance from the Chairs of the Departments of Communications and English. For information, please contact the Department of Communications.

##### **Richard and Darleen Stillman Annual Speaking Competition**

This scholarship was established by Professor Emeritus Richard J. Stillman in 1994 in loving memory of his wife. The competition is open to any UNO undergraduate student enrolled in 12 or more semester hours who has a grade-point average (GPA) of 2.0 or better. Contestants must speak for a minimum of 10 minutes but not longer than 12 minutes. Only visual aids and notes are allowed. There are four prizes awarded annually for the Stillman Speaking Competition: 1st prize—\$1,000; 2nd prize—\$500; 3rd prize—\$250; and 4th prize—\$100.

#### **Division of International Education Ambassador Awards**

Awards can be applied towards all Summer programs and Academic Year Abroad in Innsbruck, Austria. Undergraduate and graduate students are eligible. Awards range in amount from \$250 - \$1,500. The John E. Altzan Ambassador Award is exclusively for a student applying to the UNO-Innsbruck International Summer School and in the amount of \$3,000. A limited number of financial awards for study abroad, "Ambassador Awards," will be made available to UNO students who exhibit high academic achievement, whose academic plans would benefit most from this experience, and who demonstrate financial need." For details, view <http://inst.uno.edu/exchange/>.

#### **Student Government Tuition Awards**

These scholarships are available to select Student Government officials.

The Student Government President must have completed 45 semester hours of credit and maintain a 2.5 cumulative GPA to be eligible.

The Student Government Vice President, Treasurer and Secretary of State must have completed 30 semester hours of credit and maintain a 2.25 cumulative GPA and maintain full-time enrollment status during the Fall and Spring semesters. Part time status during the Summer is permitted.

For details, contact [studentaffairs@uno.edu](mailto:studentaffairs@uno.edu).

#### **Arts Scholarships**

These scholarships are available in Jazz Studies, Classical Music, Fine Arts, Film, Theatre and Communication Arts and Creative Writing. They require either an audition or the submission of a portfolio or manuscript along with a scholarship application. Contact the academic departments for details.

#### **Fee Exemptions**

Students must meet and be fully admitted into the University and meet the specific as well as general guidelines of each specific exemption. Student must remain in good academic and disciplinary standing with the University to retain the benefit of these exemptions.

#### **Academic Common Market (ACM)**

The purpose of the ACM program is to share specific academic degree programs located in southern public colleges and universities. This is accomplished through an exchange of students across borders at in-state tuition rates. The exemption covers the non-resident fee only and is available to students certified by letter as eligible by ACM to assist in obtaining one degree. The student must meet normal admissions requirements, including GPA, and must enroll full-time to receive the exemption. To retain the award, the student must maintain a cumulative 2.0 or higher GPA and earn a minimum of 24 credit hours per academic year. To initiate the process, the student should contact their state ACM program. To find out about qualification requirements, go here: <http://www.sreb.org/page/1304/>. Qualified students will submit the certification document to the Office of the Registrar.

#### **CODOFIL**

CODOFIL (Council for the Development of French in Louisiana) exemptions for tuition and nonresident fees are available to those students who are certified as eligible by the Director of the CODOFIL program in accordance with the UL System guidelines.

#### **Children of Deceased/Disabled Police and Firefighters**

These exemptions are granted to students whose father or mother was killed or seriously injured in the line of duty. The exemption covers full tuition, room and board, and an allowance for books and supplies. Students must meet normal admissions requirements. Student should contact the Office of Financial Aid for UNO specific guidelines.

### **Children of Deceased/Disabled War Veterans**

These exemptions for full tuition are available to children, aged 16-25, of veterans that were killed or permanently disabled in the line of duty. Students must meet normal admissions requirements. Student should contact the Office of Financial Aid for UNO specific guidelines.

### **Community Police and Firefighters Fee Exemption**

This exemption is offered to sworn, commissioned peace officers who are policemen and state certified firefighters in Orleans Parish and its seven neighboring parishes of Jefferson, Plaquemines, St. Bernard, St. Charles, St. James, St. John, and St. Tammany. The exemption covers tuition and some fees less \$111.00 for a 3-credit hour course, up to 6 credit hours. To be eligible, students must present Approved Law Enforcement and Firefighter form and a copy of badge (commission) and proper identification. UNO reserves the right to request additional documents or proof of employment. Students should submit all documents and ID's 5-7 business prior to Fee Payment Deadline.

### **Golden Ager Scholarship**

Students who meet minimum admission requirements and who are at least 65 years of age are eligible for a tuition waiver. Fees are still applicable. Consideration is automatic with the submission of a completed admissions application.

### **Employee and Dependent Tuition Exemption**

Full-time (100%) non-academic and other academic (excluding faculty) UNO employees, who have been employed at least one year in a full-time, permanent position and with approval from their department head or supervisor, may register for job related undergraduate or graduate courses at the UNO campus for up to 3 credit hours and receive full tuition exemption. Employees will be responsible for paying all other fees associated with enrollment such as class fees, lab fees, and all mandatory fees. The UNO "Tuition Reduction Application" form and procedure is available via SharePoint at <https://sharepoint.uno.edu/forms/HR%20Hiring%20Forms/Tuition%20Reduction%20Application%20071812F.docx>.

Spouses and dependents are also eligible to receive educational privileges. For specific details, contact the Human Resource Department.

Student must complete coursework with a grade of "C" or better ("B" or better for graduate students), and the course must be job-related. Remedial and audit courses are not allowed. If the employee leaves the University of New Orleans at his/her own discretion, the exemption will be removed and the employee will be responsible for tuition payment. To apply, the employee should submit the Employee Exemption form at least 7-10 business days in advance of Fee Payment Deadline to the HR Department.

### **ESPOL/Visiting Scientists**

The University of New Orleans and ESPOL have jointly signed an agreement of cooperation that addresses the establishment of a program through which ESPOL students can enroll at UNO and receive a bachelor's degree in Economics from the College of Business Administration, and or/a bachelor's degree in Engineering from the College of Engineering. The award covers the nonresident fee. The student must maintain full-time status and maintain satisfactory progress. There may be additional requirements.

### **Innsbruck Friendship Treaty**

This is a program administered by Center Austria between the University of New Orleans and the University of Innsbruck for students from the University of Innsbruck. The student must maintain full-time status and maintain satisfactory academic progress. The award covers nonresident fee.

### **Louisiana National Guard State Tuition Exemption (STEP)**

STEP exemptions for full tuition are available to members in good standing in the National Guard. The student must be declared eligible by the National Guard, meet admissions requirements, be degree seeking and must be in good academic standing (not on scholastic probation) with the University. Students must submit their National Guard ID, enroll in classes, and submit all transfer coursework before the exemption can be posted to their account. To retain the award, the student must meet SAP and have a cumulative 2.0 GPA or above at all times. To ensure the award is posted prior to Fee Payment Deadline, students should enroll in class and submit their National Guard ID at least 10 business days prior to the start of classes.

**Military personnel and their dependents**

Military personnel and their dependents are exempted from the nonresident fee. The exemption is available to students who are currently stationed or who have been permanently stationed in Louisiana, and their dependents. It also extends to dependents of military personnel who have been assigned to duty elsewhere immediately following assignment in Louisiana provided the dependent continues to reside in Louisiana. For more information on fee exemptions, contact the Office of Admissions.

**University Hardship Waiver**

Students may apply for a waiver of all or part of tuition and fee increases above the previous fiscal year's tuition and fee amount. Hardship waiver considerations are available Fall and Spring semesters only. Students with demonstrated financial hardship as a result of the increase(s) may qualify for a hardship waiver. You must meet ALL of the specific criteria for consideration. For details, contact the Office of Financial Aid at [finaid@uno.edu](mailto:finaid@uno.edu).

**State Scholarships****Louisiana Tuition Opportunity Program for Students (TOPS)**

TOPS provides financial assistance to students who enroll in a state college or university. Students applying for a TOPS award must submit the Free Application for Federal Student Aid (FAFSA) before July 1, the state deadline, for consideration. All TOPS recipients must be Louisiana residents, have completed the 17 1/2 unit core curriculum, as specified by the state, have graduated from a public/approved non-public high school, must have enrolled full-time for college no later than 1 year after graduation, not have a criminal conviction, and meet the requirements stated under each of the awards described below:

TOPS Opportunity Award

Requirements: Students must have earned a high school grade point average of 2.50 calculated on 17.5 course units and obtained at least the prior state average (currently 20) on the ACT.

TOPS Performance Award

Requirements: Students must have earned a high school grade point average of 3.00 calculated on 17.5 core units and obtained at least a 23 ACT score.

TOPS Honors Award

Requirements: Students must have earned a high school grade point average of 3.00 calculated on 17.5 core units and obtained at least a 27 ACT score.

***\*For BESE-Approved Home –Study Student Eligibility, contact LOSFA (TOPS) at 1-800-259-5626.***

***This information is subject to change.*** For more information on state scholarships, contact the Louisiana Office of Student Financial Assistance (LOSFA) at 1-800-259-5626 or view on-line at [www.osfa.la.gov](http://www.osfa.la.gov).

**American Legion Scholarships**

These scholarships are available to unmarried sons or daughters of members of Metairie Post 175 and are awarded on the basis of merit. The scholarships are valued at \$400 per academic year. Applications may be obtained from Post 175 Scholarship Committee. (This information is subject to change.)

**The AMOCO Production Company Scholarship**

This scholarship is awarded to an upper level business student who has a minimum GPA of a 3.0 and has shown leadership in student organizations. (This is a small financial award since it depends on the interest earned on an endowed fund of \$4,600.)

**The Joan Sherman Scholarship**

This award is made to the Louisiana resident junior with the highest GPA majoring in business administration. (The amount awarded is typically around \$500-\$750.)

**Air Force Reserve Officer Training Corps (AFROTC)**

AFROTC offers 2-, 2 1/2-, 3-, and 3 1/2-year scholarships to qualified applicants who are enrolled in the New Orleans area AFROTC program and who are selected in national competition by AFROTC Headquarters.

These scholarships provide tuition and fees, textbook costs, and a \$100 a month stipend to each student for his/her use. Information on how to apply can be obtained from the Department of Aerospace Studies, Tulane University, Social Science Bldg., Room 114, phone (504) 865-5394.

**Army Reserve Officers Training Corps (AROTC)**

Army ROTC offers two-, three- and four year scholarships to qualified applicants who are enrolled in New Orleans area colleges and universities and selected in national competition by HQ, US Army Cadet Command, at Fort Monroe, VA. This scholarship provides Full tuition coverage, as well as Book stipend of \$1200 per year (\$600 per semester), spending stipend: Freshman - \$300, Sophomore - \$350, Junior - \$450, and Senior - \$500 respectively per month. Information on applying may be obtained from Tulane University, Army ROTC, 6823 St Charles Avenue, New Orleans, LA 70118, 504- 865-5594 or 1-800-777-ARMY and by email at <mailto:armyrotc@tulane.edu>.

**Navy Reserve Officers Training Corps (NROTC)**

Navy ROTC offers two-, three-, and four-year scholarships. Four-year scholarship students are selected annually on a nationwide competitive basis through the Chief of Naval Education and Training (CNET). Three-year scholarship candidates are selected by CNET from non-scholarship (college program) students participating in the NROTC unit. Two-year scholarships are selected from local undergraduate applicants. All scholarships include full tuition, university fees, uniforms, textbooks, and a \$200 per month subsistence stipend. Scholarship students participate in paid summer training periods and receive commissions in the Navy or Marine Corps Reserve as ensigns or second lieutenants upon graduation. They have a minimum four-year active duty obligation after commissioning, followed by four years in the inactive reserves. For information on applying to become a scholarship or college program midshipman, contact the NROTC Unit, Tulane University, 6823 St. Charles Avenue, New Orleans, Louisiana 70118-5698, (504)865-5104. (This information is subject to change.)

**Rehabilitation Services**

The Division of Rehabilitation is a joint Federal-State Agency that provides assistance to students who are physically or mentally disabled in order to help them become gainfully employed. Assistance in college training can be provided as part of the student’s rehabilitation. Any student who feels they have an employment handicap should call the Division of Rehabilitation Services, 838-5180, or write to the Division of Rehabilitation Services, 6620 Riverside Drive, Metairie, LA 70003.

***Disclaimer: The University of New Orleans reserves the right to modify the policy that governs these scholarships and fee exemptions. The number of scholarships and award amounts are based upon fund availability.***



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## Glossary

The following are definitions of terms that may be used throughout the University of New Orleans Undergraduate/Graduate Catalog.

Academic Calendar	The official listing of important dates relative to semester/term start and end dates, deadlines and holidays.
Academic Load	The total number of semester hours for which a student is registered in one semester or summer term. See "Course Load."
Academic Record	A history of all of the courses, credit by examinations, and other equivalent activities a student has taken and the grades he/she has received. See also "Transcript."
Academic Year	The period comprised of fall and spring semesters.
Advanced Placement	Approved admittance into a course beyond entry level as a result of demonstrated subject proficiency.
Advanced Standing	Academic credit for one or more courses awarded to a student based upon their successful performance on an examination.
Advisor	A member of the University faculty or staff charged with the responsibility of interpreting academic requirements, developing course schedules, providing academic and career information, monitoring adjustment to college and academic progress and making referrals to other departments and support services based on the student's needs.
Approved Elective	Elective that is not open to the free choice of the student.
Area of Concentration	The primary areas of study.
Articulation Agreement	Document that identifies courses that may be taken at one institution for degree completion at another institution.
Audit	To enroll in a course for no credit.
Colleges	The academic units of the University that offer academic degree programs; administered by deans and staffed by faculty members. The type of training and the degree anticipated determine the student's choice of college.
Concentration	An alternative track of courses within a major, accounting for at least 30 percent of the major requirements.
Core Requirements	See "General Education Requirements."
Co-requisite	A concurrent requirement; usually a course or some other condition that

	must be taken at the same time as another course.
Course Bulletin	An online publication coordinated by the Office of the Registrar and the academic colleges that includes a list of courses and sections for a specific semester/term, information about registration, fee payment, student financial aid, the final examination schedule, and the academic calendar. See also Information Bulletin.
Course Load	The number of semester hours a student schedules in a given term.
Credit	<ol style="list-style-type: none"> <li>1. The recognition awarded for the successful completion of course work. Credits are based on the number of times (hours) a course meets in one week during a regular semester.</li> <li>2. The quantitative measure of recognition given to a course, stated in semester hours.</li> </ol>
Cross-Enrollment	Through separate formal agreements between UNO and Southern University in New Orleans and Delgado and Elaine O. Nunez Community Colleges, UNO students may register for a limited number of classes at each of these institutions when they register at UNO. Students should contact the office of their dean or the Registrar for information regarding the procedures to be followed for this process.
Cross-Listed	The same course offered under the rubrics of two or more departments.
Cumulative or Overall Average	A student's grade-point average, based on the total number of quality points earned and the total number of semester hours attempted. See "Grade Point Average."
Curriculum	A description of the required and elective courses for a degree program.
Curriculum Sheet	A check sheet used by students and advisors to track the student's progress toward completion of a degree program.
Degree	The title of the award conferred on students by a college, university, or professional school upon completion of a unified program of study (i.e., Bachelor of Arts—B.A.; Bachelor of Science—B.S.; Master of Science—M.S.; Master of Fine Arts—M.F.A.; Master of Music—M.M; Doctor of Philosophy—Ph.D., etc.).
Degree Designation	A degree designation for each authorized program at a public institution of higher education in Louisiana is listed in the Board of Regents' Inventory. Some programs require the name of the subject area as part of the degree designation (Master of Fine Arts—M.F.A., etc.).
Degree Program	A grouping of campus-approved courses and requirements (i.e., minimum gpa, comprehensive examinations, English and mathematics proficiency, etc.) that, when satisfactorily completed, will entitle the student to a degree from an institution of higher education.
Departments	The academic units of the University within colleges; administered by chairs or directors.
Distance Learning	Learning that takes place with the instructor and student separated from each other geographically or in terms of time. For example, an instructor may record a video tape or make a streaming media file with learning objectives and planned activities months or weeks before a student accesses the tape or file to learn from it. Distance learning may occur by surface mail, video, interactive or cable TV, satellite broadcast, or any number of Internet technologies such as message boards, chat rooms, and desktop video or computer conferencing.

Elective	Course chosen by the student, as opposed to required course. The term elective, without a qualifier, will be understood to be a free elective, chosen by the student at his or her option from all the courses offered by the University for degree credit, with due regard for prerequisites.
Equivalent	When used in a course prerequisite (e.g., Prereq: SOC 1051 or equivalent), this term means either credit in a comparable course or adequate preparation by other experience. Determination of equivalency is left to the discretion of individual departments.
Freshman	A student with less than 30 hours earned.
General Degree Requirements	Courses and other requirements which must be met by all candidates for any bachelor's degree.
Good Standing	Students are in good standing if they are eligible to continue or to re-enroll at the University, even if on scholastic probation or on academic warning status.
Grade-Point Average (GPA)	A measure of scholastic performance; the ratio of quality points earned to semester hours attempted.
Independent Study	A method of instruction in which studies by individual students are carried on outside the classroom on a topic contracted with an instructor.
Information Bulletin	An annual publication coordinated by the Office of the Registrar which provides information about registration, fee payment, student financial aid, the final examination schedule, the academic calendar and other information of interest to students.
Junior	A student with at least 60 hours of credit earned and less than 90 hours of credit earned.
Lower Level	Undergraduate courses offered at the freshman and sophomore levels designated by a course number beginning with a 1 or 2.
Major	The part of a degree program consisting of a specified group of courses in a particular discipline or field. The name of the major is usually consistent with the degree subject area. A major usually consists of 25 percent or more of the total hours required in an undergraduate curriculum.
Matriculation	The student has fulfilled all Admissions requirements and is eligible to register for classes..
Minor	A student's field of secondary or tertiary academic emphasis. That part of a degree program consisting of a specified group of courses in a particular discipline or field. The minor usually consists of 15 percent or more of the total hours required in an undergraduate curriculum. A minor is an elected emphasis and not required in most programs of study.
Moodle	A Web-based learning, discussion, and class administration tool designed to provide a secure pre-made Web site for a class.
Placement Test	A test given before a student enrolls in a course (that is one of a sequence of courses) to determine the level at which the student begins.
Plan	see "Major."
Post Baccalaureate	An undergraduate student who has already completed one

	undergraduate degree.
Pre-professional Program	A non-degree program of study in preparation for entry into a professional degree program at another institution or another division of the University; normally takes from one to three years to complete.
Prerequisite	The preliminary requirement, usually credit in another course or class level that must be met before a course can be taken.
Probation	(academic or disciplinary) A status assigned because of unsatisfactory grades or conduct.
Proficiency Examination	A test equivalent to a final examination in a college-level course in which a student is required to demonstrate competence to earn academic credit. The test may be given as a final in a course in which a student is enrolled, as a test to validate transfer credit earned at another institution, or as a method for earning credit for a course in which a student is not formally enrolled.
Program	The college or unit in which a major (plan) is housed.
Quality Point	The numeric value of a letter grade A=4; B=3; C=2; D=1; F=0. The computed value of the quality point times the credits for the course
Registration	The process by which a duly admitted student, upon payment of required fees, is enrolled in classes.
Resignation	The official process by which a student withdraws (drops) from all courses during a university semester or term.
Section	Specific designation (beyond the course number) of each course offering that distinguishes room location, meeting time, and instructor.
Semester Hour	The unit by which course work is measured. The number of semester hours assigned to a course is usually determined by the number of hours the class meets per week.
Seminar	A method of instruction in which a group of students engaged in research or advanced study meets under the guidance of one or more University faculty members for presentation and discussion of approved topics.
Senior	A student with at least 90 semester hours of credit earned.
Sophomore	A student with at least 30 semester hours of credit earned and no more than 59 hours of credit.
Statute of Limitations	A time limit placed on completing a specific degree or process.
Student Number	A student's UNO number is his/her permanent identification and is unique to that person.
Student Schedule	The courses in which a student is enrolled.
Suspension	(academic or disciplinary) A university assigned status that prohibits students from registering for courses for a specified time period. See also "Probation."
Term Activate	A computer process indicating a student is eligible to enroll for a specific semester or term.
Transcript	The continuous, formal, and official record of a student's academic work at a university.
Transfer Student	A student who terminates enrollment in one college or university and subsequently enrolls in this University.

Upper Level	Undergraduate courses offered at the junior and senior levels designated by a course number beginning with a 3 or a 4.
Withdrawal	See "Resignation."



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Graduate School

# Graduate School

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## Research and Academic Centers and Institutes

The Advanced Materials Research Institute (AMRI) is a multidisciplinary research institute that provides a unique opportunity to develop novel research ideas that ultimately involve the government, private, and academic sectors in the conception and development of research programs. The interactions with corporate laboratories provide a synergistic pathway that promotes technology transfer and private sector involvement in the operation of AMRI.

The Center for Austrian Culture and Commerce was founded in 1997 to administer the entire partnership agenda with the University of Innsbruck. It directs the student and faculty exchanges, organizes regular lectures on campus and annual scholarly conferences in the humanities, social sciences and sciences, and publishes the academic journal "Contemporary Austrian Studies." It also publishes two book series: "Studies in Austrian Politics and Culture" (Transaction Publishers) and "TRANSATLANTICA" (StudienVerlag Innsbruck). CA is one of three Austrian Studies Centers in North America (next to the University of Minnesota and the University of Alberta in Canada). It is recognized as a major center for Austrian Studies by the Austrian government and receives regular support from the Ministries for European and International Affairs and the Science Ministry for its conferences and publications and with the funding of an annual dissertation fellowship for an Austrian student to come to UNO. Its work in trans-Atlantic academic exchanges has also been recognized by the Austrian Marshall Plan Foundation in Vienna with the funding of the Marshall Plan Chair in Austrian and European Studies to foster European Studies and international on the UNO campus. CenterAustria is promoting the study of Austria and Europe in Louisiana and the Gulf South.

The Center for Hazards Assessment, Response and Technology (CHART) is an applied social science hazards research center at The University of New Orleans that collaborates with Louisiana communities emphasizing coastal communities including the City of New Orleans. The focus of UNO-CHART is to support Louisiana community sustainability in light of natural, technological, and environmental risks to which the state is vulnerable. The Center undertakes applied social science research to understand ways in which Louisiana communities and the coastal region respond to these risks, assists in the development of best practices for reducing risks and helps in implementing these practices to achieve comprehensive community sustainability. The second focus of UNO-CHART is the reverse dynamic--the impacts of community activity--social / political / economic--on the ecosystems within the coastal and southeast regions of the state. CHART was founded in 2001 and is comprised of a multidisciplinary group of faculty, staff, and graduate research assistants representing various backgrounds including sociology, political science, public administration, planning, urban studies, engineering and geography. Currently, CHART has projects that address repeated flood loss, disaster mitigation planning, developing of community resiliency assessments, storm mitigation efforts by coastal communities, scientist/community collaboration on ecosystem health and hurricane evacuation of vulnerable populations.

The Center for Urban and Public Affairs (CUPA) is a multidisciplinary, non-partisan center for urban research and planning at the University of New Orleans that has produced and disseminated rigorous applied and scholarly urban research for over 20 years. The mission of helping to facilitate and understand healthy, sustainable urban communities have been made all the more important as the Gulf Coast region recovers from Hurricane Katrina. CUPA has built tremendous expertise in the challenges and opportunities that lie at the heart of rebuilding New Orleans and the Gulf Coast Region. This expertise is being put to use in a wide variety of projects of local and national significance.

The Division of Business & Economic Research (DBER) provides customized research services to organizations to facilitate strategic planning/problem solving efforts. The DBER publishes numerous periodicals containing statistical information, economic analysis and forecasts, and applied research topics.

The Edward G. Schlieder Urban Environmental Systems Center (formerly the Urban Waste Management and Research Center) is a Center of Excellence in the College of Engineering that was established in 1990 by the Louisiana Board of Regents to address urban environmental issues. The Center's research activities are associated with urban environmental issues such as municipal solid waste, wastewater, urban runoff, surface and ground water quality, and air quality. To that end, the Center's project activities over the period of funding included and involve investigators from UNO as well as other universities throughout the country, and where possible, other disciplines. The Center's objective is to provide research that will develop the technologies necessary to further the state-of-the-art, and provide a source of trained graduate engineers and scientists. SUESC has operated based on funding provided by research grants and contracts with institutions such as the US EPA, SPAWAR, Jefferson Parish, City of Kenner, and others. The US EPA funded a twelve-year research program (EPA Grant #GR825427), from May 1990 through May 2002, with the participation of faculty primarily from UNO and Louisiana State University.

The Eisenhower Center for American Studies supports the Department of History graduate program in diplomatic-military history with an emphasis on public history employment after graduation. This support comes in the form of special speakers and events designed to increase interest in military history and contemporary national security affairs. The Eisenhower Center is the university's principal agent for joint programs with the National World War II Museum, founded by the late Stephen E. Ambrose, a UNO history professor and author of international acclaim. The current director of the Eisenhower Center, Allan R. Millett, serves as the senior military advisor to the president of the museum. He was instrumental in negotiating the endowment that created the World War II lecture series funded by Major General Raymond E. Mason, Jr., USAR (Retired). The center director and his research assistant work closely with the museum's research and educational departments. The director ensures university contact with the international military history community by serving as Vice President of the International Commission of Military History, a forty-nation consortium chartered by UNESCO.

The Energy Conversion and Conservation Center (ECCC) was established in 1996 by legislative act of the State of Louisiana. The ECCC conducts research on local, national and international projects that aim to improve the quality of life by solving technical problems associated with power generation, energy conservation and efficiency.

The Ethel and Herman Midlo Center for New Orleans Studies promotes understanding of New Orleans history, culture, politics, and public policy issues through sponsored events and coordination of interdisciplinary courses and seminars at the University of New Orleans, facilitating the writing of new general histories of New Orleans and Louisiana, hosting conferences that enable scholars to share their research findings about New Orleans, serving as an institutional home for international scholars, and as a repository for research materials about the culture and folklore of the City. Since its inception, The Midlo Center has sponsored a series of high profile outreach projects that have helped to circulate this information back into the community that it serves while successfully applying for a range of research grants to expand knowledge on the city and people of New Orleans.

The Greater New Orleans Center for Information Assurance (GNOCIA) is dedicated to research and instruction in the broad area of Information Assurance (IA). The GNOCIA has several interrelated missions, including facilitating interaction between government, industry, and academia to perform cutting edge research in IA, attracting federal funding to support these research efforts, attracting and retaining highly-qualified students, staff, and faculty, and workforce development through creation of specialized training opportunities. The Center also develops outreach programs to increase awareness of opportunities in IA in a number of communities, from high school students to entrepreneurs. Finally, the GNOCIA will provide a development environment where, in collaboration with industry and government agencies, research ideas in IA are grown into real-world security tools to be used in daily practice. The primary research agenda of the GNOCIA includes development of state-of-the-art, high-performance tools for digital forensics investigation, reverse engineering, techniques for analysis and mitigation of malware, secure programming, and research in spatio-temporal information systems for homeland security. The GNOCIA laboratories include state-of-the-art computer equipment running a wide variety of open source and commercial software for digital investigation, reverse engineering, and the analysis of malicious software, in addition to specialized equipment such as hard drive analyzers and clean room facilities.

The Hospitality Research Center at the University of New Orleans is a collaborative effort of the School of Hotel, Restaurant and Tourism Administration (HRT) and the Division of Business and Economic Research (DBER). Each faculty member of the School of HRT has broad experience in the tourism and hospitality industry and has extensive academic preparation. Working together, in cooperation with the professionals in the Division of Business and Economic Research, the UNO HRT/ DBER research program is consistently recognized for research productivity in the hospitality field. The function of the Hospitality Research Center is to provide a variety of research services to hospitality, travel and tourism organizations. Selected recent projects include Louisiana Tourism Conversion Study, Special Events Impact on the Economy, Tourism Industry Salary Surveys and Visitor Profiles.

The Institute of Economic Development & Real Estate Research is a public service division of the College of Business Administration that combines the resources of the Center for Economic Development and the Real Estate Research Center.

The Maritime and Environmental Resources and Information Center is located in the College of Engineering and addresses concerns pertaining to the planning and implementation of environmental and health related methodologies.

The Merritt C. Becker, Jr. University of New Orleans Transportation Institute (UNOTI), housed under the Department of Planning and Urban Studies, focuses on the role of transportation in creating a sustainable, livable and resilient future. Faculty and staff associated with the Institute are recognized for their expertise in Transportation Policy for Sustainability, Livability, Resiliency and Disaster Recovery; Maritime and Port Planning; Evacuation Planning for Carless and Vulnerable Populations; Transit and Streetcars; Bicycle and Pedestrian Planning and Safety, and Transit Oriented Development. UNOTI combines applied research, outreach and education to impact positively the transportation field from the local to the international spheres. The work done at the Institute continues to be integral in the post-Katrina recovery of New Orleans, and vital to the overall sustainability and economic competitiveness of the nation.

Formed in July 2008, the New Orleans Jazz Institute (NOJI) links UNO's strengths in jazz education with professional practice. It serves to promote creative excellence and best practices in Jazz composition, performance, scholarship, importation, exportation, and education. The goals and objectives of the New Orleans Jazz Institute are directly reflective of the University of New Orleans' mission, as well as its standard of excellence in the areas of: academic research, music education, new creative works and the enrichment of the cultural and business infrastructure of the New Orleans community. NOJI serves as a community and capacity building organization for New Orleans' Jazz Industry and creative community, bolsters the activities and scope of UNO Jazz programs, and acts as an ambassador for New Orleans Jazz all over the world.

The UNO Pontchartrain Institute for Environmental Sciences is a partnership of scientists and educators that combines rigorous scientific analysis with education, outreach, and planning to develop practical solutions to environmental challenges of the Pontchartrain Basin, the Gulf of Mexico, and similar coastal ecosystems in the United States and elsewhere in our world. The Institute brings together the technical expertise and understanding needed to address issues such as water quality, critical habitats, biodiversity and coastal restoration strategies. Additionally, staff work with academic institutions, government agencies, and environmental organizations to provide information critical to preserving and restoring the environmental quality of the Pontchartrain Basin.

The Survey Research Center (SRC/UNO Poll) exists to serve the research, teaching and service needs of the University and of the larger community. The SRC promotes socially significant research with public policy implications as well as research of theoretical or academic interest. Since 1985, the Center has collected information about public opinions, beliefs and values on a wide range of social, economic and political issues. In that time it has gained a reputation for accuracy and integrity in public opinion research. The SRC is an independent academic survey unit offering high quality research services to people inside and outside of the University. We provide training and experience in survey research to graduate and undergraduate students. The SRC is associated with the Department of Political Science.

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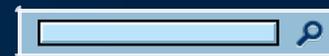
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## Student Life

The University of New Orleans (UNO) recognizes the important educational role that involvement in student life provides for students. There is a commitment to focus on the development of the whole student by extending the classroom experience through extracurricular activities. By becoming involved on campus, students have an opportunity to develop intellectual, social, leadership, communication and recreational skills, and these skills can assist them both personally and professionally. The Division of Student Affairs is committed to sponsoring and promoting activities which complement the educational experience, and the following information is only a sampling of the offerings available. We encourage all students to explore all of the aspects of student life at the University of New Orleans.

### Counseling Services

Counseling Services offers problem assessment and short-term personal (mental health) counseling to currently-enrolled UNO students. These services are focused on the resolution of students' current personal concerns and problems which might interfere with academic functioning. The Counseling Services staff can also assist students with referrals for longer-term or specialized treatment, if needed. Additionally, Counseling Services offers career testing and counseling to assist undecided students in choosing a career path which corresponds to personality traits and their current interests and skills. All personal and career counseling services are confidential within the limits of the law. In addition to personal counseling and career testing and counseling, Counseling Services regularly offers psycho-educational workshops addressing a variety of topics including time management, learning styles and study skills, conquering procrastination, stress management and interpersonal skills development. For additional information, please visit <http://counserv.uno.edu>.

### Department of Recreation and Intramural Sports

The Department of Recreation and Intramural Sports (RIS) offers a variety of programs and services for UNO Students.

#### Recreation and Fitness Center

A very popular service for students is the UNO Recreation and Fitness Center. This facility serves students who are interested in participating in a variety of fitness and recreational activities. The Recreation and Fitness Center has 3 basketball courts, indoor running track, 2 racquetball courts, indoor swimming pool, 2 group exercise rooms, weight equipment, and an extensive amount of cardio-vascular equipment which includes: treadmills, elliptical cross trainer machines, upright and recumbent bikes, rowing machines, AMT cross trainers, and much more. Personal Training and Fitness Assessments are also available.

#### Intramural Sports

A variety of intramural sports are offered each semester which include but are not limited to: flag football, volleyball, soccer, basketball, racquetball, and more. Club sports are also available and new club sports can be created depending on student interest.

#### Summer Sports Day Camp

The Department of Recreation and Intramural Sports Summer Day Camp provides a variety of fun activities

for children ages 5-11. The program is held during the months of June, July and early August. For more information, please visit the RIS web site at <http://ris.uno.edu/> and click the summer camp link or call (504)280-6357.

## Greek Life

The Office of Student Involvement and Leadership (SIL) provides advisory support and guidance to the university's thirteen fraternities and sororities. The department offers various programs and services, including active oversight of chapter events, planning and implementation of leadership retreats and workshops, monitoring of academic performance of fraternity and sorority members, and recognition of the positive achievements of the organizations. In partnership with faculty, staff, alumni, and inter/national fraternal organizations, the SIL challenges and educates students in the areas of leadership, cultural awareness, personal and group development, scholarship, and civic responsibility. More information about Greek Life is available at [www.greeklife.uno.edu](http://www.greeklife.uno.edu).

## Intercollegiate Athletics

University of New Orleans Intercollegiate Athletics is a member of the NCAA at the Division I level.

For the 2014-15 academic year, UNO will field teams in seven men's sports (baseball, basketball, cross country, golf, indoor track and field, outdoor track and field, tennis) and seven women's sports (basketball, cross country, indoor track and field, outdoor track and field, tennis and volleyball). Contact the UNO Athletic Department at (504) 280-6102 for more information or visit <http://www.UNOPrivateers.com/>.

Students with a valid student identification card are admitted free to all home athletic events.

The offices of Intercollegiate Athletics is located at The Athletic Center at the corner of Leon C. Simon and Franklin Avenue. For up-to-date information on game times and locations, check the Privateers official web site at: <http://www.UNOPrivateers.com/>. The athletic department can also be found on Twitter at @UNOPrivateers or on Facebook searching for the 'University of New Orleans Privateers'.

## Leadership Cabinet

The UNO Leadership Cabinet has served the University of New Orleans for over 30 years and has provided leadership opportunities for all students on campus regardless of their leadership experience. Members of the Leadership Cabinet plan and execute UNO leadership programs, including retreats, conferences, and the annual student leadership award ceremony.

## Office of Disability Services

The University of New Orleans is committed to providing an environment where all students have the opportunity to equally participate in the academic experience, including students with disabilities. Students with disabilities have rights as determined by federal and state laws which require institutions to provide reasonable accommodations for the student's disability in order to afford an equal opportunity to participate in the college's programs, courses, and activities.

The Office of Disability Services (ODS) assists students in meeting many of their educational needs on campus. The office may be able to secure academic accommodations for students who have documented disabilities.

Accommodations include, but are not limited to, note takers, extended test taking time, course materials in alternate formats, adapted computers, on campus, recording devices for lectures, and assistive listening devices.

The Office of Disability Services can assist in the coordination of accommodations for campus tours and events such as New Student Orientation.

The Section 504 Compliance Officer is the Director of Disability Services. The ADA Compliance Officer is the Director of Design and Construction, Facility Services. If you have any questions regarding specific responsibilities of these officers, please call (504) 280-6222 or visit [www.ods.uno.edu](http://www.ods.uno.edu).

## Office of Student Accountability and Advocacy

A student's education is a process of honest inquiry. Success, by its very nature, depends on the integrity of the experience. The basic philosophy of the UNO Student Code of Conduct is one of education. The University

encourages student growth and development of the individual through self control. The University is committed to protecting student rights and the rights of others. If a student feels that a University policy or their rights have been violated, they are encouraged to seek help from The Office of Student Accountability and Advocacy. Policies governing members of the University community are outlined in the UNO Student Handbook and other official publications.

The Office of Student Accountability and Advocacy assists when students experience problems within the university setting. The assistance is provided through consultation with, all affected parties to reach resolution. Additionally, if any student is experiencing a crisis or is a victim of an on-campus crime, this office will provide assistance, resources and referrals. For more information please refer to the following website <http://www.uno.edu/student-affairs-enrollment-management/student-accountability-advocacy.aspx>

## Office of International Students and Scholars

The Office of International Students and Scholars (OISS) provides support to approximately 750 international students, faculty, and staff from more than 90 countries. Specifically, OISS assists international students, faculty, and staff in maintaining their legal status under U.S. immigration law. In addition, the staff provides support on such matters as cross-cultural adjustment, personal and financial issues, and academic problems. Programs offered by OISS include new student orientation and educational workshops. OISS produces a regular newsletter, maintains an e-mail listserv, and co-sponsors cultural events such as International Night. Specific information about OISS programs is available at the following web address: <http://oiss.uno.edu>.

## Service Coalition

The service coalition is a conglomeration of individual student volunteers and student groups collaborating with non-profits and community service providers to fix long term environmental and social problems in the New Orleans area. The service coalition plans monthly service days and oversees the student-run recycling program.

## Service Learning

Service Learning is a teaching and learning approach that integrates community service projects with academic studies to enrich learning, teach civic responsibility, and strengthen the communities in which we live and work. Through fieldwork, applied research, and other academic activities, students engage in project-based service initiatives with community partners. Students, faculty, and partners work together to arrive at desired results, create innovative solutions to challenges, and achieve sustainable outcomes that benefit our partners as well as create a legacy of engagement with the communities we serve.

The mission of the Office of Service Learning at the University of New Orleans is to serve the community by engaging our undergraduate and graduate students in academic work that intersects with the needs of community organizations. Service Learning at UNO will allow students and faculty to put to work the philosophies, skills, and theories learned in the classroom.

Students who enroll in service learning courses commit to completing designated service work integrated into the classroom environment. UNO encourages socially conscious students already enrolled at UNO as well as incoming freshmen with service learning experience to become service-learning leaders. Moreover, UNO invites students from universities throughout the country who seek unique experiences to fulfill their service learning requirements in New Orleans, one of America's culturally and historically singular cities.

UNO provides an academic environment that cultivates and graduates leaders ready to continue their service in communities within Southeast Louisiana, throughout the United States, or across the world. Service Learning at the University of New Orleans is made possible through generous support from the Joe W. and Dorothy Dorsett Brown Foundation. The Office of Service Learning and the Service Learning Council look forward to providing additional resources to assist faculty, staff, and students in developing courses that integrate course content with engaged, meaningful service learning projects. For more information, please contact the Office of Service Learning at [servicelearning@uno.edu](mailto:servicelearning@uno.edu) or visit the offices at 248A and 248B in the University Center. Additional information is available on the website at <http://www.uno.edu/service-learning/index.aspx>.

## Student Activities Council

Student Activities Council (SAC) is the university's official student programming council on campus. The purpose of SAC is to provide educational, cultural, social, and entertaining activities for the UNO community. They are

responsible for the planning and implementation of major activities on campus such as the Welcome Back Luau, Fall Concert, the Drive-in Movie, Homecoming Week Festivities, the end of the year crawfish boil, and much more. With student input, SAC offers new, fresh events every year. ([www.sac.uno.edu](http://www.sac.uno.edu))

## Student Government

All regularly enrolled students are members of Student Government (SG), which provides an opportunity for each student to participate in the general community affairs of the University. Student Government members assume the responsibilities of self-government consistent with the responsibilities and policies of the University administration. In addition, Student Government maintains a variety of services such as forums for students to express ideas and concerns with administration. Student Government also funds other activities and services on campus such as student organization programs, and limited academic travel funds for undergraduate and graduate students. ([www.sg.uno.edu](http://www.sg.uno.edu))

## Student Health Services

Student Health Services is committed to providing the highest quality health care to the UNO community. Health Services offers evaluation and treatment of illness and injury, as well as educational programming for health promotion and illness prevention. Primary care is provided to students, on an appointment, and walk-in basis. Various injections, immunizations, and advice on travel abroad are available to students. Comprehensive physical evaluation and diagnostic laboratory testing are also available to students.

New or re-entering students are subject to a State legislated pre-matriculation immunization statute which requires students provide UNO with their immunization status regarding measles, mumps, rubella, diphtheria and tetanus. Additionally, a meningococcal immunization is required. Student Health Services can provide immunizations for students who have been admitted but may not have paid fees or attended classes. There is a fee associated with these immunizations. Students are encouraged to go to the Student Health Services website to learn more about immunization compliance and waiving rights. Students who waive immunizations may be required to leave school if there is a disease outbreak on campus.

Student Health Services is located in the University Center room 238. Clinic hours are 8:00 a.m. – 4:30 p.m., Monday through Friday. Please visit the web site at [www.studenthealth.uno.edu](http://www.studenthealth.uno.edu) for more information.

### Student Health and Accident Plan

The University negotiates a moderately priced blanket student health and accident plan. Students not covered by another insurance policy are strongly encouraged to enroll in this plan as medical costs can be high and jeopardize a student's education. The plan includes savings realized by Student Health Services acting as the primary care giver. Additional savings are provided through the use of a preferred provider organization. Dependents can also be covered on this policy.

The policy is an optional service offered to students. The University of New Orleans neither receives money from this service nor adjudicates claims on students' behalf. Policy information is available at Student Health Services, University Center room 238, and on our website, [www.studenthealth.uno.edu](http://www.studenthealth.uno.edu).

International Students are required to have health insurance. This policy meets the minimum requirements of the law and is cost effective. However, International Students may purchase other policies or bring one from their country that meets the minimum requirements.

## Student Housing

University of Louisiana System policy requires all unmarried, full-time undergraduate students regardless of age or emancipation status, live in campus residence halls as long as space is available. Under certain circumstances, housing exemptions are granted. For more information regarding the on-campus housing requirement <http://www.uno.edu/housing/residency-requirement.aspx>

### Residence Facilities

#### Pontchartrain Halls

Pontchartrain Hall is UNO's newest residence hall comprised of two state of the art four story buildings, Pontchartrain Hall North and South. Residents will have their choice of a private room with bath, a two bedroom unit with one bath or a four bedroom unit with two baths. Each bedroom is furnished with a bed,

student desk, chair, chest of drawers and built in closet. Each room has 9 foot ceilings, with bedrooms wired for Ethernet and cable television. Two and four bedroom units have common lounge areas which are also furnished. Wi-Fi is available throughout both Halls.

All residence facilities have card access, security cameras, a small convenience store, an activity area with billiard tables, foosball, etc. There are large social areas to accommodate a variety of programs for residents, study areas, 2 residents' kitchens and laundry facilities. The patio area is furnished with tables, chairs and three BBQ pits.

Residence Hall rates include all utilities, furnishings, cable television and internet. Residency in Pontchartrain Hall requires mandatory participation in the Pontchartrain Hall Campus Dining program.

Please note that admission to the University does not guarantee on-campus housing accommodation. Students must apply separately for housing and accommodations cannot be guaranteed until a student is officially accepted for admission to the University.

For more information, please contact UNO Student Housing at (504) 280-6402 or e-mail [studenthousing@uno.edu](mailto:studenthousing@uno.edu).

### **Lafitte Village**

The mission of Lafitte Village is to provide housing to married students, single-parent students, and couples in domestic partnerships at an affordable cost. This housing opportunity gives non-traditional students the ability to still pursue their education while also raising a family. Lafitte Village is conveniently located on the edge of UNO's campus, providing a more calm and quiet atmosphere.

Recently renovated, it offers one and two bedroom units, which all include stainless steel refrigerators and stoves, utilities, internet and basic cable television. Wi-Fi is available throughout the complex. The brand new playground and courtyard is a perfect place for children to play and also provides a place to study outside. A coin operated laundry is available on site.

The facility has card access to the complex which has surveillance cameras throughout the grounds and parking area.

Please note that admission to the University does not guarantee on-campus housing accommodations. Students must apply separately for housing and accommodations cannot be guaranteed until a student is officially accepted for admission to the University.

For more information, please contact UNO Student Housing at (504) 280-6402 or e-mail [studenthousing@uno.edu](mailto:studenthousing@uno.edu).

### **Privateer Place**

Privateer Place is an apartment-style community located on the campus of the University of New Orleans. Students are a short walk to classes and campus events. Privateer Place strives to create a "Place to Live, Learn, and Grow: Facilitating a fun, friendly, vibrant, and diverse community while supporting residents' academic success and encouraging personal growth and empowerment".

Privateer Place offers apartment style living with three floor plans, both private and semi-private. Accommodations and amenities are as follows: 9 and 12 month lease agreements; 4 bedroom /2 bathroom apartment (furnished) options, 2 bedroom /2 bathroom apartments (furnished) options and efficiency style apartments options (unfurnished).

Furnished units include a bed, student desk, desk chair, nightstand, and chest of drawers in each bedroom. Each common living area includes a couch, matching chair, coffee table, end table, and built-in dining table with chairs. All apartments include a refrigerator, stove, and dishwasher. Electricity allowance\*, water, and internet are all included in the rental installment. On-site amenities include gate controlled access, electronic key fobs, coinless on-site laundry facilities, swimming pool, hot tub, sand volleyball court, basketball, barbecue picnic pavilion, and clubhouse with Wi-Fi.

Privateer Place is open during academic breaks, and residents are able to stay in apartments throughout the lease term. For leasing information please visit us at [www.privateerplaceUNO.com](http://www.privateerplaceUNO.com) or call our office at (504) 282-5670.

\*The Electricity Allowance is \$10 per bed space.

## Student Media

*Driftwood* is a weekly student newspaper containing general news, feature and sports stories, editorials and other columns. All positions are open to students.

The annually published literary magazine, *Ellipsis*, includes stories, poems, photographs and drawings by members of the UNO community and publishes award-winning work by UNO students.

## Student Organizations

Student organizations are a vital part of undergraduate and graduate experiences at the University of New Orleans. With approximately 130 recognized student organizations at UNO, students have been able to take advantage of the many opportunities outside the classroom. As a member of a UNO organization, students have developed leadership and interpersonal skills, built friendships, and served the community, the campus, and people around them. Types of groups include professional, honors, political, religious, service, social, Greek, special interest, and departmental. ([www.sil.uno.edu](http://www.sil.uno.edu))

The list of all recognized student organizations can be found at: <http://www.uno.edu/student-involvement-leadership/orgs/directory.aspx>

## The Office of Student Involvement and Leadership

The Office of Student Involvement and Leadership is committed to providing programs and opportunities through which students may become meaningfully involved in campus life. These programs and initiatives include leadership development, organizational involvement, campus wide entertainment, cultural and educational programs, volunteer service, and recognition. The Office of Student Involvement and Leadership strives to create opportunities so that students can achieve academically and socially in ways that will facilitate their transition into the world as responsible citizens. Areas falling under the purview of The Office of Student Involvement and Leadership include leadership development and advisement of student organizations, Student Government, Student Activities Council, the Leadership Cabinet, Greek Life and the Service Coalition. For more information, please refer to [www.sil.uno.edu](http://www.sil.uno.edu).

## UNO Career Services

UNO Career Services provides a range of services for current UNO students to explore career options, plan and prepare for the job search, and pursue their career goals. Services include résumé review, cover letter, mock interview, career preparation, self-assessment of work values/ethics, business etiquette/communication, career advising, majors and career pathways, networking and recruitment events, career fairs, and the coordination of internships and experiential educational opportunities. Career Services also manages the Career Compass which lists part-time and full-time job postings, as well as internships and volunteer opportunities. Once registered on the database, students receive notifications regarding career fairs, activities, events, hot jobs, and career news. For additional information, please visit [www.career.uno.edu](http://www.career.uno.edu) and/or follow us on [Twitter@UNOCareer](https://twitter.com/UNOCareer).

## Veterans' Affairs

The Office of Veterans' Affairs provides information on educational benefits for veterans attending UNO. Veterans eligible for educational benefits are urged to establish contact with this office when they arrive on campus. For further information call (504)280-6992, email [djraby@uno.edu](mailto:djraby@uno.edu), or visit the office at 105 Earl K Long Library, Privateer Enrollment Center or <http://www.uno.edu/registrar/veterans/index.aspx>.



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## Tuition and Fees

All University fees and charges are calculated and assessed consistent with policies and procedures of the Louisiana Board of Regents and the University of New Orleans. Information in this Catalog is intended to cover the

situations most students encounter. However, the University may have additional policies and procedures by which fees and charges are implemented or which may apply to unusual situations.

### Fee Descriptions

Below is a detailed description of course fees on student accounts. A complete list of the University's fees can be found on the University Registrar's website at <http://www.uno.edu/registrar/>. Please note: All fees are NON-REFUNDABLE after the 100% deadline date for each term.

#### Academic Excellence Fee

The Academic Excellence Fee is used to:

- enhance academic excellence at the University, including the hiring of faculty to teach additional course sections needed to meet student needs,
- reduce class sizes to improve the quality of instruction,
- operate instructional facilities to serve UNO's student population, and
- support services at the heart of the academic enterprise, notably libraries and computing.

This fee is \$10 per credit hour with a maximum of \$120 per semester.

#### Administrative Fee

Students who withdraw from the University within the Late Registration Period (typically, the first five business days of the semester) are charged a \$50 Administrative fee. In addition, all non-refundable fees (Registration/Late Registration Fee and International Fee) will remain on the student's account.

Past semester administration fees can be viewed within the Holds, Withdrawal and Fees section of the website on the Administrative Fee Table page.

#### Audit Course

Tuition and fees for audit classes are the same as enrolling in a credit course. Non-resident students will not be assessed the non-residency fee if the audit course is their only class. Please be aware that certain scholarships may not cover an audit course's tuition and fees. For any questions regarding scholarships or financial aid, please contact the Financial Aid and Scholarships Office or visit their website.

#### Building Use Fee

The Building Use Fee is authorized by House Bill 671. This fee shall be used to construct, acquire, repair,

maintain, operate, or improve the facilities and physical infrastructure of this university.

### Course Add Fee

Students will be charged \$50 per day to add a course during a specified period during Late Registration (typically at the end of the Late Registration Period - consult the Academic Calendar on the University Registrar's website for specific dates). This fee is intended to encourage students to finalize their schedule early to avoid any kind of financial or academic penalty.

### Distance Learning Fee

This fee is used to support the extra resources utilized by enrolling in distance learning courses. The fee is imposed for each distance learning course taken by a student which includes internet, compressed video, and televised classes. (all sections in the 400 section series). The rate is \$20 per course enrolled.

### Extended Payment Plan Option (EPPO) Fee

A \$50.00 non-refundable EPPO Fee will be assessed to all students who choose to use the EPPO. If students do not elect the EPPO and only pay the minimum balance due by the published due date, they will be charged the \$50 non-refundable EPPO fee.

### Graduate Enhancement Fee

This fee is a refundable fee used to support the extra expenses associated with the University's graduate school programs and is in addition to the academic excellence fee. The Graduate Enhancement Fee is applied only if a student is classified as a graduate student. The fee is \$33.00 per credit hour with no maximum. (Please note that Pre-MBA students are classified as graduate students and will be charged the Graduate Enhancement Fee. Students classified as GMBA and EMBA are excluded from the fee.)

### Health Insurance Plans

Please contact the Student Health Services Office for questions regarding insurance plans. The Student Health Services website provides specific information for health insurance costs.

### International Fee

These funds are used by the University to better manage the increased workload caused by the growth of international student enrollments and new federal compliance requirements. Rate is \$150.

### Late Registration Fee

This fee is used to support additional administrative costs required to adjust faculty and facility needs as a result of enrollment during Late Registration. The rate is \$150 and is nonrefundable.

### Late Payment Fee

This is a \$50 nonrefundable fee assessed if the minimum required payment is not made by the start of Late Registration. These dates change every semester and are posted on WebSTAR, students' fee bills, and the University Registrar and Bursar Office's websites.

### MBA Fee

In Compliance with Louisiana Act No. 788 and authorized by the Board of Supervisors of Louisiana State University Agriculture and Mechanical College a Professional Program Fee (PPF) is assessed in the MBA program at the University of New Orleans. This fee is invested to support the MBA program by reducing the size of MBA classes, increasing the number of electives through the hiring of qualified faculty, enhancing the MBA program's promotion, placement and alumni relations activities, raising the stipend of current graduate assistants, and increasing the number of available assistantships. This fee is a nonrefundable and does not apply to Pre-MBA students.

MBA Additional Fees	Fall 2013 - Spring 2014	Summer 2014
1-3 Hours	\$632	\$663
4-6 Hours	\$1,244	\$977

6 Hours and Up		\$1,173
7-8 Hours	\$1,570	
9 Hours and Up	\$2,000	

### Miscellaneous Lab Fees

This fee is used to enhance and maintain lab equipment/supplies and to ensure students receive the best educational experience while enrolled in the University's lab courses. See the Office of the University Registrar for a complete list of classes with lab fees.

### Non-Resident Fee

This fee is charged to those students classified as a non-resident of the State of Louisiana. For information on establishing residency, please contact the Office of Admissions.

### Off Campus Fee

The Off Campus Fee is allocated to support the cost of maintaining satellite campus facilities, which provides students with options for taking off campus classes. Rate is \$75 per course.

### Operational Fee

The operational fee was imposed by the 2004 Legislature to cover unfunded state mandates. This includes increases in retirement system costs, health insurance costs not funded through the state general fund appropriation, and the enhancement of instructional programs at the University.

### Other Mandatory Fees

These fees are used by the University to aid in funding various aspects of the University including campus beautification, student health services, the University Center, and a number of other items.

### Privateer Bucks

Mandatory Meal Plan - Beginning in Fall 2014, all full-time undergraduate students will receive \$75 Privateer Bucks each semester. Privateer Bucks are a Declining Balance Meal Plan that can be used at any campus dining location including The Galley (cafeteria), The Cove, Subway, Chick-Fil-A, Brewed Awakening, and all other locations. This fee will be placed on each student's account each semester. Privateer Bucks will "roll forward" so and can be used during a student's entire enrollment at the University. Any unused portion of this meal plan is refundable to the student upon departure from the University by contacting Campus Dining.

### Registration Fee

This is a non-refundable \$10 fee assessed to full-time and part-time students for completion of the registration process.

### State Surcharge (Credit Card Convenience Fee)

The University will charge a 2.5% Credit Card Convenience Fee for all credit and debit card payments toward tuition and fees. This fee is in accordance with Louisiana Revised Statute 49:316.1 and allows public institutions of higher education to recover some of the costs paid by the University for credit/debit card payments. In conjunction with this new fee, the University will no longer take credit/debit card payments at the bursar's counter and will no longer accept Visa through WebSTAR (MasterCard and American Express are still accepted).

### Technology Fee

This fee is assessed at \$5.00 per credit hour for up to a maximum of \$75 per semester. The fee is dedicated to the acquisition, installation, maintenance, and intelligent use of state-of-the-art technology, solely for the purpose of supporting and enhancing student life while preparing graduates for the workplaces of the twenty-first century.

### Utility Surcharge (Fuel Recovery)

This fee is used to meet energy costs which exceed the University's allotted energy budget. All funds collected are restricted and can only be applied to energy costs exceeding the energy budget. These funds are used only

after all budgeted state dollars for utilities are expended. Utility costs are monitored in order to adjust the charge up or down as needed.

#### Withdrawal "W" Policy

A fee of \$50 per course drop will be charged to an Undergraduate student receiving a grade of "W" for a class.

<http://www.uno.edu/bursar/TuitionFees/index.aspx>

### Undergraduate Tuition and Fees

Note: The University of New Orleans reserves the right to change tuition and fee without prior notice.

## Fall 2014

#### Credit Hours 1-6

Credit Hours	1	2	3	4	5	6
Tuition	874.65	874.65	874.65	1721.74	1721.74	1721.74
Other Mandatory Fees	135.35	135.35	135.35	264.26	264.26	264.26
Academic Excellence Fee	10.00	20.00	30.00	40.00	50.00	60.00
Technology Fee	5.00	10.00	15.00	20.00	25.00	30.00
Registration Fee	10.00	10.00	10.00	10.00	10.00	10.00
Fuel Recovery Fee	10.00	20.00	30.00	40.00	50.00	60.00
Building Use Fee	15.00	15.00	15.00	30.00	30.00	30.00
Operational Fee	22.00	22.00	22.00	43.00	43.00	43.00
<b>TOTAL</b>	<b>1082.00</b>	<b>1107.00</b>	<b>1132.00</b>	<b>2169.00</b>	<b>2194.00</b>	<b>2219.00</b>
Non-Resident Fee	2586.00	2568.00	2586.00	3410.00	3410.00	3410.00
<b>TOTAL</b>	<b>3668.00</b>	<b>3693.00</b>	<b>3718.00</b>	<b>5579.00</b>	<b>5604.00</b>	<b>5629.00</b>

#### Credit Hours 7-12

Credit Hours	7	8	9	10	11	12
Tuition	2174.99	2174.99	2174.99	2586.39	2586.39	2768.35
Other Mandatory Fees	334.01	334.01	334.01	398.61	398.61	425.65
Privateer Bucks						75.00
Academic Excellence Fee	70.00	80.00	90.00	100.00	110.00	120.00
Technology Fee	35.00	40.00	45.00	50.00	55.00	60.00
Registration Fee	10.00	10.00	10.00	10.00	10.00	10.00
Fuel Recovery Fee	70.00	80.00	90.00	100.00	110.00	120.00
Building Use Fee	38.00	38.00	38.00	45.00	45.00	48.00
Operational Fee	54.00	54.00	54.00	64.00	64.00	69.00
<b>TOTAL</b>	<b>2786.00</b>	<b>2811.00</b>	<b>2836.00</b>	<b>3354.00</b>	<b>3379.00</b>	<b>3696.00</b>

Non-Resident Fee	4681.00	4681.00	4681.00	5913.00	5913.00	6805.00
<b>TOTAL</b>	<b>7467.00</b>	<b>7492.00</b>	<b>7517.00</b>	<b>9267.00</b>	<b>9292.00</b>	<b>10501.00</b>

### Hours 13-18

Credit Hours	13	14	15	16	17	18
Tuition	2768.35	2768.35	2768.35	2768.35	2768.35	2768.35
Other Mandatory Fees	425.65	425.65	425.65	425.65	425.65	425.65
Privateer Bucks	75.00	75.00	75.00	75.00	75.00	75.00
Academic Excellence Fee	120.00	120.00	120.00	120.00	120.00	120.00
Technology Fee	65.00	70.00	75.00	75.00	75.00	75.00
Registration Fee	10.00	10.00	10.00	10.00	10.00	10.00
Fuel Recovery Fee	130.00	140.00	150.00	160.00	170.00	180.00
Building Use Fee	48.00	48.00	48.00	48.00	48.00	48.00
Operational Fee	69.00	69.00	69.00	69.00	69.00	69.00
<b>TOTAL</b>	<b>3711.00</b>	<b>3726.00</b>	<b>3741.00</b>	<b>3751.00</b>	<b>3761.00</b>	<b>3771.00</b>
Non-Resident Fee	6805.00	6805.00	6805.00	6805.00	6805.00	6805.00
<b>TOTAL</b>	<b>10516.00</b>	<b>10531.00</b>	<b>10546.00</b>	<b>10556.00</b>	<b>10566.00</b>	<b>10576.00</b>

#### Additional Fees:

- Off Campus Fee: \$75 (per course)
- International Fee: \$150
- Distance Education: \$20 (per course)

## Spring 2014

### Credit Hours 1-6

Credit Hours	1	2	3	4	5	6
Tuition	795.14	795.14	795.14	1565.22	1565.22	1565.22
Other Mandatory Fees	107.86	107.86	107.86	210.78	210.78	210.78
Academic Excellence Fee	10.00	20.00	30.00	40.00	50.00	60.00
Technology Fee	5.00	10.00	15.00	20.00	25.00	30.00
Registration Fee	10.00	10.00	10.00	10.00	10.00	10.00
Fuel Recovery Fee	10.00	20.00	30.00	40.00	50.00	60.00
Building Use Fee	15.00	15.00	15.00	30.00	30.00	30.00
Operational Fee	22.00	22.00	22.00	43.00	43.00	43.00
<b>TOTAL</b>	<b>975.00</b>	<b>1000.00</b>	<b>1025.00</b>	<b>1959.00</b>	<b>1984.00</b>	<b>2009.00</b>

Non-Resident Fee	2373.00	2373.00	2373.00	3129.00	3129.00	3129.00
<b>TOTAL</b>	<b>3348.00</b>	<b>3373.00</b>	<b>3398.00</b>	<b>5088.00</b>	<b>5113.00</b>	<b>5138.00</b>

### Credit Hours 7-12

Credit Hours	7	8	9	10	11	12
Tuition	1977.26	1977.26	1977.26	2351.26	2351.26	2516.68
Other Mandatory Fees	265.74	265.74	265.74	317.74	317.74	339.32
Academic Excellence Fee	70.00	80.00	90.00	100.00	110.00	120.00
Technology Fee	35.00	40.00	45.00	50.00	55.00	60.00
Registration Fee	10.00	10.00	10.00	10.00	10.00	10.00
Fuel Recovery Fee	70.00	80.00	90.00	100.00	110.00	120.00
Building Use Fee	38.00	38.00	38.00	45.00	45.00	48.00
Operational Fee	54.00	54.00	54.00	64.00	64.00	69.00
<b>TOTAL</b>	<b>2520.00</b>	<b>2545.00</b>	<b>2570.00</b>	<b>3038.00</b>	<b>3063.00</b>	<b>3283.00</b>
Non-Resident Fee	4296.00	4296.00	4296.00	5426.00	5426.00	6245.00
<b>TOTAL</b>	<b>6816.00</b>	<b>6841.00</b>	<b>6866.00</b>	<b>8464.00</b>	<b>8489.00</b>	<b>9528.00</b>

### Hours 13-18

Credit Hours	13	14	15	16	17	18
Tuition	2516.68	2516.68	2516.68	2516.68	2516.68	2516.68
Other Mandatory Fees	339.32	339.32	339.32	339.32	339.32	339.32
Academic Excellence Fee	120.00	120.00	120.00	120.00	120.00	120.00
Technology Fee	65.00	70.00	75.00	75.00	75.00	75.00
Registration Fee	10.00	10.00	10.00	10.00	10.00	10.00
Fuel Recovery Fee	130.00	140.00	150.00	160.00	170.00	180.00
Building Use Fee	48.00	48.00	48.00	48.00	48.00	48.00
Operational Fee	69.00	69.00	69.00	69.00	69.00	69.00
<b>TOTAL</b>	<b>3298.00</b>	<b>3313.00</b>	<b>3328.00</b>	<b>3338.00</b>	<b>3348.00</b>	<b>3358.00</b>
Non-Resident Fee	6245.00	6245.00	6245.00	6245.00	6245.00	6245.00
<b>TOTAL</b>	<b>9543.00</b>	<b>9558.00</b>	<b>9573.00</b>	<b>9583.00</b>	<b>9593.00</b>	<b>9603.00</b>

#### Additional Fees:

- Off Campus Fee: \$75 (per course)
- International Fee: \$150
- Distance Education: \$20 (per course)

## Summer 2014

### Credit Hours 1-6

Credit Hours	1	2	3	4	5	6
Tuition	845.01	845.01	845.01	1245.36	1245.36	1498.16
Other Mandatory Fees	96.99	96.99	96.99	142.64	142.64	171.84
Academic Excellence Fee	10.00	20.00	30.00	40.00	50.00	60.00
Technology Fee	5.00	10.00	15.00	20.00	25.00	30.00
Registration Fee	10.00	10.00	10.00	10.00	10.00	10.00
Fuel Recovery Fee	10.00	20.00	30.00	40.00	50.00	60.00
Building Use Fee	28.00	28.00	28.00	40.00	40.00	48.00
Operational Fee	23.00	23.00	23.00	33.00	33.00	40.00
<b>TOTAL</b>	<b>1028.00</b>	<b>1053.00</b>	<b>1078.00</b>	<b>1571.00</b>	<b>1596.00</b>	<b>1918.00</b>
Non-Resident Fee	2063.00	2063.00	2063.00	2795.00	2795.00	3658.00
<b>TOTAL</b>	<b>3091.00</b>	<b>3116.00</b>	<b>3141.00</b>	<b>4366.00</b>	<b>4391.00</b>	<b>5576.00</b>

### Credit Hours 7-12

Credit Hours	7	8	9	10	11	12
Tuition	1498.16	1498.16	1498.16	1498.16	1498.16	1498.16
Other Mandatory Fees	171.84	171.84	171.84	171.84	171.84	171.84
Academic Excellence Fee	70.00	80.00	90.00	100.00	110.00	120.00
Technology Fee	35.00	40.00	45.00	50.00	55.00	60.00
Registration Fee	10.00	10.00	10.00	10.00	10.00	10.00
Fuel Recovery Fee	70.00	80.00	90.00	100.00	110.00	120.00
Building Use Fee	48.00	48.00	48.00	48.00	48.00	48.00
Operational Fee	40.00	40.00	40.00	40.00	40.00	40.00
<b>TOTAL</b>	<b>1943.00</b>	<b>1968.00</b>	<b>1993.00</b>	<b>2018.00</b>	<b>2043.00</b>	<b>2068.00</b>
Non-Resident Fee	3658.00	3658.00	3658.00	3658.00	3658.00	3658.00
<b>TOTAL</b>	<b>5601.00</b>	<b>5626.00</b>	<b>5651.00</b>	<b>5676.00</b>	<b>5701.00</b>	<b>5726.00</b>

### Hours 13-18

Credit Hours	13	14	15	16	17	18
Tuition	1498.16	1498.16	1498.16	1498.16	1498.16	1498.16
Other Mandatory Fees	171.84	171.84	171.84	171.84	171.84	171.84
Academic Excellence Fee	120.00	120.00	120.00	120.00	120.00	120.00

Technology Fee	65.00	70.00	75.00	75.00	75.00	75.00
Registration Fee	10.00	10.00	10.00	10.00	10.00	10.00
Fuel Recovery Fee	130.00	140.00	150.00	160.00	170.00	180.00
Building Use Fee	48.00	48.00	48.00	48.00	48.00	48.00
Operational Fee	40.00	40.00	40.00	40.00	40.00	40.00
<b>TOTAL</b>	<b>2083.00</b>	<b>2098.00</b>	<b>2113.00</b>	<b>2123.00</b>	<b>2133.00</b>	<b>2143.00</b>
Non-Resident Fee	3658.00	3658.00	3658.00	3658.00	3658.00	3658.00
<b>TOTAL</b>	<b>5741.00</b>	<b>5756.00</b>	<b>5771.00</b>	<b>5781.00</b>	<b>5791.00</b>	<b>5801.00</b>

## Additional Fees:

- Off Campus Fee: \$75 (per course)
- International Fee: \$150
- Distance Education: \$20 (per course)

## Graduate Tuition and Fees

## Fall 2014

## Graduate: Credit Hours 1-6

Credit Hours	1	2	3	4	5	6
Tuition	874.65	874.65	874.65	1721.74	1721.74	1721.74
Other Mandatory Fees	142.35	142.35	142.35	279.26	279.26	279.26
Academic Excellence Fee	10.00	20.00	30.00	40.00	50.00	60.00
Technology Fee	5.00	10.00	15.00	20.00	25.00	30.00
Registration Fee	10.00	10.00	10.00	10.00	10.00	10.00
Fuel Recovery Fee	10.00	20.00	30.00	40.00	50.00	60.00
Building Use Fee	15.00	15.00	15.00	30.00	30.00	30.00
Operational Fee	22.00	22.00	22.00	43.00	43.00	43.00
Graduate Enhancement *excluding GMBA and EMBA	33.00	66.00	99.00	132.00	165.00	198.00
<b>TOTAL</b>	<b>1122.00</b>	<b>1180.00</b>	<b>1238.00</b>	<b>2316.00</b>	<b>2374.00</b>	<b>2432.00</b>
Non-Resident Fee	2586.00	2586.00	2586.00	3410.00	3410.00	3410.00
<b>TOTAL</b>	<b>3708.00</b>	<b>3766.00</b>	<b>3824.00</b>	<b>5726.00</b>	<b>5784.00</b>	<b>5842.00</b>

## Graduate: Credit Hours 7-12

Credit Hours	7	8	9	10	11	12
Tuition	2174.99	2174.99	2768.35	2768.35	2768.35	2768.35
Other Mandatory Fees	351.01	351.01	449.65	449.65	449.65	449.65

Academic Excellence Fee	70.00	80.00	90.00	100.00	110.00	120.00
Technology Fee	35.00	40.00	45.00	50.00	55.00	60.00
Registration Fee	10.00	10.00	10.00	10.00	10.00	10.00
Fuel Recovery Fee	70.00	80.00	90.00	100.00	110.00	120.00
Building Use Fee	38.00	38.00	48.00	48.00	48.00	48.00
Operational Fee	54.00	54.00	69.00	69.00	69.00	69.00
Graduate Enhancement *excluding GMBA and EMBA	231.00	264.00	297.00	330.00	363.00	396.00
<b>TOTAL</b>	<b>3034.00</b>	<b>3092.00</b>	<b>3867.00</b>	<b>3925.00</b>	<b>3983.00</b>	<b>4041.00</b>
Non-Resident Fee	4681.00	4681.00	6805.00	6805.00	6805.00	6805.00
<b>TOTAL</b>	<b>7715.00</b>	<b>7773.00</b>	<b>10672.00</b>	<b>10730.00</b>	<b>10788.00</b>	<b>10846.00</b>

**MBA Professional Fee (In addition to Tuition)**

Credit Hour	1 -3	4 -6	7 - 8	9 and Up
Fee Cost Per Credit Hour	\$632	\$1,244	\$1,570	\$2,000

**Additional Fees:**

- International Fee: \$150

## Spring 2014

**Graduate: Credit Hours 1-6**

Credit Hours	1	2	3	4	5	6
Tuition	795.14	795.14	795.14	1565.22	1565.22	1565.22
Other Mandatory Fees	107.86	107.86	107.86	210.78	210.78	210.78
Academic Excellence Fee	10.00	20.00	30.00	40.00	50.00	60.00
Technology Fee	5.00	10.00	15.00	20.00	25.00	30.00
Registration Fee	10.00	10.00	10.00	10.00	10.00	10.00
Fuel Recovery Fee	10.00	20.00	30.00	40.00	50.00	60.00
Building Use Fee	15.00	15.00	15.00	30.00	30.00	30.00
Operational Fee	22.00	22.00	22.00	43.00	43.00	43.00
Graduate Enhancement *excluding GMBA and EMBA	33.00	66.00	99.00	132.00	165.00	198.00
<b>TOTAL</b>	<b>1008.00</b>	<b>1066.00</b>	<b>1124.00</b>	<b>2091.00</b>	<b>2149.00</b>	<b>2207.00</b>
Non-Resident Fee	2373.00	2373.00	2373.00	3129.00	3129.00	3129.00

TOTAL	3381.00	3439.00	3497.00	5220.00	5278.00	5336.00
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**Graduate: Credit Hours 7-12**

Credit Hours	7	8	9	10	11	12
Tuition	1977.26	1977.26	2516.68	2516.68	2516.68	2516.68
Other Mandatory Fees	265.74	265.74	339.32	339.32	339.32	339.32
Academic Excellence Fee	70.00	80.00	90.00	100.00	110.00	120.00
Technology Fee	35.00	40.00	45.00	50.00	55.00	60.00
Registration Fee	10.00	10.00	10.00	10.00	10.00	10.00
Fuel Recovery Fee	70.00	80.00	90.00	100.00	110.00	120.00
Building Use Fee	38.00	38.00	48.00	48.00	48.00	48.00
Operational Fee	54.00	54.00	69.00	69.00	69.00	69.00
Graduate Enhancement *excluding GMBA and EMBA	231.00	264.00	297.00	330.00	363.00	396.00
<b>TOTAL</b>	<b>2751.00</b>	<b>2809.00</b>	<b>3505.00</b>	<b>3563.00</b>	<b>3621.00</b>	<b>3679.00</b>
Non-Resident Fee	4296.00	4296.00	6245.00	6245.00	6245.00	6245.00
<b>TOTAL</b>	<b>7047.00</b>	<b>7105.00</b>	<b>9750.00</b>	<b>9808.00</b>	<b>9866.00</b>	<b>9924.00</b>

**MBA Professional Fee (In addition to Tuition)**

Credit Hour	1 - 3	4 - 6	7 - 8	9 and Up
Fee Cost Per Credit Hour	\$632	\$1,244	\$1,570	\$2,000

**Additional Fees**

- International Fee: \$150

**Summer 2014**

**Graduate: Credit Hours 1-6**

Credit Hours	1	2	3	4	5	6
Tuition	845.01	845.01	845.01	1245.36	1245.36	1498.16
Other Mandatory Fees	96.99	96.99	96.99	142.64	142.64	171.84
Academic Excellence Fee	10.00	20.00	30.00	40.00	50.00	60.00
Technology Fee	5.00	10.00	15.00	20.00	25.00	30.00
Registration Fee	10.00	10.00	10.00	10.00	10.00	10.00
Fuel Recovery Fee	10.00	20.00	30.00	40.00	50.00	60.00

Building Use Fee	28.00	28.00	28.00	40.00	40.00	48.00
Operational Fee	23.00	23.00	23.00	33.00	33.00	40.00
Graduate Enhancement *excluding GMBA and EMBA	33.00	66.00	99.00	132.00	165.00	198.00
<b>TOTAL</b>	<b>1061.00</b>	<b>1119.00</b>	<b>1177.00</b>	<b>1703.00</b>	<b>1761.00</b>	<b>2116.00</b>
Non-Resident Fee	2063.00	2063.00	2063.00	2795.00	2795.00	3658.00
<b>TOTAL</b>	<b>3124.00</b>	<b>3182.00</b>	<b>3240.00</b>	<b>4498.00</b>	<b>4556.00</b>	<b>5774.00</b>

**Graduate: Credit Hours 7-12**

Credit Hours	7	8	9	10	11	12
Tuition	1498.16	1498.16	1498.16	1498.16	1498.16	1498.16
Other Mandatory Fees	171.84	171.84	171.84	171.84	171.84	171.84
Academic Excellence Fee	70.00	80.00	90.00	100.00	110.00	120.00
Technology Fee	35.00	40.00	45.00	50.00	55.00	60.00
Registration Fee	10.00	10.00	10.00	10.00	10.00	10.00
Fuel Recovery Fee	70.00	80.00	90.00	100.00	110.00	120.00
Building Use Fee	48.00	48.00	48.00	48.00	48.00	48.00
Operational Fee	40.00	40.00	40.00	40.00	40.00	40.00
Graduate Enhancement *excluding GMBA and EMBA	231.00	264.00	297.00	330.00	363.00	396.00
<b>TOTAL</b>	<b>2174.00</b>	<b>2232.00</b>	<b>2290.00</b>	<b>2348.00</b>	<b>2406.00</b>	<b>2464.00</b>
Non-Resident Fee	3658.00	3658.00	3658.00	3658.00	3658.00	3658.00
<b>TOTAL</b>	<b>5832.00</b>	<b>5890.00</b>	<b>5948.00</b>	<b>6006.00</b>	<b>6064.00</b>	<b>6122.00</b>

**MBA Professional Fee (In addition to Tuition)**

Credit Hour	1 -3	4 -5	6+
Fee Cost Per Credit Hour	663	997	1173

**Additional Fees:**

- International Fee: \$150

**Audit Course**

Fees for auditing classes are the same as for enrolling for credit. Nonresident fees, however, are not applicable if the student is enrolled in audit classes only. Audit classes cannot be used as eligible classes for establishing minimum enrollment requirements for Financial Aid Programs. (This includes all grant, loan, and scholarship programs).

## Special Fees (Non-Refundable)

Arts Administration (AADM) 6504	\$25
Biological Sciences 1042, 1051, 1061, 1071, 1081, 2014, 3284, 3854, 4334, 5334, 4384, 5384, 4414, 5414, 4624, 5624, 4844, 5844, 4914, 5914, 4944, 5944, 4974, 5974	\$22
Biological Sciences 1301, 2114, 2954, 4114	\$27.50
Biological Sciences 1311	\$33
Biological Sciences (BIOS) 4644, 5644	\$35
Biological Sciences (BIOS) 3354	\$40
Biological Sciences (BIOS) 2741	\$55
Chemistry 1007, 1008	\$40
Chemistry 2026	\$33
Chemistry 2017, 2018, 2025, 3027, 4028, 5028, 4030, 5030	\$60
Clinical Practice Fee: EDUC 4813, 5813, 4823, 5823, 4833, 5833, 4843, 5843, 4853, 5853, 5863, 5873, 5888, 4910, 5910, 4920, 5920, 4930, 4940, 5940, 4950, 5950, 4960, 5960, 4970, 5970, 5980, 5990, EDGC 6896, 6898	\$250
Earth and Environmental Science 1001, 1002, 1003, 1004, 1005	\$22
Earth and Environmental Science 2051, 2700, 2740, 3093, 3310, 4520, 5520, 4550, 5550, 4560, 5560, 4750, 4900, 5900	\$33
ENCE 2301, 2310, 2311, 3323, 3341, 3356, 4319, 5319, 4390, 5390	\$55
Electrical Engineering (ENEE) 2510, 3092, 3517, 3518	\$50
ENEE 2586, 3091, 3511, 3514, 3516, 3574	\$55
Engineering Lab	\$55
English 2311, 2312	\$11
ENME 1781, 2711, 3711, 3716, 3733	\$55
Fine Arts (FA) 2201, 2202, 2203, 2231, 2264, 4240, 5240, 4245, 5245, 4267, 5267, 4270, 5270, 4271, 5271, 4272, 5272, 4273, 5273, 4274, 5274, 4275, 5275, 4280, 5280, 4281, 5281	\$25
Fine Arts 4599	\$45
Fine Arts 1050, 1051, 1060, 1061, 1551, 3301, 3302	\$75
Fine Arts 2450, 2550, 2650, 2750, 2850, 4650	\$85
Fine Arts (FA) 3650, 3750, 3850	\$100
Fine Arts 3550, 4550, 4750	\$165
Film and Theatre Arts 2110, 4110, 5110	\$10
Film and Theatre Arts 1100, 2160	\$40
Film and Theatre Arts 4120, 5120	\$50
Film and Theatre Arts 3510, 4510, 5510, 6510	\$110
Hotel, Restaurant and Tourism Administration 2030	\$137.50
Hotel, Restaurant and Tourism Administration 3141	\$55

Hotel, Restaurant and Tourism Administration 4230	\$16.50
Mathematics 1115, 1125	\$20
Music 3950, 3960, 3990, 6950, 6990	\$82.50
Music Applied Lessons	\$220
Naval Architecture (NAME) 3155, 6145	\$50
NAME 3130, 4170	\$55
Physics 1003, 1004, 1007, 1008, 1011, 1033, 1034, 1063, 1065	\$22
UNIV 1001	\$50/course
Distance Learning Fees (400-499sections only)	\$20/course
Co-op course fee	\$82.50

## Miscellaneous Fees

Registration Fee NON-REFUNDABLE	\$10
Late Registration Fee NON-REFUNDABLE	\$150
Application Fee NON-REFUNDABLE	\$20
Advanced Standing Examination Fee	\$20
Graduate Enhancement Fee	\$33/ cr.hr.
Extended Payment Plan Option (EPPO) NON-REFUNDABLE Not available for Summer semesters	\$50
Undergraduate "W" Drop Fee	\$50
Add Fee During Schedule Adjustment Period	\$50/day
International Student Fee NON-REFUNDABLE	\$150
Off-Campus Registration Fee NON-REFUNDABLE <sup>2</sup> (except for Graduate students)	\$75
Technology Fee (\$75 maximum per semester)	\$5/credit hour
Building Use Fee-Undergraduate (Fall and Spring)	
1-3 hours	\$15
4-6 hours	\$30
7-9 hours	\$38
10-11 hours	\$45
12 hours plus	\$48
Building Use Fee-Graduate (Fall and Spring)	
1-3 hours	\$15
4-6 hours	\$30
7-8 hours	\$38
9 hours and up	\$48

Operational Fee–Undergraduate (Fall and Spring)	
1-3 hours	\$22
4-6 hours	\$43
7-9 hours	\$54
10-11 hours	\$64
12 hours plus	\$69
Operational Fee–Graduate (Fall and Spring)	
1-3 hours	\$22
4-6 hours	\$43
7-8 hours	\$54
9 hours and up	\$69
Operational Fee–Undergraduate (Summer)	
1-3 hours	\$23
4-5 hours	\$33
6 hours and up	\$40
Operational Fee–Graduate (Summer)	
1-3 hours	\$23
4-5 hours	\$33
6 hours and up	\$40
Professional Program Fee – MBA	
Summer	
1-3 credits	\$663
4-5 credits	\$977
6-Up	\$1,173
Fall and Spring	
1-3 credits	\$632
4-6 credits	\$1,244
7-8 credits	\$1,570
9-Up	\$2,000
Fuel Recovery Fee (Fall and Spring)	\$10 per credit hour
Academic Excellence Fee	\$10/credit hour (\$120 maximum)
Privateer Bucks – Mandatory Meal Plan	\$75

### Insurance Fees (International Students Only)

Students age 34 and younger	Annual	Fall	Spring-Summer	Summer Only

Student Only	\$1,367	\$554	\$840	\$359
Spouse	\$3,941	\$1,597	\$1,423	\$336
Each Child	\$2,259	\$1,025	\$1,555	\$664
<b>Students age 35 and older</b>	<b>Annual</b>	<b>Fall</b>	<b>Spring-Summer</b>	<b>Summer Only</b>
Student Only	\$1,367	\$554	\$840	\$359
Spouse	\$3,941	\$1,597	\$1,423	\$336
Each Child	\$2,259	\$1,025	\$1,555	\$664

## Diploma Fees

\*Diploma Fees are non-refundable and required to graduate

Bachelor's	\$50
Master's	\$50
Doctoral	\$50
Dissertation Processing & Microfilming	\$45
Degree only fee	\$15
Diploma remake	\$50

1. This fee will not be assessed to first-time freshmen.
2. Also applies to undergraduate students enrolled in both on- and off-campus courses.

## Refund of Fees

Students who resign from the university or decrease their course load within established timelines for the semester as indicated in the published calendar will be eligible for a full or partial refund. Eligible students may only receive a refund for tuition and self-generated fees. Other fees are non-refundable. Students do not receive a tuition refund for a decrease in course load after the 100% date. After the 100% date, students must completely withdraw to receive any type of refund. The schedules below provide the refund timelines for the 2014-15 academic year.

The schedule for the refund timelines for the 2014-15 academic year is available at [http://www.uno.edu/bursar/AcctInfo/Tuition\\_Refund\\_Schedule.aspx](http://www.uno.edu/bursar/AcctInfo/Tuition_Refund_Schedule.aspx).

### Military Service Refund

1. If a student elects to take a grade of "I" and/or a final grade in some of his/her courses and "W" in others, the refund shall be that portion of tuition and fees for those courses in which the student chooses to receive a grade of "W". Auxiliary services charges shall be refunded on a pro-rata or unused basis, whichever is appropriate.
2. 100% of all tuition and fees shall be refunded excluding student insurance purchased by the student. Auxiliary services charges shall be refunded on a pro-rata or unused basis, whichever is appropriate.

Documentary proof establishing voluntary or involuntary enlistment must be submitted to the Office of the Registrar and will be required before any fees are refunded.

## Motor Vehicle Registration

All UNO students (inclusive of full-time, part-time, day, evening, Saturday only, etc.,) must purchase a parking decal prior to parking any vehicle on the main campus or east campus. All parking on campus (except in pay

parking lots) is by parking permit only. Decals are issued Monday-Friday between 8:00 a.m. thru 4:30 p.m. at the University Police Office, 234 Computer Center, 2000 Lakeshore Drive, New Orleans, LA 70148.

To obtain a parking permit University Police requires:

- Receipt from completion of online application for decal or payment receipt for a parking decal from the Bursar's counter.
- Current driver's license
- Current motor vehicle registration (if a new vehicle, present your temporary license plate, which is attached to the back of your temporary registration paper)

#### Vehicle Registration Fees

	1st Motor Vehicle	Additional Motor Vehicle
Fall Semester	\$100	\$50
Spring Semester	\$85	\$43
Summer Session	\$60	\$30

Student decals are issued beginning the first day of Late Registration. Residential decals for Pontchartrain Hall and Lafitte Village must be renewed each semester. Privateer Place decals are issued by Privateer Place management personnel. There is no cost for residential decals.

Fees are subject to change without prior notice, and no refunds will be issued. However, decals will be replaced without charge (e.g., to accommodate broken rear windshields, new car purchases, and similar situations) if they are removed (valid decals only) and brought (with the current year and number of the decal showing) to University Police; otherwise, students will be charged for an additional decal in accordance with the rates in effect for that particular semester.

The Parking Decal must be permanently affixed to the vehicle to which it is assigned. Registration is not complete until the decal is affixed to the outside lower part of the rear windshield on the left (driver's) side in the self-adhesive manner. Decals are nontransferable. For further information please check:

[http://www.uno.edu/upd/parking\\_services.aspx](http://www.uno.edu/upd/parking_services.aspx)



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## University

The University of New Orleans (UNO), the urban research university of the State of Louisiana, was established by the Louisiana Legislature in 1956 to bring public-supported higher education to the state's largest urban community. The Board of Supervisors of the Louisiana State University acquired a 195-acre site on the southern shore of Lake Pontchartrain within the City of New Orleans. A number of the buildings remaining on the property from its prior use as an air station for the United States Navy were renovated for academic purposes during the winter and spring of 1958. In September 1958, Louisiana State University in New Orleans, which was renamed the University of New Orleans in 1974, opened to nearly 1,500 freshman students, more than twice the number anticipated. Only a freshman curriculum was offered the first year. In succeeding years, additional levels of curricula were developed and offered so that by 1962 the University was operating as a full four-year, degree-granting institution. Programs of study are now offered through five academic undergraduate colleges: Business Administration, Education and Human Development, Engineering, Liberal Arts and Sciences – in addition to the Graduate School. Legislation was passed in the 2011 session to move UNO from the Louisiana State University (LSU) System into the University of Louisiana System (ULS).

UNO has grown to become a research university that provides essential support for the educational, economic, cultural, and social well-being of the culturally rich and diverse New Orleans metropolitan area. Located in an international city, the university serves as an important link between Louisiana and both the nation and the world. The university strategically serves the needs of the region through mutually beneficial collaborations with public and private bodies whose missions and goals are consistent with and supportive of UNO's teaching, scholarly, and community service objectives. Joint projects with schools, governments, foundations, businesses, and civic groups enrich opportunities for learning and community growth. Research and graduate programs focus on fields of study in which UNO is nationally competitive or responding to specific state or regional needs. UNO offers more than one hundred challenging and in-demand programs, many of which are uniquely linked to the rich and vibrant city of New Orleans.

UNO is a selective admissions university serving approximately 10,000 students. Of this number, nearly three-fourths are undergraduates and a fourth are graduate students in both Master's and Doctoral programs. The University's diverse population is comprised of students from a broad range of backgrounds, representing nearly every state in the U.S. and one hundred countries across the globe. The university is committed to providing a supportive and student-centered learning environment for high-achieving and motivated students that enhances their success. UNO strives to enrich the quality of campus life through extra-curricular activities and programming. In addition to serving traditional aged students, the university supports a large population of non-traditional students whose experiences and motivation prepare them for programs of study leading to degrees as well as to professional and personal advancement.

UNO is classified as a Southern Regional Education Board Four-Year II institution, a Carnegie Doctoral/Research Intensive University and a Southern Association of Colleges and Schools Level VI institution. The University of New Orleans is committed to continual improvement through a vibrant strategic planning process.

## Mission and Vision

## *The University of New Orleans: A Student-Centered, Urban Research University*

### Mission

The University of New Orleans is a comprehensive urban research university committed to providing educational excellence to a diverse undergraduate and graduate student body. The University is one of the region's foremost public resources, offering a variety of world-class, research-based programs, advancing shared knowledge and adding to the region's industry, culture and economy. The University of New Orleans, as a global community asset, serves national and international students and enhances the quality of life in New Orleans, the state, the nation, and the world, by participating in a broad array of research, service learning, cultural and academic activities.

### Scope

The University of New Orleans, as an urban research university, offers a number of challenging and in-demand programs, many of which are uniquely linked to the rich and vibrant city of New Orleans. The University of New Orleans grants baccalaureate, master's and doctoral degrees in academic colleges, including but not limited to: business administration, education and human development, engineering, liberal arts, and sciences, as well as interdisciplinary studies.

### Vision

The University of New Orleans will be recognized as one of the preeminent urban research institutions in the nation, noted for its commitment to excellence in teaching and in student success; its location in a culturally vibrant city; its innovative and relevant undergraduate, graduate, professional and research programs; and its role as a primary engine of social, economic, intellectual and cultural development in the New Orleans region and beyond.



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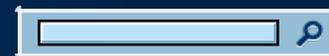
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## University Regulations

The Catalog represents a flexible program of current educational plans, offerings, and requirements that may be altered from time to time to carry out the purposes and objectives of the university. The provisions of this publication do not constitute an offer of contract that may be accepted by students through registration and enrollment in the university; the university reserves the right to change any provision, offering, or requirements at any time within the student's period of study.

For ease of use, topics are presented in alphabetical order.

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### Academic Renewal at another University

A student who has enrolled at another regionally accredited institution of higher education under an academic renewal plan (e.g., academic amnesty or bankruptcy) may be considered for Academic Renewal at UNO provided that:

1. The academic renewal plan at the previous institution meets all the provisions of the academic renewal plan at UNO;
2. Credits earned since the student entered the program at a previous institution will be evaluated in the same manner as credits for other transfer students; and,
3. The petition for Academic Renewal is submitted for approval to The Office of Admissions and subsequently to the student's Academic College.

For Scholastic Amnesty/Renewal at the University of New Orleans, please see "[Scholastic Amnesty/Renewal](#)". Please contact Office of Admissions for further information about academic Renewal and Scholastic Amnesty.

## Academic Standing - General

Scholastic regulations embody the academic standards of a university. The application of the following regulations is directed toward upholding the standards of this University - specifically, to impose the requirement of satisfactory academic progress. Continuation of students who have demonstrated a lack of the necessary ability, preparation, industry, or maturity to make such progress and to benefit from a Program of Study is inconsistent with the purposes and responsibilities of a University.

The academic regulations set forth the conditions for Good Standing, Probation, and Suspension/Dismissal. These regulations are intended to be consistent with the following objectives:

1. To indicate to the student, at an early date and with regularity, that achievement below the standards required for graduation is regarded as unsatisfactory.
2. To allow the first-time freshman the opportunity to remain a student until he/she has attempted two enrollments.
3. To give the student who performs poorly a warning which may prompt him or her to seek timely help from instructors, counselors or other appropriate sources.
4. To provide the student whose record shows that ultimate success in the University is in doubt with a trial period to prove that he/she is able to make reasonable academic progress.
5. To prevent the student who lacks the required motivation or maturity from building a deficiency of quality points so great that it cannot later be overcome.
6. To state the standards and the consequent results of inadequate scholastic performance clearly enough that students, parents, faculty, and administrators can know the academic action (if any) which would follow from a particular academic record.

## Academic Good Standing

It is expected that all undergraduate students should maintain a cumulative grade-point average of at least 2.0 (Cumulative GPA) on all college work attempted and on all work attempted at UNO. The University will, however, certify a student to be in Good Standing as long as that student has a CGPA that does not result in an Academic Suspension or Indefinite Academic Suspension/Dismissal.

## Academic Probation

A student will be placed on Academic Probation when their CGPA falls below a 2.0. A student on Academic Probation will be suspended from the University at the conclusion of any semester (Summer included) in which he/she fails to earn a TGPA (Term Grade Point Average – see definition in this chapter) of at least a 2.0 (see Academic Suspension below). A student will remain on Academic Probation until an overall Cumulative Grade-Point average of 2.0 or higher is achieved for all college work attempted.

## Academic Suspension

Undergraduate students on Academic Probation will be suspended from UNO at the conclusion of any semester (Summer included) in which they fail to earn a TGPA of at least a 2.0. First-time freshmen admitted in Good Standing will not be suspended prior to the completion of two semesters of enrollment.

## Academic Suspension/Dismissal (Indefinite Academic Suspension)

Undergraduate students earning a second Academic Suspension at The University of New Orleans are placed on Indefinite Academic Suspension/Dismissal which will be for a period of one calendar year from the date of the last term in which the academic action was accrued. Any student who is not permitted to re-enroll for continuing semesters must apply for re-admission upon completion of the prescribed period of absence. Prior admission decisions will not guarantee re-admission to the University.

## Academic Suspension/Dismissal Exceptions

1. A student suspended for the first time at the end of the Spring semester (only) may attend summer school. If the student raises their CGPA to 2.0 or higher, they are placed in Good Standing and their suspension period is lifted. The student may then attend the Fall semester. If the student does not raise their CGPA to 2.0 or higher in the Summer session, the Suspension for the Fall semester is in effect. In this case, only one suspension is counted against the student.
2. A student earning Indefinite Academic Suspension/Dismissal at the end of the Spring semester (only) may also attend summer school. If the student raises their CGPA to 2.0 or higher, they are placed in Good Standing and their suspension period is lifted. The student may then attend the Fall semester. If the student does not raise their CGPA to 2.0 or higher in the Summer session, the Indefinite Academic Suspension/Dismissal for the calendar year is in effect.
3. An undergraduate student suspended from UNO may not earn degree credit from another 4 year university, but may enroll in a community college. To ensure minimal or no loss of credits upon return to UNO, it is recommended the student consult with his/her advisor regarding the choice of courses to be taken at the community college. Credits earned under these conditions may be accepted for a degree at UNO provided grades of "C" or higher are earned in each of the courses to be transferred.

## Academic Suspension or Indefinite Academic Suspension/Dismissal - Readmission

A student who has been suspended or dismissed from the University will not be permitted to register until the expiration of their academic action (see descriptions above). The student must re-apply for Admission to the University through the Office of Admissions.

## Academic Warning

A student is placed on Academic Warning when the earned Semester/Term GPA (TGPA) falls below a 2.0 yet the earned Cumulative GPA (CPGA) remains higher than a 2.0. This academic action serves as a warning to the student their CGPA will be negatively impacted by future Semester/Term GPA's lower than the required CGPA of 2.0.

First Suspension – first Suspension at The University of New Orleans is one full semester (Fall or Spring only).

Second or Subsequent Suspension – second or subsequent Suspensions at The University of New Orleans is categorized as Indefinite Academic Suspension/Dismissal. See description above.

## Advanced Standing - Advanced Credit (Other)

Advanced credit may be awarded for certain subject examinations completed through the College Level Examination Program (CLEP) and for non-collegiate courses recommended for credit by the National Guide to Credit Recommendations for Non-Collegiate Courses. Credit so earned may or may not be applicable to the student's degree program; final determination will be made by the student's Dean. Prospective students desiring detailed information on these programs are advised to write to the Office of Admissions requesting a brochure on advanced placement and credit.

## Advanced Standing - Advanced Placement Credit for Courses Bypassed by New Freshmen

In some departments, initial placement in sequential courses is based upon level of achievement from earlier training, as measured by scores on American College Testing program or departmental tests. Students who secured placement in this way above the normal beginning level may petition for credit in the courses bypassed contingent upon earning a satisfactory score on the departmental bypass test. No credit is allowed for remedial courses bypassed. More information is available on the department sites. Completion of assessment for bypass credit must be completed prior to earning 60 academic credits.

## Advanced Standing - CEEB Advanced Placement Examinations

Advanced placement and credit will be granted in appropriate subjects to students who have taken the Advanced Placement Examinations of the College Entrance Examination Board. When the student has achieved a grade of four or five on the advanced placement examination, credit will be granted; when the grade is three, the decision regarding credit will be referred to the judgment of the individual department.

Questions concerning the recording of these grades should be directed to the Office of Admissions.

## Advanced Standing - Credit Limitation

Credit from all forms of advanced standing examinations (including those of the College Entrance Examination Board and the College Level Examination Program) and from bypass credit cannot exceed 30 hours. This credit cannot be used to reduce the University's minimum residence requirement.

## Advanced Standing Examinations/Opportunities - General

Students of superior ability and preparation and students who have already gained fundamental knowledge of subjects offered at the University may be permitted to take Advanced Standing Examinations in specific courses which, if passed satisfactorily, will enable the student to receive degree credit. Advanced Standing Examinations are also referred to as 'Credit Examinations'.

Requests for permission to utilize such examinations are initiated in the office of the dean of the college, school, or division in which the student is enrolled, and permission may be given subject to the following conditions:

1. Credit by Advanced Standing Examinations cannot be used to reduce the University's minimum residence requirement;
2. The student must have been admitted to the University and must be in Academic Good Standing. If the examinations are taken while the student is not enrolled in the University, credit will be granted when he/she is registered for resident study.
3. In requesting authorization to take an Advanced Standing Examination, the student must obtain permission from the Chair of the Department offering the course and the Dean of the College in which the course is taught.
4. A student may not take an Advanced Standing Examination in a course which he/she has audited, nor in which a grade has been earned. A student may take an Advanced Standing Examination in a given course only once.

The administration of the examinations is also subject to the following regulations:

1. The examination must ordinarily be taken and the grade submitted within 30 days of the date of initiation of the request.
2. If a grade of C or higher is earned on the examination, a mark of P and regular credit in the course is entered on the student's record. If a grade lower than C is earned, only the fact that the examination has been attempted will be recorded; credit will not be allowed. Credit earned through Advanced Standing Examinations will not be used in computing the student's Grade Point Average.
3. Advanced Standing Examinations are given free of charge to the student planning to enroll at UNO as a freshman, and until the final date for dropping courses without receiving grades for the first regular semester in which he/she is enrolled either part-time or full-time as a first-year student. All other students must pay a fee of \$20 per course.

A special invitation only program is conducted during the spring of each year in which prospective freshmen who meet certain minimum ACT score qualifications come to the campus and take Advanced Standing Examinations in one or more subjects. There is no fee for these exams and credits earned will be entered on the student's record after official enrollment at UNO.

## Advanced Standing - Validation of Advanced Placement

The validity of placement must be established by passing the next course in the sequence with a C or better grade (on the first attempt). Detailed information may be secured at the office of the college or division in which the student is enrolled.

## Appeals - Grades

The course final grade appeal policy provides the student with a safeguard against receiving an unfair final grade in a course, while at the same time respecting the academic freedom of the instructor which is vital to the integrity of the teaching process at The University of New Orleans. The course final-grade appeal process strives to resolve a dispute between student and instructor in the assignment of a course final grade at the collegial level. The intent is never to embarrass or disgrace students or instructors, nor to assess penalty or retribution on any party when mistakes are discovered, but instead to provide a neutral forum for the discussion of differences of opinion. Every student has the right to have a request for consideration of his/her final grade reviewed by the Chair of the department and a departmental Grade Appeal Committee. The course final-grade appeal is confined to charges of unfair action against an individual student and may not involve a challenge of an instructor's class

grading standard. It is incumbent on the student to substantiate the claim that his/her final grade in the course represents unfair treatment, compared to the standard applied to the remainder of the class. Only the final grade in a course may be appealed. Grade appeals must be initiated within one semester of the end of the academic semester in which the grade was earned – See the Student Handbook for appeal procedures.

### Appeals – Student (General)

When extraordinary circumstances compel a student to request an exception to University Policy or Regulations, the student must petition the Committee for Student Appeals, a standing committee of the Office of Academic Affairs, for exception.

1. Requests for exceptions must be made within one semester following the end of the semester that is being appealed.
2. Students may not petition for exceptions after graduating.
3. All committee procedures are confidential, respecting the privacy of the student.
4. Committee decisions are final.

The procedure for appeal can be found on the Appeal Form found on the Registrar's Website at <http://registrar.uno.edu>.

### Attendance Regulations – Online

Students are required to log in to each online course by the second day of the week in which the course officially begins or the day of enrollment during the late registration period to complete the initial postings required in the course.

Students must review the attendance requirements of the course in which they are enrolled.

Students are strongly advised to check e-mail daily in addition to logging in to the course on a regular basis.

### Attendance Regulations - Traditional

Students :

All students are expected to regularly and punctually attend classes in which they are enrolled. Failure to do so may jeopardize a student's scholastic standing and may lead to suspension from the University.

Students are responsible for the affect absences have on all forms of evaluating course performance. The student is responsible for arranging the allowed make up of any missed work.

Faculty:

Faculty are required to state, in writing, their expectations regarding class attendance.

Faculty are expected to work with students to allow for completion of classwork and assignments if the student's absence results from his/her required participation in a University-sponsored activity provided that, prior to the absence, the student makes arrangement to complete all missed work.

Students are usually allowed to make up work and/or tests missed because of serious illness, accident, or death in the immediate family.

### Changing Majors, Minors, Concentrations, and Options

Students will not be allowed to change their Program of Study/Major for the current term. The current term begins on the first day of classes. Students may change their Program of Study/Major at any time; however, after the term has begun (the first day of classes), the change of Program of Study/Major will be made effective for the next available term. All Major, Minor, Concentration or Option changes must be declared at least one semester prior to the expected graduation term.

### Classification - Student

Classification of undergraduate students is made in the Office of the Registrar based on the number of credits earned, and is revised, as may be necessary.

The rules governing the classification of undergraduate students are:

- a. Freshmen: Students having fewer than 30 hours of credit (0 – 29.99).
- b. Sophomores: Students having at least 30 hours of credit (30 – 59.99).
- c. Juniors: Students having at least 60 semester hours of credit (60 – 89.99).
- d. Seniors: Students having at least 90 semester hours of credit (90+).

## Code of Student Conduct

Please refer to the following link:

<http://www.uno.edu/student-affairs-enrollment-management/student-policies/index.aspx>

## Concurrent Registration

A student registered at UNO may not automatically receive degree credit at UNO for any work taken concurrently at another college or university or by correspondence study. Any work taken concurrently at another college or university would be subject to UNO's transfer articulation policies and evaluation criteria. Students must have approval from their college dean before seeking concurrent enrollment.

## Contact Information

Students are responsible for accurately maintaining their demographic contact information via the University's web portal – WebSTAR. The University considers each student's school/UNO email address as the official, formal contact point. All official university correspondence will be sent to this address. Students should further maintain their physical addresses via WebSTAR as there are periodic occasions when students will be contacted via USPS. The University will consider all correspondence mailed to a student at their email or physical address currently on file to have been received unless it is returned to the sender.

## Credits and Semester Hours

In accordance with Federal guidelines, The University of New Orleans defines a credit hour as (a) the amount of student time investment that reasonably approximates one hour of classroom or direct faculty instruction and a minimum of two hours out of class student work for approximately fifteen weeks for one semester or (b) at least an equivalent amount of work as outlined in (a) for other academic activities as established by the University including laboratory work, internships, practica, studio work, and other academic work leading to the award of credit hours. In accordance with commonly accepted practices in higher education, UNO operates on a 50-minute hour for this definition.

For each course, the course syllabus will document the amount of in-class (or other direct faculty instruction) and out-of-class work required to earn the credit hour(s) assigned to the course. Out-of-class work will include all forms of credit-bearing activity, including but not limited to assignments, readings, studying, observations, conducting research, writing, and musical practice.

Where available, the university grants academic credit for students who verify via competency-based testing, that they have accomplished the learning outcomes associated with a course that would normally meet the requirements outlined above (e.g. AP credit, CLEP, and departmental exams)."

## Credit for Armed Services Courses

Many military educational programs are not directly usable in university degree programs because the focus is too narrow and pragmatic. On the other hand, some service schools provide instruction which may be equated with university work.

When the student presents the Office of Admissions with an official record of completion of a course at a service school, a notation will be made on the student's evaluation sheet in accordance with the recommendation of the Guide to the Evaluation of Educational Experiences in the Armed Services prepared by the American Council on Education. Credit for such courses may or may not be applicable toward the student's degree program; this will be determined by the student's Dean.

## Credit for Correspondence and Extension Work

Each college fixes the amount of degree credit it will accept in correspondence or extension courses. In no case

will a College accept more than 30 hours of work in this category and in all such work presented for degree credit the same requirements as to grades and quality points must be met.

### Credit for Experiential Learning

The University does not evaluate experiential learning portfolios. However, for non-traditional educational programs, credit may be awarded on the basis of the successful completion of an appropriate advanced standing examination. Discretion for giving such an examination belongs to the individual academic department. In addition, formal education programs sponsored by non-collegiate organizations (business, industry, government, voluntary, and professional agencies) may be awarded credit if recommended by the American Council on Education.

### Credit Limitation

Combined credit from advanced standing examinations, bypassed credit, armed services credit, correspondence/extension, and American Council on Education recommended credit work cannot exceed 30 hours.

### Credit for Repeated Courses

When a student is permitted to repeat a course for credit, the last grade earned shall be the one which determines course acceptability for degree credit. A student who has earned a C or better in a course may not repeat that course unless,

1. the catalog description indicates that the course may be repeated for credit, or
2. the student's Dean gives prior approval for documented extenuating circumstances.

### Credit from other institutions

Through the Office of Academic Affairs, the University Registrar and the Executive Director of Enrollment Services share responsibility for the admission of transfer students and the acceptance of transfer credit as applicable toward the degree at the University of New Orleans. The University of New Orleans transfer admission policies abide by Board of Regents Policy, the Undergraduate Catalog, the Graduate Catalog, and are posted on the Office of Undergraduate Admission and the University Registrar's website.

#### Undergraduate Admissions:

An undergraduate transfer applicant should request each college or university he or she has attended to send a transcript to the Office of Admissions. Upon receipt of all transcripts, the previously earned credit is reviewed and a Cumulative GPA is determined for purposes of admission. Once admission has been determined, those credits are then evaluated for application toward those courses making up the degreed program of study. Additional information may be found at the following sites:

<http://www.uno.edu/admissions/apply/transfer/transfercollegecredit.aspx>

<http://latransferdegree.org/>

#### Office of the University Registrar:

Courses evaluated by The University of New Orleans for credit earned from regionally accredited institutions will carry the grade earned at the institution where the courses were taken if the grading system used is comparable to UNO's grading system. However, credits earned at foreign colleges and universities will carry the grade of "P". Technical and vocational credits are not accepted, credits for varsity sports, or credits from non-accredited institutions are not accepted. Transfer students should become familiar with sections of this Catalog concerning the grading system, course repeat policy, and other academic regulations.

The extent to which any transfer courses may be applied toward a degree at UNO is determined by the Academic Dean of each College. A transfer student may complete requirements for graduation in the UNO Catalog in effect at the time of initial enrollment unless the student elects to change to another curriculum or there is a break of one semester or more in attendance at UNO. If there is a break of enrollment greater than one term (excluding Summer), the student is subject to the Catalog in effect when re-entering. Students who change their Major will be subject to the Catalog in effect when the change of Major occurs.

Students who wish to transfer credits to UNO which were earned in a nontraditional manner (i.e., CLEP Subject

or General Examinations, Advanced Placement, or Departmental Examinations), will have these evaluated by the Office of Admissions, through the Office of Academic Affairs, will be granted for Departmental Examinations and CLEP Examinations if the course(s) are listed on the student's official transcript with a passing grade or the equivalent, and are within the policies for credit at the University of New Orleans. Advanced placement credit will be given in areas in which UNO normally grants such credit as shown elsewhere in this Catalog.

Transfer students who have question(s) concerning their transfer evaluation may request a review of the evaluation by their academic dean, their department head, the Director of Admissions, and/or the head(s) of the department in which the course(s) are offered at UNO. Requests must be made in writing to the Director of Admissions and must list the specific course(s) in question. The student may be required to furnish course descriptions and may be required to appear before the appropriate college or department personnel.

In order to facilitate a more efficient transfer of courses among public colleges and universities, the Louisiana Board of Regents has established a Master Course Articulation Matrix. This matrix indicates transfer equivalences of courses among Louisiana's public college and universities, and may be accessed through the Board of Regents' webpage at <http://regents.la.gov>. It remains, however, the prerogative of the receiving institution as to whether a course will count toward a particular Major, whether a particular grade is required, or whether the course will satisfy general education requirements. Students should therefore always contact UNO prior to transferring courses.

### Credit from other institutions – Limitations on Community or Junior Colleges

All academic hours earned at a community or junior college will be posted on the UNO transcript upon the student's transfer. However, the maximum number of hours transferable from a community or junior college for degree credit is sixty. No credit earned at a community or junior college may be used for credit at the 3000 or 4000 course level.

### Cross-Enrollment Agreements between UNO and Southern University in New Orleans, Delgado Community College, and Elaine P. Nunez Community College

Through separate formal agreements between UNO and Southern University in New Orleans and Delgado and Elaine P. Nunez Community Colleges, UNO students may register for a limited number of classes at each of these institutions when they register at UNO. Students should contact the Office of their College Dean or the University Registrar for information regarding the procedures to be followed in this process.

### Cumulative Grade Point Average

A student's cumulative grade-point average (CGPA) is calculated by dividing the total number of quality points earned by the total number of semester hours attempted. (See Undergraduate Grading System in this chapter for the quality points assigned to each final grade.)

### Declaring Majors

Students must declare an academic Major by the time they earn 45 credit hours. Transfer students must declare an academic Major within one semester of enrolling in the University.

### Declaring Minors, Concentrations and Options

Students who choose to pursue a Minor, Concentration or Option must declare the Minor, Concentration or Option at least one academic semester prior to the semester in which they intend to graduate.

### Degree Audit

The University of New Orleans offers a comprehensive Degree Audit through WebStar (accessed through the student's Advising Center). The Degree Audit is an 'electronic map' of all the Programs of Study offered at the University of New Orleans. The Degree Audit enables a student to not only view the courses required to earn their particular degree, it also applies those courses earned toward the degree - ultimately allowing the student to view their academic progress in 'real time' in an electronic format. Additionally, a student can perform a 'What-if' analysis using the Degree Audit to determine how those credits they previously earned might be utilized in a different Program of Study, should they choose to change their Major. Students are encouraged to use this self-advising tool as it will always be used as the university's official certification toward fulfillment of graduation requirements.

## Degree Requirements - General

In accordance with University of Louisiana System policy (Chapter II, Section VIII, Baccalaureate Degrees Requirements), The University of New Orleans organizes undergraduate degree requirements into three categories: 1) General Education (Core) requirements, 2) Other requirements and 3) Major requirements.

- General Education courses are mandated by the Board of Regents and should generally be taken at the Freshman and Sophomore level. Specific requirements related to general education courses are explained in more detail within the Catalog.
- Other coursework requirements vary according to the degree pursued. In general, courses in this category include college-specific requirements for the Program of Study, program-specific requirements for the Program of Study, and courses that serve as a prerequisite for other courses included in the major requirements of the selected program of study.
- Major requirements comprise a minimum of 25% of the total credit hours required to complete the Program of Study although each Program of Study determines the number of credit hours required in this category. This category of degree requirements consist of a specified group of courses in a particular discipline(s) or field(s). A minimum of 50% of the courses included in the Major requirements must be at the 3000+ level. A minimum of 50% of the credit hours used to satisfy the Major requirements must be taken at The University of New Orleans.

Major requirements may include a concentration or option depending on the specific Program of Study addressed. A Concentration is an alternative track of courses within a Major or Option, accounting for at least 30% of the Major requirements. An Option is an alternative track of courses within a Major, accounting for 50% to 80% of the Major requirements. Specific requirements for the concentrations and/or options offered at The University of New Orleans may be found in the degree requirements explanation for a specific Major.

Students pursuing a Major cannot earn a Minor in the same field simultaneously or subsequent to the Major, if it has been previously earned. Similarly, students pursuing a Minor cannot earn a Major in the same field simultaneously or subsequent to the Minor, if it has been previously earned.

Some degree Programs of Study include additional requirements such as satisfactory performance on one or more assessments, licensing examination scores, completion of an internship or capstone experience, or other elements included in the Program. Specific requirements may be found in the appropriate section of the catalog describing a specific Major.

## Distance Learning

Distance learning is a formal educational process in which the majority of instruction (interaction between instructors and students) occurs when students and instructors are not in the same physical location. Distance learning courses may employ the internet, broadcast, audio, video, or recordings. Instruction may be asynchronous or synchronous.

Asynchronous learning uses online learning resources to facilitate instruction outside the constraints of time and location, meaning students may take courses to accommodate their busy schedules. Asynchronous course content at UNO is available through Moodle, an open source course management system (CMS). Online degree programs and courses are generally asynchronous.

Synchronous learning refers to instruction that occurs at a designated class time through synchronous tools such as Adobe Connect, WebEx and Skype. Synchronous instruction requires students to attend classes on a regular schedule.

Modality	Course Description	Course Section Number
Asynchronous	Fully online courses that do not require synchronous interaction between instructors and students.	476-480
Hybrid	Half of instruction via distance (at minimum), but may require some synchronous or physical interaction within courses.	495-499
Synchronous	Compressed video courses	410-475
	Web conference courses	486-490

	Second Life courses on UNO virtual campus	481-485
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To protect the integrity of its educational courses and programs, the university takes measures to ensure that a student awarded academic credit is the same student who successfully completes course requirements. Students enrolled in any distance learning course may be required to participate in authentication methods such as a) secure login and pass code, b) proctored examinations, or c) new or other technologies and practices that are effective in verifying student identification. There may be additional charges associated with proctored examinations or other verification processes. If applicable, this authentication requirement and associated fees will be clearly stated on the course syllabus.

To learn more about online learning at UNO or to view lists of online degree programs and courses, please visit <http://www.uno.edu/globaluno/online-learning.aspx>.

## Eligibility to Represent the University

No student will be permitted to represent the University unless he/she is classified as a full-time student. Students may participate as members, substitutes, or officers so long as they are enrolled for at least six semester hours unless otherwise indicated by a particular unit or organization. Organizations may include dramatic, literary, musical or other types including Student Government.

## Enrollment Classification - Full-time Students

For undergraduate students:

- Fall and Spring - enrolled for twelve or more hours in total; special permission required to enroll in more than 19 hours\*
- Session A or Session B - enrolled for six or more hours in total; special permission required to enroll in more than 6 hours\*
- Summer – enrolled in six or more hours in total; special permission required to enroll in more than 12 hours\*

\* See Maximum and Minimum Work later in this chapter

For graduate students:

- Fall and Spring – enrolled for nine or more hours in total\*
- Summer – enrolled in six or more hours in total\*

\*See Graduate Section of the Catalog for additional information.

A candidate for graduation may request to be classified as a full-time student in the semester or summer session during which he/she is scheduled to complete the requirements for a degree, even though the number of hours scheduled is less than that ordinarily required for classification as a full-time student. A student thus classified full-time is required to pay the fees appropriate to the full-time classification.

## Enrollment Classification - Part-time Students

Students who do not qualify as full-time students as defined in the section above are part-time students. A part-time student is subject to all University rules concerning registration, attendance, scholarship, and conduct. Students are considered half-time if they are enrolled for at least 6 credit hours but no more than 11 credit hours. Please consult with the Office of Enrollment Services to determine the impact of part-time status on Financial Aid awards.

## Family Educational Rights and Privacy Act

The University of New Orleans complies with all guidelines as established in the Family Educational Rights and Privacy Act of 1974 (Public Law 93-380). This Act was designed to protect the privacy of educational records, to establish the right of students to inspect and review their educational records, and to provide guidelines for the correction of inaccurate or misleading data through informal or formal hearings. Students have the right to file

complaints with the Family Policy Compliance Office, U.S. Department of Education concerning alleged failures by the institution to comply with the Act.

University policy explains in detail the procedures to be used by the institution for compliance with the provisions of the Act. Copies of the policy can be found in the following offices: Admissions, President's Office, Academic Affairs, Office of Business Affairs, Student Affairs, Student Personnel Records, each college/school/division/dean's office, each academic department office, and on the web at <http://academicaffairs.uno.edu/>.

Questions concerning the Family Educational Rights and Privacy Act may be referred to the University Registrar.

## Final Examinations

Final examinations are required and shall be held at the end of each semester/term or summer session in accordance with the schedule issued by the Office of Academic Affairs. When final examinations are inappropriate because of the nature of the course, exceptions to this requirement may be made upon approval of the appropriate Dean and the Office of Academic Affairs.

## Final Exam - Conflict Resolution

When a student is scheduled for three or more final examinations in one day, the student may request rescheduling of one of the examinations through his/her Dean. If one of the exams is a group final exam, then attempts to reschedule non-group exams should be made first. The Dean, Department Head, and faculty member will make every effort to accommodate the student when such a request is made. Final examinations for classes meeting at times other than those posted by The Office of the University Registrar will be scheduled during the week of finals at a time agreed upon by the faculty member and students. The Office of the University Registrar in conjunction with the Office of Academic Affairs are the final authority should agreements not be reached at the departmental level.

## General Education (Core) - Assessment

Educational assessment is the systematic collection, analysis, and use of data related to academic programs. The General Education assessment package is designed to measure the extent to which students have attained those competencies identified by the university. Data collected will be used for program improvement purposes rather than determination of individual student progression through a program of study. Participation in assessment activities related to general education goals is a requirement for all undergraduate students.

## General Education (Core) Requirements - Overview

The General Education (Core) curriculum at The University of New Orleans is a set of course requirements designed to expose students to a wide range of academic disciplines. Through General Education, students learn basic content and methodology of fundamental knowledge areas including humanities and fine arts, social and behavioral sciences, as well as natural sciences and mathematics. This broad educational experience is intended to encourage intellectual inquiry and provide a solid foundation for all undergraduate students.

The General Education (Core) curriculum adheres to policies and requirements of the University of Louisiana System, Louisiana Board of Regents, and Southern Association of Colleges and Schools – Commission on Colleges.

To become eligible for a baccalaureate degree from The University of New Orleans, a student must fulfill the following General Education requirements mandated by the Louisiana Board of Regents and the University of Louisiana System:

1. Complete the following courses:
  - a. English Composition - 6 hours. English 1157 and 1158/1159 or their equivalent. Completion of 1158 or 1159 with a grade of C or better.
  - b. Mathematics/Analytical Reasoning - 6 hours.
  - c. Science Natural/Life/Physical Sciences - 9 hours, including a six hour sequence in one science and an additional three hour course in another. One of the sciences must be Biological Sciences and the other one must be Chemistry, Earth and Environmental Sciences, or Physics.
  - d. Humanities - 9 hours to include:
    - i. 3 hours in Literature\*.

- ii. 6 additional hours to be taken from the Departments of Film and Theater; English; Foreign Languages; History; Philosophy; Women's and Gender Studies\*\*.
  - e. Social/Behavioral Sciences\*\*\* - 6 hours from Anthropology, Economics, Geography, Political Science, Psychology, Sociology and/or Urban Studies.
  - f. Fine Arts\*\*\*\* - 3 hours to be taken from the Fine Arts, Music, or theatre/dance/film-related courses in Film and Theater.
2. Earn a minimum of 120 hours including at least 25 percent of the credit hours for the degree through instruction offered by the University\*\*\*\*\*.
  3. Achieve a Grade Point Average of 2.0 or better in:
    - all work attempted (the Cumulative Grade Point Average or CGPA),
    - all work taken at UNO (the UNO CGPA or UGPA), and,
    - the major subject (the Degree Grade Point Average or DGPA).

Since each curriculum has requirements in addition to those listed above, students should consult the appropriate section of this Catalog to determine such additional requirements and restrictions as may apply to the particular degree program.

\*Writing, linguistics, and grammar studies are not considered literature.

\*\*Transfer courses in religious studies may be used to fulfill Humanities requirement(s).

\*\*\*Other subjects under the Social Sciences in Area of Concentration may not count for this General Degree Requirement.

\*\*\*\*Transfer courses in architecture, dance, interior design or landscape architecture may be used to meet the Arts requirement.

\*\*\*\*\*No more than 60 hours required for the completion of a degree program may be transferred from a junior college.

A current menu of approved courses that satisfy general education requirements may be found at <http://www.uno.edu/general-education/course-menu.aspx>. There are some program-specific exceptions to this list as noted in the degree requirements of the program pursued (see appropriate section of the Catalog). A course identified as an exception may only be applied to that specific program of study. Students should consult an advisor prior to enrolling to determine whether a course satisfies the general education requirements for their particular academic degree program. See the Satisfaction of General Education Degree Requirement table for specific student scenarios.

## General Education (Core) Goals - Overview

The University of New Orleans provides its undergraduate students equality of access to educational opportunities and seeks to nurture in them scholarship, academic excellence, the ability to work productively with others, and leadership for citizenship in a modern environment. The General Degree Requirements established at the founding of UNO and most recently modified by a 2010 mandate of the Board of Regents further these goals by providing a common general education for all who complete an Undergraduate Program of Study.

All students completing a baccalaureate degree attain appropriate competencies identified by the university, as follows:

1. Communication - Students communicate effectively, both orally and in writing.
2. Collaboration - Students participate effectively in collaborative activities and cooperative learning.
3. Critical Thinking - Students evaluate claims, arguments, evidence, and hypotheses.
4. Contextual Analysis - Students analyze contemporary issues within the context of diverse disciplinary perspectives.
5. Quantitative Reasoning - Students demonstrate the ability to use quantitative analysis to solve problems.
6. Information Literacy - Students demonstrate effective use of technology to attain credible information for a

specific purpose.

## General Education (Core) Student Learning Outcomes

All students completing a baccalaureate degree achieve the following student learning outcomes identified by the university:

- A. Read with comprehension.
- B. Write effectively using supportive, synthesized evidence and document sources.
- C. Speak cogently in presenting information.
- D. Listen effectively.
- E. Actively participate in structured, recursive processes where two or more students work together toward a common goal.
- F. Share knowledge, adjust to unforeseen circumstances, make decisions, and build consensus.
- G. Accurately interpret evidence, thoughtfully evaluate alternative points of view, draw judicious conclusions, justify results, and explain reasoning.
- H. Engage in skepticism, judgment, free thinking, abstract reasoning, questioning and understanding.
  - I. Recognize and appreciate cultural diversity so as to participate intelligently and actively in society.
  - J. Evaluate issues within multicultural, global and international contexts.
- K. Develop a personal value system while retaining tolerance for others.
- L. Apply mathematical concepts and skills to solve problems and communicate solutions.
- M. Articulate and advocate appropriate applications of quantitative reasoning in various settings.
- N. Understand the scientific method.
- O. Determine extent of information required, access information efficiently, evaluate information and its sources critically.
- P. Use information appropriately to accomplish a specific purpose.
- Q. Understand the economic, legal, ethical and social issues surrounding use of information.

## Grade Reports

The University reports grades at mid-semester and at the end of each semester for all students. Only the grades reported at the end of the semester (final grades) are used in the computation of the student's grade-point averages. Mid-semester grades are simply an indication of the student's progress and are not calculated in the summer session.

The University does not mail final grade reports. Students may access their grades through WebStar.

## Graduation Requirements - Double Major in a Single Degree Designation

Students who wish to earn two Majors simultaneously in the same college at UNO may do so, provided they:

1. Complete all requirements for each major,
2. Meet all quality point average and grade requirements applicable to each major,
3. Complete requirements for both majors before receiving the baccalaureate degree,
4. Meet the residency requirement for each major (typically, the last 30 hours or 25% of earned credit hours must be taken at UNO – students should check with their College for specific requirements), and,
5. The student cannot declare a Minor in one of the Major curriculum areas.

(Any student who receives a baccalaureate degree after completing the requirements for only one major must comply with the guidelines for a second baccalaureate degree.) Students wishing to double major in subjects in different colleges may do so provided both majors lead to the same degree designation (e.g., Bachelor of Arts, Bachelor of Science, etc.). In these cases, however, students should check with each college to decide whether it would be best to pursue the dual major or the dual degree.

## Graduation Requirements - Earning two degrees simultaneously at UNO

Students who wish to earn two baccalaureate degrees at UNO simultaneously may do so, provided the Majors

have different degree designations (e.g., Bachelor of Arts, Bachelor of Science, etc.) and they:

1. Complete all requirements for both degrees,
2. Meet all quality point average and grade requirements applicable to both degrees,
3. Develop degree plans with both colleges if the two degrees being sought are in different colleges,
4. Meet the residency requirement for each degree major (typically, the last 30 or 25% of the earned credit hours must be taken at UNO – students should check with their College for specific requirements), and,
5. Students cannot declare a Minor in the area in which the other baccalaureate is being earned.

(Any student who receives a baccalaureate degree after completing the requirements for only one Major must comply with the guidelines for a second baccalaureate degree.)

### Graduation Requirements - General

A student must meet all the requirements for a degree in one Catalog. A student is assigned their Catalog (by year) corresponding to their initial enrollment to the University. A student who breaks enrollment (either voluntary or by compulsion) is assigned a new Catalog (by year) upon re-enrollment to the University. A student may elect to change their Program of Study/Major at any time during their academic tenure; the Catalog (by year) in force at the time of the Change of Program/Major will be the Catalog (by year) used to evaluate the student for satisfactory academic progress toward degree and/or graduation requirements. Students may not change their Major, Minor, Concentration or Option in the term of their graduation.

There are several requirements which must be completed by all students prior to graduation.

The student must:

1. Complete all academic requirements for a degree based on their Catalog. This includes the General Education requirements, Other requirements, and Major requirements of the particular Program of Study in which the student is enrolled;
2. Attain a minimum Cumulative GPA of 2.0 (note: some Programs of Study require a higher minimum Cumulative GPA or a minimum GPA for the Major requirements);
3. Ascertain, through the college of the Major, that his/her academic record is accurate and complete. This should be done not later than one semester prior to graduation;
4. Submit an application to the Registrar's Office for the degree during the registration period of the last semester in residence. The student will be required to make this formal application and state the exact name to appear on the diploma;
5. Pay the diploma fee. A student who has previously paid a diploma fee, but who failed to graduate at the time expected, must re-apply and pay the diploma fee again;
6. Satisfy all assessment requirements associated with the student's Program of Study;
7. Satisfy all financial indebtedness to the University cleared prior to graduation; and,
8. Complete an exit interview for Financial Aid, if applicable.

A student who does not follow and complete the above requirements and procedures will not be allowed to graduate.

### Graduation Requirements - Residency

For all UNO students, the last 25 percent (typically 30 hours) of all coursework must be taken in residence while enrolled in the College from which the degree is to be earned. A transfer student or a student who enters with advanced standing from another university and becomes a candidate for a bachelor's degree at UNO must fulfill a minimum residence requirement of two semesters (or four summer sessions) at UNO and must earn at least 25 percent of the credit hours required for the degree through instruction offered by the University. A minimum of 50% of the courses included in the Major requirements in a UNO Program of Study must be taken at The University of New Orleans. No credit earned at a community or junior college may be used for credit at the 3000 or 4000 course level. Additional restrictions may apply. Students should discuss their Residency Requirements with their Advisor or college Dean's Office.

### Graduation Requirements - Second or Subsequent Baccalaureate Degrees

Students who hold a baccalaureate degree from The University of New Orleans or from a regionally accredited

institution other than UNO may earn a second baccalaureate degree by completing thirty semester hours at UNO that are in addition to the requirements for the first degree and by meeting all other requirements for the second degree. Students may not pursue a degree in a Program of Study in which they have already completed or are currently pursuing a Minor.

## Graduation Requirements - Substitutions and Waivers of Degree Requirements

A substitution is defined as a course that is outside of the prescribed curricula that is used to substitute for a course that is within the prescribed curricula. At The University of New Orleans, no more than five (5) courses may be substituted in a prescribed curriculum.

A waiver is defined as an exception to a required degree component. Each curriculum will be different with some curricula requiring external benchmarks such as meeting a minimum score on a required test and other curricula requiring a course or series of courses to satisfy a particular degree component and even other curricula requiring additional components. Students are encouraged to discuss any deviation of prescribed coursework with their advisor. Waivers of degree requirements must be approved by both the Dean of the College as well as the Office of Academic Affairs.

## Honors - College Honors/Dean's List

College honors are awarded each semester with the publication of the Dean's List for each division, college, or school. To be included on the Dean's List, a student must have earned at least a 3.5 grade-point average for that semester (Term GPA) while attempting a full-time, in-residence schedule.

## Honors - Departmental Honors

Some subject areas offer programs which lead to the bachelor's degree with honors in the particular subject. Requirements include a 3.25 grade-point average in all coursework attempted and a 3.5 grade-point average in all courses in the Major; completion of specified courses in the Major; and completion of a Senior Honors Thesis. Students wishing to earn departmental honors should contact the Director of the University Honors Program.

## Honors - General

Baccalaureate degrees are awarded with honors on the basis of two criteria, the curriculum undertaken and grade-point average.

## Honors - Honors Degrees

The baccalaureate degree is awarded with honors to students who earn a minimum of 60 credit hours at UNO and who maintain a high grade point average. To be eligible for academic honors students must have a grade point average, including course grades eliminated through suspended grades and grades deleted by academic renewal, that fall within the ranges show below - both for courses taken at UNO and for all courses.

Honor	Grade Point Average
Summa Cum Laude	3.90 to 4.00
Magna Cum Laude	3.700 to 3.899
Cum Laude	3.500 to 3.699

Graduation with honors applies to all undergraduate degrees within the limitations set by the policy.

## Honors – University Honors/President's List

University honors are awarded each semester with the publication of the President's List. To be included on the President's List, a student must have earned a 4.0 grade-point average for that semester (Term GPA) while attempting a full-time, in-residence schedule.

## Honors - University Honors

This distinction is earned by students who are admitted to and complete the requirements of the University Honors Program. Through special sections of regular courses, specially organized interdisciplinary courses, and independent study and research, members of the Honors Program acquire an undergraduate education that

testifies to their superior academic ability and the extensive educational resources of UNO.

To graduate with University Honors, students in the Honors Program must: earn 30 semester hours of honors credit; concurrently enroll in and complete Arts and Sciences 1119 and either English 1159 or English 2151; complete a Senior Honors Thesis; and attain a 3.25 grade-point average in all coursework attempted and a 3.5 grade-point average in all courses in the Major. Students who wish to participate in the Honors Program should contact the Director of the University Honors Program.

### Lower Division Courses

Lower Division Courses are those courses at UNO taught primarily at the Freshman and Sophomore level. These courses are generally identified in the course numbering rubric as '1000' or '2000' level.

### Maximum and Minimum Work

The normal student schedule in a regular semester should range between 12 and 18 hours. The normal freshman schedule in a regular semester should range between 12 and 15 hours. Short sessions, Session A or Session B in any given full term (Fall, Spring, or Summer), contain courses offered on compressed timeframe and students should be aware there is an advanced pace in a compressed format. Students are encouraged to consult their academic advisor to determine a course load that best meets their academic preparation. Students with an at-risk Cumulative GPA may be advised to limit their academic load to fewer than 15 hours. Students on Academic Probation are limited to enrolling in 13 hours in Fall or Spring semester and seven hours in Summer.

Students may enroll for more than 19 semester hours of courses only with permission of their Dean and provided they have maintained an overall 3.0 (B) Cumulative GPA and have not fallen below a grade of C in any subject during the preceding semester; but in no case will any student be permitted to register for more than 21 semester hours of degree credit. Students who register for fewer than 12 semester hours or drop below 12 semester hours of work (six in the summer session) will not be considered full-time.

In the Summer term, six semester hours is the minimum full-time load, and the maximum load permitted is 12 semester hours. In the Session A or Session B, students may enroll in up to 6 hours.

Students will not be allowed to enroll in more than 21 hours total (Including Regular and Compressed Sessions)

### Maximum time towards degree on Catalog

The maximal period of time for which the provisions of any Catalog may be considered valid is seven years. Students who began a degree program seven or more years prior to the date of their anticipated graduation must consult their academic dean to determine which Catalog must be followed.

### Military Service Mobilization/Activation

The University of New Orleans complies with Board of Regents and University of Louisiana Policy (S-II.XXII.1a) regarding the mobilization of national guard, reservists, or other military personnel who are attending classes. Academic implications and refund schedules regarding tuition and fees are discussed in these policies.

The University is committed to supporting its students qualifying for these services. Students called to active duty or mobilized for any reason should contact the Office of Veteran's Affairs (even if they aren't receiving VA benefits) for information and further instruction.

### Minors

A Minor is that part of a Degree program which consists of a specified group of courses in a particular discipline or field, consisting usually of 15% or more of total hours required in the Program of Study. A minimum of 50% of the courses included in the minor requirements must be at the 3000+ level. A minimum of 50% of the credit hours used to satisfy the Minor requirements must be taken at The University of New Orleans.

### Registration

No one may register in any semester, summer session, or intersession after the official registration period indicated in the University calendar. The University does not guarantee that during a given semester a student will be able to schedule every class which he/she might be required to take or wish to enroll. No student will be permitted to remain in class unless the instructor has received from the University Registrar evidence of proper registration.

## Registration - Adding Courses for Credit

Courses may be "added" for credit only during Registration or Late Registration for a given term. Students are required to monitor the official University Calendar – traditionally found in the Office of the University Registrar (<http://registrar.uno.edu>) – regarding scheduling dates and their particular access to registration via their WebSTAR portal. Students should be aware there are differing dates and associated fees for registration actions (adding vs. dropping vs. auditing courses). Please consult The Bulletin for charges associated with dropping and adding courses.

## Registration - Auditing Classes

Regularly enrolled students at UNO may be admitted to classes as auditors by obtaining written permission from the Chair of the department in which the course is taught and the Dean of the College in which they are enrolled. Others must obtain official admission to the University in addition to obtaining permission, as indicated. The fee for auditing a course is the same as for enrolling for credit. Auditing fees are not refundable.

Auditors will not receive university credit and will not be permitted to take an advanced standing examination on audited work. Upon certification by the faculty member in charge of the course that the student did not actually attend, notation that the student audited the course will be stricken from the record without right to a refund of fees.

Students may not change from audit to credit after the last day to add a course. With permission of their Dean, they may change from credit to audit within the first 15 class days of the semester (7 class days in the summer).

## Registration - Changing Sections

Section changes, if permitted, are subject to the same time limitations as the adding or dropping of courses. A section change requires dropping and adding a course and therefore falls under the same fee structure. Please consult The Bulletin for charges associated with dropping and adding courses.

## Registration - Dropping Courses

Courses may be "dropped" during Registration or Late Registration for a given term. Students are required to monitor the official University Calendar – traditionally found in the Office of the University Registrar (<http://www.uno.edu/registrar/>) – regarding scheduling dates and their particular access to registration via their WebSTAR portal. Students should be aware there are differing dates and associated fees for registration actions (adding vs. dropping vs. auditing courses). Please consult The Bulletin for charges associated with dropping and adding courses.

Students will not be allowed to drop a course after the published "last date to drop a course". Students who fail to drop courses by the published final date for such action will be retained on the class rolls even though they may be absent for the remainder of the semester.

A student may be dropped, at the discretion of the Dean of the College, from any course for which the student is ineligible.

Failure to attend class does not constitute a course drop. Withdrawn courses reduce a student's enrolled hours, but not the student's financial obligation (see section on Withdrawal from the University).

## Requirements for All First-Time Full-Time Freshman

All first-time freshmen will be required to successfully complete UNIV 1001 with at least a grade of C during their first year of enrollment.

All students having earned less than 30 credit hours are required to be advised by their Academic Advisor in the Privateer Enrollment Center. Students are encouraged to meet with their college Advisor at their earliest convenience.

## Residency

Please see [Graduation Requirements – Residency](#).

## Scholastic Amnesty/Renewal

The purpose of academic renewal is to provide an opportunity for undergraduate students who have not been enrolled in a college or university for three consecutive calendar years to have any academic record earned prior to the three year period disregarded for the purpose of admission or readmission to UNO. While the prior record remains a part of the student's overall academic record, none of it carries forward as part of the degree program. Academic Renewal may be offered and awarded only once and is only applicable to students who enroll at UNO.

The following conditions will apply when a student accepts academic renewal:

1. All college enrollments will be listed as part of the student's UNO academic record.
2. No work taken prior to the three year period will be counted in the student's hours earned or grade point average at UNO.
3. All semesters for which academic renewal is accepted will have the notation "Academic Renewal Declared on Credits Attempted."
4. Credits earned prior to the date that academic renewal is accepted will not be counted to satisfy UNO graduation requirements.
5. Grade point averages computed to determine eligibility for degrees with honors, for membership in honorary or professional societies, or for UNO based scholarships will be based on all college work attempted including the work on which the student has declared academic renewal.

The process is as follows:

1. When a student applies for re-admission who has been out of school for more than three years and accrued less than 2.25 grade point average, their application will be referred to the student's major academic college by their admissions counselor.
2. The college office will then contact the student to set up an interview to discuss academic renewal and the implications of accepting or rejecting it.
3. Once the student has made a decision and the Academic Renewal Form has been signed, the college office will notify the admissions counselor of the two parts of the decision. The renewal decision will be one of the following: accepts renewal, declines renewal, or renewal not offered. The admission decision will be one of the following: admit student, admit student on probation, admit student as an exception, or deny student. Please note that a student recommended for an exception must then be approved by the Director of Admissions. Also, in cases in which students are admitted without renewal and have below a 2.0, they will be admitted on Academic Probation.
4. If the student accepts Academic Renewal, the admissions counselor will then notify the Offices of the Registrar and Financial Aid. The Coordinator for Records Management in the Office of the Registrar will make any changes on a re-entry student's record after the student has enrolled. The admissions counselor will post the amnesty notations for any transfer students. If the student is receiving financial aid, the Coordinator of Student Loans in the Office of Financial Aid will note the acceptance of renewal in the student's file as all prior work will be used to compute a student's Satisfactory Academic Progress.

All students who have been out of school for more than three years but have above a 2.25 that wish to declare renewal must contact the Office of Admissions for review. Students have one year from the first semester they are re-admitted to request this review. The student will remain subject to the university policies on Academic Probation, Suspension, and Dismissal.

Students who accept Academic Renewal may still acquire credit by taking and passing advanced standing examinations, placement tests, and credit examinations as long as the student is not within completion of the last 30 hours of the degree requirements.

Students should be aware that Academic Renewal is an internal UNO policy. Most other schools, including graduate and professional schools, will use all college work attempted in determining whether an applicant is eligible for admission.

### Statute of Limitations

In the absence of any designated time limits in documents on policies or procedures, the University imposes a time limit of one year for the initiation of any request for an exception to its rules or regulations.

### Student Handbook

The University of New Orleans Student Handbook is an official student policy. The UNO Student Handbook describes what is expected of a student with respect to behavior and conduct in the UNO community and outlines the procedures to be followed when these expectations are not met. The Student Handbook includes the Code of

Student Conduct as well as other rules, regulations and policies governing student life. Please refer to the following site:

<http://www.uno.edu/student-affairs-enrollment-management/student-policies/index.aspx>

## Student Identification Card

The University Computing Center issues to each student a permanent identification card, including a photograph, and a Privateer number. This card will be used for the entire duration of the student's enrollment at the University. The card is required for borrowing library books, cashing personal checks, admission to athletic and social events, selling used textbooks, Testing Services, meal plans, and other official purposes. Fraudulent use of the ID card will result in disciplinary action. The card is issued to the individual student and must not be loaned to another person for any reason. Any University official having just cause has the right to request that a student show the identification card for identification purposes. Upon such a request by a University official, the student is required to comply.

## Term/Semester Grade Point Average

A student's Semester/Term grade-point average (TGPA) is calculated by dividing the total number of quality points earned in the semester by the total number of hours attempted in the semester. (See Overview of the Undergraduate Grading System in this chapter for the quality points assigned to each final grade.)

## Transcript of Record

The official permanent academic records for all UNO students are in the custody of the Office of the Registrar. Release of these records is protected by the "Family Educational Rights and Privacy Act." Transcripts of the academic record may be secured by the individual personally or will be released on the student's written authorization. Transcripts cannot be issued until the student or former student has settled all financial obligations to the University and has submitted all required transcripts from other colleges attended. A minimal fee will be charged for each copy of the transcript. Transcript processing requires a minimum of three working days. Official transcripts can only be released to a third party.

## Undergraduate Grading System - General

The following is a general overview of the Undergraduate Grading System

- A The grade of A has a value of four quality points per semester hour and is given for work of the highest degree of excellence.
- B The grade of B has a value of three quality points per semester hour and is given for work of a high degree of excellence.
- C The grade of C has a value of two quality points per semester hour and is given for satisfactory work.
- D The grade of D has a value of one quality point per semester hour and is given for passing but marginal work.
- F The grade of F does not earn quality points. This grade is given for work failed.
- P The grade of P means passing and is assigned for satisfactory work taken by advanced standing examination, for satisfactory completion of certain noncredit courses, and for satisfactory completion of courses taken on a pass-fail basis. This grade does not carry quality points and is not used in computing the official grade average of a student.
- U The grade of U means unsatisfactory and is assigned for unsatisfactory completion of courses taken on a pass-fail basis. Credit hours for which a grade of U is recorded are not used in calculating the student's average.
- W The grade of W means withdrawal. This grade is earned when a student drops a course or resigns from the University during the "W grade" period. Credit hours for which a grade of W is recorded are not used in calculating the student's Cumulative Grade Point Average.
- I The grade of I means incomplete and is given for work of passing quality but which, because of circumstances beyond the student's control, is not complete. The issuance of the grade of I is at the discretion of

the faculty member teaching the course. For all graduate and undergraduate students, a grade of I becomes a grade of F if it is not converted before the deadline for adding courses for credit (as printed in the Important Dates Calendar) of the next regular semester including summer semester.

## Undergraduate Grading System - Suspension of a Grade

Under certain conditions, when a course has been repeated, UNO permits a student to request that a grade of D or F in a course be suspended and only the subsequent grade be used in calculating the grade point average.

Some of the limitations are:

1. The course to be suspended is numbered below 3000;
2. The course to be suspended has not before been suspended;
3. The total number of hours suspended to date, including the hours to be suspended, does not exceed nine hours;
4. The repetition of the course to be suspended occurred before the student reached junior standing;
5. The student does not complete, prior to repeating the course, two or more higher-numbered courses for which the course is a prerequisite;
6. The student is eligible to enroll at UNO; and,
7. Both enrollments in the course are at UNO.

The official academic record (transcript) will indicate this suspension and will show in the academic summary a grade-point average calculated on the basis of the total number of hours attempted.

Class rankings, graduation honors, and eligibility for UNO academic honors programs are determined on the basis of the grade-point average for all credits attempted including those suspended.

The suspension of credit is an internal policy of The University of New Orleans and may not be recognized by other universities.

## University Closures

If the University must close due to unexpected circumstances, faculty and students may have to make up missed class and laboratory time. In some circumstances resulting in closure of the University, the Provost will determine how classes will be made up. In other circumstances, the methods for making up missed classes and laboratories will be with extra assignments and readings, additional days of class or laboratory, additional class time, or in other manners to be determined.

## University Discipline

The University of New Orleans expects of its students a high degree of honor in all phases of college life. It is the responsibility of all students to familiarize themselves with the rules and regulations governing student conduct as published whether in print or on the web, in the UNO Student Handbook and other official publications.

The authority structure for administering the judicial code is the President, through the Vice President for Student Affairs to the Director of Student Advocacy. Please refer to the section on Judicial and Student Assistance in this catalog and to the UNO Student Handbook for more details.

## Upper Division Courses

Upper Division Courses are those courses at UNO taught primarily at the Junior and Senior level. These courses are generally identified in the course numbering rubric as '3000' or '4000' level.

## Withdrawal from the University (Resignation)

Students are responsible for initiating action to resign from the University (withdraw from all courses) on or before the last day to resign as indicated in the current Bulletin. After that date a student may not resign from the University. Students who fail to resign by the published final date for such action will be retained on the class rolls even though they may be absent for the remainder of the semester and be graded as if they were in attendance.

Failure to attend classes does not constitute a resignation. Resignation eliminates a student's enrolled hours, but not the student's financial obligations.

Caution: Withdrawing from courses may have an adverse effect on financial aid, scholarships, loan deferments, athletic eligibility, health insurance, veteran's benefits, degree requirements, or other areas. Students considering course drops or resignation should first check with their advisor, College, and Enrollment Services to determine if this is really their best option.



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# College of Business Administration

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## Business Administration

### Student Learning Outcomes

#### College of Business Administration

#### Bachelor of Science in Business Administration

1. Students will possess quantitative and technological skills and competencies enabling them to analyze and interpret business data and prepare them for the rigors of today's business world
2. Students will possess the competencies that will prepare them for the rigors of today's business world
3. Students will be able to communicate in written form in such a way as to demonstrate their ability to present information clearly, logically and critically

### Curriculum in Business Administration

#### Bachelor of Science in Business Administration

#### General Education Requirements

Course Name/ #	Credit Hours	Course Name/#	Credit Hours
English		BIOS or same as other Physical Science	3
ENGL 1157	3	Humanities	
ENGL 1158 or 1159 <sup>1</sup>	3	(FTA 2650, FTA 2660, ENGL, FORL, HIST, PHIL, WGS)	6
Mathematics		ENGL Literature	3
MATH 1115 or 1125 or higher	3	Social Sciences	
MATH 2785 or 2314	3	ECON 1203	3
Science		Social Science Elective (ANTH, PSYC or SOC) <sup>2</sup>	3
BIOS	3	Arts (Fine Arts, Music, FTA except 2650, 2660)	3
Other Physical Science	3		
		Total	39

Other Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
ACCT 2100, 2130	6	MANG 4480	3
BA 2780, 3010	6	MKT 3501	3
ECON 1204, FIN 3300	6	QMBE 2786, 2787	4
MANG 2790, 3401	6	General Electives	11
MANG 3402	3	Business Elective	3
		Total	51

Course Requirements for Major			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
FIN 3302	3	BA 3080, 3021 or MKT 3526	3
MANG 3467	3	FIN 2302, 2335, 3301, 3303, 3321, FIN 4310, or 4311	3
MANG 3778 or ACCT 3141	3	ECON 4306, 4261, FIN 4306, HRT 3150, MANG 4446, or MKT 4546	3
MKT 3505	3	HRT 2000, HRT 3017, or MKT 4535	3
MKT 3515, 3530, 3540, or 3580	3	MANG 4468, 4469, 4470, 4710, 4730, or ACCT 3141 or 4142	3
		Total	30

Total Credit Hours Required	Credit Hours
	120

1. "C" or better required
2. Check General Education Courses to confirm what courses fulfill this requirement

#### Recommended Four-Year Plan of Study

College of Business Administration  
Bachelor of Science in Business Administration

Four Year Plan of Study			
First Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ENGL 1157	3	ENGL 1158 or 1159 <sup>1</sup>	3
MATH 1115 or 1125 or higher	3	MATH 2785 or 2314	3
ARTS	3	BIOS	3

ANTH, PSYC or SOC	3	BA 2780	3
Elective	3	ECON 1203	3
UNIV 1001 <sup>2</sup>	1		
<b>Total Hours</b>	<b>16</b>	<b>Total Hours</b>	<b>15</b>

Second Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ACCT 2100	3	ACCT 2130	3
ECON 1204	3	BIOS or same as 3 <sup>rd</sup> term (EES, CHEM, PHYS)	3
EES, CHEM or PHYS	3	Literature	3
Humanities	3	MANG 2790	3
QMBE 2786	3	Elective	3
QMBE 2787	1		
<b>Total Hours</b>	<b>16</b>	<b>Total Hours</b>	<b>15</b>

Third Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
FIN 3300	3	HRT 2000, HRT 3017 or MKT 4535	3
Humanities	3	MANG 3402	3
MANG 3401	3	MANG 3467	3
MKT 3501	3	MANG 3778 or ACCT 3141	3
Elective	3	Business Elective	3
<b>Total Hours</b>	<b>15</b>	<b>Total Hours</b>	<b>15</b>

Fourth Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
BA 3010	3	FIN 2302, 2335, 3301, 3303, 3321, 4310, or 4311	3
BA 3021, 3080 or MKT 3526	3	MKT 3515, 3530, 3540 or 3580	3
FIN 3302	3	ECON 4261, ECON/FIN 4306, HRT 3150, MANG 4446 or MKT 4546	3
MANG 4468, 4469, 4470, 4710,			

4730, ACCT 3141 or 4142	3	MANG 4480	3
MKT 3505	3	Elective	1
Total Hours	15	Total Hours	13
Total Degree Hours			120

1. "C" or better required
2. Required for all first-time full-time students.

### Honors in Business Administration

In addition to the regular curriculum requirements listed in the Catalog, a Business Administration major wishing to graduate with honors must achieve the following:

1. maintain a minimum 3.5 overall grade point average.
2. maintain a minimum 3.50 grade point average in the business courses used for the course requirement for major.
3. complete a senior honors thesis (six semester hours) or project to be determined by agreement among the student, a faculty member in the appropriate discipline who will supervise the project, and the Director of the University's Honors Program. The student will be permitted to enroll in whatever business Major field he or she has chosen (such as Accounting 3999 or Economics 3099, for example) for thesis purposes.
4. perform satisfactorily on an oral examination defending the thesis/project.

### Minor in Business Administration

Non-business students wishing to minor in Business Administration may do so by completing the following courses with a minimum letter grade of C or better in each course:

- Accounting 2100 or 4400
- Business Administration 3010 or 3080 or 4400
- Economics 1203 or 2200 or 4400
- Finance 2302 or 3300 or 4400
- Management 3401 or 4400
- Marketing 3501 or 4400.

### Minor in Global Business Studies

Students may earn a minor in Global Business Studies by completing 18 credit hours from the following courses with a minimum letter grade of C or better in each course: Economics 4306 or Finance 4306, Management 4446, Marketing 4546; Hotel, Restaurant and Tourism 2050; Business Administration 4048; Hotel, Restaurant and Tourism 4250; Economics 4261; and Accounting 4126.

## Department of Economics and Finance

### Student Learning Outcomes

#### College of Business Administration

#### Bachelor of Science in Finance

1. Students will understand basic concepts in finance.
2. Students will demonstrate the ability to use ethics in financial decision making.
3. Ability to solve financial problems.

The mission of the Department of Economics and Finance is to provide high quality education to undergraduate students in the college and university; to engage in research and intellectual activities commensurate with a doctoral granting department, and to provide services to continuously improve the local, regional, and global

communities of our stakeholders.

## Degree Requirements

### College of Business Administration

#### Bachelor of Science in Finance

General Education Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
English		BIOS or same as other Physical Science	3
ENGL 1157	3	Humanities	
ENGL 1158 or 1159 <sup>1</sup>	3	(FTA 2650, FTA 2660, ENGL, FORL, HIST, PHIL, WGS)	6
Mathematics		ENGL Literature	3
MATH 1115 or 1125 or higher	3	Social Sciences	
MATH 2785 or 2314	3	ECON 1203	3
Science		Social Science Elective (ANTH, ECON, GEOG, POLI, PSYC, SOC, URBN) <sup>2</sup>	3
BIOS	3	Arts (Fine Arts, Music, FTA except 2650, 2660) <sup>2</sup>	3
Other Physical Science	3		
		Total	39

Other Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
ACCT 2100 <sup>1</sup>	3	MANG 3402	3
BA 2780, 3010	6	MANG 4480	3
ECON 1204	3	MKT 3501	3
ECON 2221	3	QMBE 2786, 2787	4
MANG 2790	6	Elective	11
MANG 3401	3	Business Elective	6
		Total	51

Course Requirements for Major			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
ACCT 3121 <sup>1</sup>	3	FIN 3303 or 3321	3
ACCT 3122	3	FIN 4304	3

FIN 3300	3	FIN Electives 3000 or higher	9
FIN 3302	3	FIN Electives 2000 or higher	3
		Total	30

Financial Analyst Concentration		Financial Planning Concentration	
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
FIN 4306	3	FIN 4310	3
FIN 4307	3	FIN 4311	3
FIN 4308	3	FIN 4312	3

Financial Services Admin Concentration	
Course Name/ #	Credit Hours
FIN 3303 or 3321	3
FIN 4222	3
FIN 4322	3

Total Credit Hours Required	Credit Hours
	120

1. "C" better required
2. Check General Education Courses to confirm courses fulfilling this requirement.

#### Recommended Four-Year Plan of Study

College of Business Administration  
Bachelor of Science in Finance

Four Year Plan of Study			
First Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ENGL 1157	3	ENGL 1158 or 1159 <sup>1</sup>	3
MATH 1115 or 1125 or higher	3	MATH 2785 or 2314	3
ARTS	3	BIOS	3
Social Science	3	BA 2780	3
Elective	3	ECON 1203	3
UNIV 1001 <sup>2</sup>	1		
Total Hours	16	Total Hours	15

Second Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ACCT 2100 <sup>1</sup>	3	ACCT 3121 <sup>1</sup>	3
ECON 1204	3	BIOS or same as 3 <sup>rd</sup> term (EES, CHEM, PHYS)	3
EES, CHEM or PHYS	3	ECON 2221	3
Humanities	3	Humanities	3
QMBE 2786	3	MANG 2790	3
QMBE 2787	1		
Total Hours	16	Total Hours	15

Third Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ACCT 3122	3	MANG 3402	3
FIN 3300	3	FIN 3302	3
MANG 3401	3	FIN Elective 2000+	3
Literature	3	Business Elective	3
Elective	3	Elective	3
Total Hours	15	Total Hours	15

Fourth Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
BA 3010	3	FIN 4304	3
FIN 3303 or 3321	3	FIN Electives 3000+	6
Finance Elective 3000+	3	MANG 4480	3
MKT 3501	3	Elective	1
Business Elective	3		
Total Hours	15	Total Hours	13
Total Degree Hours			120

1. "C" or better required
2. Required for all first-time full-time students.

#### Concentration Certificate/Issuing Body

Concentrations	Certificate/Issuing Body
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Financial Planning	<a href="#">Certified Financial Planner (CFP®)</a> - Certified Financial Planning Board Financial Analyst
Financial Analyst	<a href="#">Chartered Financial Analyst (CFA®)</a> - CFA Institute
Financial Services	<a href="#">Certified Treasury Professional (CTP®)</a> - Association for Financial Professional

### Financial Planning Concentration

Certified Financial Planner (CFP®) - Certified Financial Planning Board Financial Analyst

This concentration is designed for students interested in becoming a Certified Financial Planner (CFP). A CFP manages all aspects of the financial planning process including Personal Financial Planning, Insurance Planning, Investment Planning, Estate Planning, Income Tax Planning and Retirement Planning. Students must have a four year college degree and complete CFP approved coursework in each planning area for CFP certification. In partial fulfillment of both certified CFP course requirements and finance degree requirements students pursuing this concentration must complete:

- FIN 4310 (Personal Financial Planning)
- FIN 4311 (Insurance Planning and Risk Management) and
- FIN 4312 (Retirement Planning)

### Financial Analyst Concentration

Chartered Financial Analyst (CFA®) - CFA Institute

This concentration is designed for students interested in becoming a Chartered Financial Analyst (CFA). CFA is a widely recognized designation in the investment community which focuses on the areas of institutional portfolio management and investments analysis. To sit for a CFA exam, candidates must have a four year college degree, be in their final year of their undergraduate studies, or have a combination of approved course work and professional experience. Each of the CFA level exams requires significant preparation. This concentration integrates portions of the CFA's Candidate Body of Knowledge (CBOK) into course curriculum. Students pursuing this concentration must complete:

- FIN 4306 (International Finance)
- FIN 4307 (Portfolio Analysis) and
- FIN 4308 (Derivatives Analysis)

### Financial Services Administration Concentration

Certified Treasury Professional (CTP®) - Association for Financial Professional

This concentration is designed for students interested in working in the financial services industry and/or becoming a Certified Treasury Professional (CTP®) exam. A treasury professional works in various roles in an organization including money management, corporate finance, accounting, risk management and corporate governance. Students pursuing this concentration must complete:

- FIN 3303 (Financial Institutions) or FIN 3321 (Bank Administration)
- FIN 4222 (Cash and Liquidity Management) and
- FIN 4322 (Money and Capital Markets)
- Students that complete FIN 4222 will be eligible to take the CTP exam

### Minor in Economics

Students wishing to minor in Economics may do so by completing the following required courses and electives in Economics with a grade of C or better in each course: Economics 1203, 1204, and 2221 plus nine hours of electives from economics courses at the 3000 or higher level.

### Minor in Finance

Students wishing to minor in Finance may do so by completing the following required courses and electives with a grade of C or better in each course: Finance 3300, 3302, ECON 2221 plus nine hours of Finance electives - one of the electives must be at the 4000 level.

### Honors in Finance

To graduate with honors in Finance, the student must fulfill the following requirements in addition to the usual requirements for a major:

1. a minimum cumulative grade-point average of 3.5 in finance courses and a minimum of a 3.25 cumulative grade-point average;
2. at least six hours of honors coursework in finance;
3. a senior honors thesis or project in Finance 3099. The thesis or project is to be determined by mutual agreement with the student, a faculty member who will supervise the project, and a departmental member of the University Honors Committee. The student will perform satisfactorily on an examination defending the thesis or project. Six hours of thesis credit must be completed.

## Lester E. Kabacoff School of Hotel, Management and Tourism

### Student Learning Outcomes

#### College of Business Administration

#### Bachelor of Science in Hotel, Restaurant and Tourism Administration

1. Students will understand industry expectations for employees of the hospitality and tourism.
2. Students will receive training to improve presentation skills.
3. Students will demonstrate the effective use of computers and information technology.
4. The School of HRT will provide students with skills and competencies that prepare them for a career in the hospitality and tourism industry.

### Degree Requirements

#### College of Business Administration

#### Bachelor of Science in Hotel, Restaurant and Tourism Administration

General Education Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
English		BIOS or same as other Physical Science	3
ENGL 1157	3	Humanities	
ENGL 1158 or 1159 <sup>1</sup>	3	(FTA 2650, FTA 2660, ENGL, FORL, HIST, PHIL, WGS)	6
Mathematics		ENGL Literature	3
MATH 1115 or 1125 or higher	3	Social Sciences	
MATH 2785 or 2314	3	ECON 1203	3
Science		Social Science Elective (ANTH, ECON, GEOG, POLI, PSYC, SOC, URBN) <sup>2</sup>	3
BIOS	3	Arts (Fine Arts, Music, FTA except 2650, 2660) <sup>2</sup>	3

Other Physical Science	3		
		Total	39

Other Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
ACCT 2100, 2130	6	MANG 2790, 3401, 3778	9
BA 2780	3	MKT 3501	3
ECON 1204, FIN 3300	6	Electives	11
HRT 2000, 2030	6	HRT or Business Electives	6
		Total	50

Course Requirements for Major			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
HRT 3002, 3011, 3016	7	HRT Electives	12
HRT 3017, 3140, 4000	9	MANG 3467	3
		Total	31

Convention and Event Management Concentration		Hotel and Lodging Management Concentration	
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
HRT 2070	3	HRT 2020	3
HRT 4150	3	HRT 2070, 3141, 3145	3
HRT 3290, 3295, or 4290	3	HRT 3290, 3295, or 4290	3

Food and Beverage Concentration		Tourism Concentration	
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
HRT 3141	3	HRT 2050	3
HRT 3145	3	HRT 3150	3
FHRT 3290, 3295, 4230, or 4290	3	HRT 3290, 3295, or 4250	3
		Total	9

Total Credit Hours Required	Credit Hours
	120

1. "C" or better required

## 2. Check General Education Courses to confirm courses fulfilling this requirement

Students may elect to take a nine credit hour concentration plus one Hotel, Restaurant and Tourism three credit hour elective. Students, if they wish, may elect a concentration in Tourism; Convention and Event Management; Hotel and Lodging Management; or Food and Beverage Management by completing the appropriate Hotel, Restaurant and Tourism courses as their Hotel, Restaurant and Tourism electives.

**Recommended Four-Year Plan of Study****College of Business Administration****Bachelor of Science in Hotel, Restaurant and Tourism Administration**

Four Year Plan of Study			
First Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ENGL 1157	3	ENGL 1158 or 1159 <sup>1</sup>	3
MATH 1115 or 1125 or higher	3	MATH 2785 or 2314	3
ARTS	3	BIOS	3
Social Science	3	BA 2780	3
HRT 2000	3	ECON 1203	3
UNIV 1001 <sup>2</sup>	1		
Total Hours	16	Total Hours	15

Second Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ACCT 2100	3	ACCT 2130	3
ECON 1204	3	BIOS or same as 3 <sup>rd</sup> term (EES, CHEM, PHYS)	3
EES, CHEM or PHYS	3	HRT Elective	3
HRT 2030	3	MANG 2790	3
Humanities	3	Elective	3
		HRT 3002	1
Total Hours	15	Total Hours	16

Third Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
HRT 3017	3	Business Elective	3
HRT 3140	3	HRT 3011	3
Humanities	3	HRT Elective	3

Literature	3	MANG 3401	3
MKT 3501	3	Elective	3
Total Hours	15	Total Hours	15

Fourth Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
Business Elective	3	HRT Elective	3
FIN 3300	3	HRT 4000	3
Elective	3	MANG 3467	3
HRT 3016	3	MANG 3778	3
HRT Elective	3	Elective	1
Total Hours	15	Total Hours	13
Total Degree Hours			120

1. "C" or better required
2. Required for all first-time full-time students.

#### Tourism Concentration

Hotel, Restaurant and Tourism 2050, 3150, 3290 or 3295 or 4250.

## Department of Management

### Department of Management Mission

The Department of Management is dedicated to the development of managerial skills—analytical and interpersonal—which will enable students to succeed in a competitive international workplace. The department's primary mission, therefore, is to provide quality management education for undergraduate and graduate students by utilizing current management thought incorporated in an experience-based learning environment. A second component of the department's mission is the pursuit of a balanced approach that encourages and rewards both applied and basic research. Finally, the Department of Management faculty is committed to training and development at all levels of organizational life as part of its applied curriculum.

### Student Learning Outcomes

#### College of Business Administration Bachelor of Science in Management

1. Students will learn to apply management concepts effectively and to integrate knowledge from other business disciplines in their management decision making.
2. Students will learn to apply management concepts effectively in real situations.
3. Students will learn effective management and leadership skills.

### Curriculum in Management

Bachelor of Science in Management

#### General Education Requirements

Course Name/ #	Credit Hours	Course Name/#	Credit Hours
English		BIOS or same as other Physical Science	3
ENGL 1157	3	Humanities	
ENGL 1158 or 1159 <sup>1</sup>	3	(FTA 2650, FTA 2660, ENGL, FORL, HIST, PHIL, WGS) <sup>2</sup>	6
Mathematics		ENGL Literature	3
MATH 1115 or 1125 or higher	3	Social Sciences	
MATH 2785 or 2314	3	ECON 1203	3
Science		Social Science Elective (ANTH, ECON, GEOG, POLI, PSYC, SOC, URBN) <sup>2</sup>	3
BIOS	3	Arts (Fine Arts, Music, FTA except 2650, 2660) <sup>2</sup>	3
Other Physical Science	3		
		Total	39

Other Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
ACCT 2100, 2130	6	MKT 3501	3
BA 1001, 2780, 3010	9	QMBE 2786, 2787	4
ECON 1204, FIN 3300	6	General Elective	14
MANG 2790, 4446	6		
		Total	48

Course Requirements for Major			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
MANG 3401 <sup>1</sup>	3	MANG 4480 <sup>1</sup>	3
MANG 3402 <sup>1</sup>	3	MANG 4710 <sup>1</sup>	3
MANG 3778 <sup>1</sup>	3	MANG 4730, 4750 or 4760 <sup>1</sup>	3
MANG 4424 <sup>1</sup>	3	MANG Electives 3000 level or higher <sup>1</sup>	12
		Total	33

#### Human Resource Concentration

Course Name/ #	Credit Hours
MANG 3467 <sup>1</sup>	3
MANG 4468 <sup>1</sup>	3
MANG 4469 <sup>1</sup>	3
MANG 4470 <sup>1</sup>	3

Total	12
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Total Credit Hours Required	Credit Hours
	120

- "C" or better required
- Check General Education Courses to confirm what courses fulfill this requirement

Additional Comments
BA 3056, BA 3090, BA 3091, BA 4056, BA 4076 can be used as MANG electives.

#### Recommended Four-Year Plan of Study

College of Business Administration  
Bachelor of Science in Management

Four Year Plan of Study			
First Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ENGL 1157	3	ENGL 1158 or 1159 <sup>1</sup>	3
MATH 1115 or 1125 or higher	3	MATH 2785 or 2314	3
ARTS	3	BIOS	3
Social Sciences	3	BA 2780	3
BA 1001	3	ECON 1203	3
UNIV 1001 <sup>2</sup>	1		
Total Hours	16	Total Hours	15

Second Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ACCT 2100	3	ACCT 2130	3
ECON 1204	3	BIOS or same as 3 <sup>rd</sup> term (EES,	3

		CHEM, PHYS)	
EES, CHEM or PHYS	3	Literature	3
Humanities	3	MANG 2790 <sup>1</sup>	3
QMBE 2786	3	MKT 3401 <sup>1</sup>	3
QMBE 2787	1		
Total Hours	16	Total Hours	15

Third Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
Humanities	3	MANG Electives 3000 level or higher <sup>1</sup>	3
MANG 3402 <sup>1</sup>	3	MANG Electives 3000 level or higher <sup>1</sup>	3
MKT 3501 <sup>1</sup>	3	MANG 3778 <sup>1</sup>	3
Electives	6	Electives	6
Total Hours	15	Total Hours	15

Fourth Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
FIN 3300	3	BA 3010	3
MANG Elective 3000 level or higher <sup>1</sup>	3	MANG 4730, 4750 or 4760 <sup>1</sup>	3
MKT 4446 <sup>1</sup>	3	MANG Elective 3000 level or higher <sup>1</sup>	3
MANG 4710 <sup>1</sup>	3	MANG 4424 <sup>1</sup>	3
Elective	1	MANG 4480 <sup>1</sup>	3
Total Hours	15	Total Hours	15
Total Degree Hours			120

1. "C" or better required
2. Required for all first-time full-time students.

#### Human Resource Management Concentration

The Concentration in Human Resource Management requires the completion of Management 3467, 4468, 4469 and 4470. The Human Resource Management Concentration is designed to prepare the student for a career or graduate study in the area of personnel/ human resource management.

#### Minor in Management

Students wishing to minor in management may do so by completing 18 credit hours in management courses at or above the 3000 level with a letter grade of C or better in each course.

### Minor in Entrepreneurship

Students wishing to minor in entrepreneurship may do so by completing 18 credit hours in entrepreneurship. The student must take

- Business Administration 4056.
- Finance 3301,

and four additional entrepreneurship courses to be chosen from

- Business Administration 1001, 3056, 3090, 3091, 4076
- Management 3070, 3071, or
- Finance 4222.

A grade of C or better must be received in each course.

### Minor in Information Systems Management

Students wishing to minor in Information Systems Management may do so by completing 18 credit hours in approved management information systems courses. Students must take Management 3778, and five of the following:

- Management 4710, 4730, 4735, 4740, 4750, 4760, and Accounting 4142

A grade of C or better must be received in each course.

### Honors in Management

To graduate with Honors in Management, the following requirements, in addition to the usual requirements for the major, must be fulfilled.

1. maintain a minimum cumulative grade-point average of 3.5 in management courses and a 3.5 grade-point overall;
2. complete at least six hours of honors course work in management; and,
3. complete a six-hour senior honors thesis, Management 3099.

## Department of Marketing and Logistics

### Department of Marketing and Logistics Mission

The Department of Marketing & Logistics teaches and offers an undergraduate degree in marketing, undertakes research in the discipline of marketing, and serves as a marketing knowledge resource for the New Orleans community as well as the state and nation and globally. The Department of Marketing & Logistics offers one degree – the Bachelor of Science in Marketing. Students who successfully complete the B.S. degree will be qualified for a variety of marketing careers and/or graduate programs.

### Student Learning Outcomes

#### College of Business Administration Bachelor of Science in Marketing

Undergraduate marketing majors will acquire high quality training in marketing that prepares them for their careers.

Students will possess core marketing fundamentals. Specifically, they will be able:

1. To understand basic marketing concepts and the role of marketing within organizations and in the marketplace;

2. To understand the factors which determine markets, and market segments, and what makes a market segment a good target market;
3. To become familiar with the primary tools used by marketing managers to create and implement customer-oriented marketing strategies, and how these are used to reach targeted markets;
4. To understand the necessary relationships between a firm's targeted market segment and its product, price, distribution and promotion;
5. To understand how external factors (e.g. competition, culture, the economy, technology, and political and legal constraints) affect a firm's domestic and global marketing efforts;
6. To recognize the importance of defining and implementing ethical standards and policies of social responsibility that will create enduring relationships between firms and their clients and work to the general benefit of society as a whole; and,
7. To understand how to measure and evaluate marketing success.

In addition, undergraduate marketing majors will be able to successfully communicate marketing knowledge in both oral and written form.

### Degree Requirements

#### College of Business Administration

#### Bachelor of Science in Marketing

General Education Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
English		BIOS or same as other Physical Science	3
ENGL 1157	3	Humanities	
ENGL 1158 or 1159 <sup>1</sup>	3	(FTA 2650, FTA 2660, ENGL, FORL, HIST, PHIL, WGS) <sup>2</sup>	6
Mathematics		ENGL Literature	3
MATH 1115 or 1125 or higher <sup>1</sup>	3	Social Sciences	
MATH 2785 or 2314	3	ECON 1203	3
Science		Social Science Elective (ANTH, PSYC or SOC) <sup>2</sup>	3
BIOS	3	Arts (Fine Arts, Music, FTA except 2650, 2660) <sup>2</sup>	3
Other Physical Science	3		
		Total	39

Other Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
ACCT 2100, 2130	6	MANG 2790, 3401, 3402, 4480	12
BA 2780, 3010	6	QMBE 2786, 2787	4
ECON 1204	3	Business Elective	3
FIN 3300	3	Electives	14

		Total	51
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Course Requirements for Major			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
MKT 3501 <sup>1</sup>	3	MKT 4590 <sup>1</sup>	3
MKT 3505 <sup>1</sup>	3	MKT Electives 3000 or higher <sup>1</sup>	9
MKT 3510 <sup>1</sup>	3	Business Electives	6
MKT 4580 <sup>1</sup>	3		
		Total	30

Sales Concentration	
Course Name/ #	Credit Hours
MKT 3515 <sup>1</sup>	3
MKT 3530 <sup>1</sup>	3
MKT 3580 <sup>1</sup>	3
Total	9

Total Credit Hours Required	Credit Hours
	120

1. "C" or better required
2. Check General Education Courses to confirm courses fulfilling this requirement

#### Recommended Four-Year Plan of Study

#### COLLEGE OF BUSINESS ADMINISTRATION Bachelor of Science in Marketing

Four Year Plan of Study			
First Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ENGL 1157	3	ENGL 1158 or 1159 <sup>1</sup>	3
MATH 1115 or 1125 or higher	3	MATH 2785 or 2314	3
ARTS	3	BIOS	3
ANTH, PSYC, SOC	3	BA 2780	3
Elective	3	ECON 1203	3
UNIV 1001 <sup>2</sup>	1		

Total Hours	16	Total Hours	15
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Second Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ACCT 2100	3	ACCT 2130	3
ECON 1204	3	BIOS or same as 3 <sup>rd</sup> term (EES, CHEM, PHYS)	3
EES, CHEM or PHYS	3	Literature	3
Humanities	3	MANG 2790	3
QMBE 2786	3	MKT 3501 <sup>1</sup>	3
QMBE 2787	1		
Total Hours	16	Total Hours	15

Third Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
Humanities	3	FIN 3300	3
MANG 3401	3	MANG 3402	3
MKT 3505 <sup>1</sup>	3	MKT 3510 <sup>1</sup>	3
MKT Elective 3000 level or higher <sup>1</sup>	3	MKT Electives 3000 level or higher <sup>1</sup>	3
Elective	3	Elective	3
Total Hours	15	Total Hours	15

Fourth Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
BA 3010	3	MKT 4590 <sup>1</sup>	3
MKT 4580 <sup>1</sup>	3	MKT Elective 3000 level or higher <sup>1</sup>	3
MANG 4480	3	Business Elective	6
Business Elective	3	Elective	1
Elective	3		
Total Hours	15	Total Hours	13
Total Degree Hours			120

1. "C" or better required
2. Required for all first-time full-time students.

### Sales Concentration

The Concentration in Sales requires the completion of Marketing 3515, 3530 and 3580 (Marketing Internship).

### Minor in Marketing

Students wishing to minor in marketing may do so by completing 18 credit hours in marketing courses at or above the 3000 level with a letter grade of C or better in each course. The student must take:

- Marketing 3501, 3505, 3510
- And a minimum of three additional marketing courses at the 3000 or 4000 level.

### Honors in Marketing

An honors program is available to superior students majoring in marketing. Successful completion of the program results in graduation with Honors in Marketing. For admission to the program a student must have grade-point averages of at least 3.5 cumulative and 3.5 in marketing courses and must have permission of the department and the Honors Program director. Before graduation, the student must take six hours of Senior Honors Thesis (Marketing 3599) resulting in an acceptable honors thesis.

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# College of Education and Human Development

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## Programs of Study

The College of Education and Human Development offers teacher education programs at the undergraduate and graduate levels. The following table provides an overview of each certification and degree option offered in teacher education. These programs are described below in this section of the catalog.

<a href="#">Secondary Teaching - Earth Science</a>	<a href="#">Secondary Teaching - Social Studies</a>
<a href="#">Secondary Teaching - English</a>	<a href="#">Human Performance and Health Promotion - Exercise Physiology Concentration</a>
<a href="#">Secondary Teaching - Mathematics</a>	<a href="#">Human Performance and Health Promotion - Health Promotion Concentration</a>

In addition to initial certification programs, the College of Education and Human Development offers several advanced-level programs of study focused on the needs of teachers, school leadership personnel, counselors, community and health agency personnel. These programs are described on the college web site at [www.uno.edu/coehd](http://www.uno.edu/coehd).

### Curriculum in Secondary Teaching - Earth Science Bachelor of Science in Secondary Teaching - Earth Science

General Education Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
English		EES 1002	3
ENGL 1157	3	Humanities	
ENGL 1158 or 1159 <sup>1</sup>	3	Humanities Electives <sup>2</sup>	6
Mathematics		ENGL Literature	3
MATH 1115	3	Social Sciences	
MATH 1116	3	Social Sciences elective <sup>3</sup>	6
Science		Arts	

BIOS 1073	3	Arts elective <sup>4</sup>	3
EES 1000	3		
		Total	39

Certification Content Area		Other Requirements	
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
BIOS 1071	1	EES 2740	3
CHEM 1012 or 1017	3	EES 3096 or 4096	4
EES 1001	1	EES 3760 or 4550	3
EES 1003	1	EDHS 1110	3
EES 1004	3	EDSP 3610	3
EES 1005	1	EDUC 2100	3
EES 1006	3	EDUC 2204	4
EES 2051	3	PHYS 1001	3
EES 2700	4		
		Total	46

Course Requirements for Major			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
EDCI 3310 Concurrent enrollment in EDCI 3311	3	EDSP 3620	3
EDCI 3311 Concurrent enrollment in EDCI 3310	1	EDUC 3000	3
EDCI 4201 Concurrent enrollment in EDCI 4250	1	EDUC 3007	0
EDCI 4250 Concurrent enrollment in EDCI 4201	3	EDUC 3100	3
EDCI 4251 Concurrent enrollment in EDUC 4920	3	EDUC 3110	3
EDCI 4432	3	EDUC 4920 Concurrent enrollment in EDCI 4251	9
EDCI 4620	3		
		Total	38

Total Credit Hours Required	Credit Hours
	123

1. "C" or better required
2. Humanities Electives - FTA, ENGL, Foreign Language, HIST, PHIL, or WGS. Check General Education Courses to confirm what courses fulfill this requirement
3. Select from ECON, GEOG, POLI, PSYC or SOC. 3 hours must be 2000 level course. Check General Education Courses to confirm what courses fulfill this requirement
4. FTA (theatre/dance/film related course, FA or MUS). Check General Education Courses to confirm what courses fulfill this requirement

#### Non-Coursework

#### Course Name/ #

Passing scores on appropriate PRAXIS Exams

Minimum grade of "C" in all courses for certification content area

Minimum GPA of 2.5 for all undergraduate coursework

#### Recommended Four-Year Plan of Study Bachelor of Science in Secondary Teaching - Earth Science

Four Year Plan of Study			
First Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ENGL 1157	3	ENGL 1158 or 1159	3
MATH 1115	3	MATH 1116	3
EDUC 2204	4	EDUC 2100	3
Arts <sup>1</sup>	3	EES 1000	3
Humanities <sup>2</sup>	3	EES 1001	1
UNIV 1001 <sup>4</sup>	1	Social Science <sup>3</sup>	3
Total Hours	17	Total Hours	16

Second Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
BIOS 1071	1	CHEM 1012 or 1017	3
BIOS 1073	3	EDHS 1110	3
EDSP 3610	3	EDCI 3310/3311	3/1
PHYS 1001	3	ENGL Literature	3
EES 1002	3	EES 1004	3

EES 1003	1	EES 1005	1
Total Hours	14	Total Hours	17

Third Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
EDSP 3620	3	Social Science <sup>3</sup>	3
EDUC 3000	3	EDCI 4250/4201	3/1
EDUC 3100	3	EDUC 3110	3
EES 1006	3	EES 2700	4
EES 2051	3	EES 2740	3
Total Hours	15	Total Hours	17

Fourth Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
EDCI 4432	3	EDCI 4251	3
EDCI 4620	3	EDUC 4920	9
EDUC 3007	0		
EES 3096 or 4096	4		
EES 3760 OR 4550	3		
Humanities <sup>2</sup>	3		
Total Hours	16	Total Hours	12
Total Degree Hours			124

1. Arts FTA (theatre/dance/film related courses), FA or MUS: all courses
2. Humanities (EDLS 3100 and HIST 1001, 1002, 2501, 2502 or 2601)
3. Social Sciences (ECON, GEOG, POLI, PSYC, or SOC) One course MUST be at the 2000 level
4. Required for all first-time full-time students.

Curriculum in Secondary Teaching - English  
Bachelor of Science in Secondary Teaching - English

General Education Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
English		Humanities	
ENGL 1157	3	ENGL 2031	3

ENGL 1158 or 1159 <sup>1</sup>	3	ENGL 2032	3
Mathematics		ENGL 2341	3
MATH (1115, 1116, 1031 or 1032)	6	Social Sciences	
Science		Social Sciences elective <sup>2</sup>	6
BIOS 1053	3	Arts	
BIOS or Physical Science <sup>3</sup>	3	Arts elective <sup>4</sup>	3
		Total	39

#### Other Requirements

Course Name/ #	Credit Hours	Course Name/#	Credit Hours
ENGL (writing course) <sup>5</sup>	6	ENGL (4000 level British Lit)	3
ENGL 2258	3	EDUC 2100	3
ENGL 2342	3	EDUC 2204	4
ENGL (diversity) <sup>6</sup>	3	EDSP 3610	3
ENGL Classical/World <sup>7</sup>	3	EDHS 1110	3
ENGL 4521 or 4522	3	EDLS 4200	3
ENGL (4000 level American Lit)	3		
		Total	43

#### Course Requirements for Major

Course Name/ #	Credit Hours	Course Name/#	Credit Hours
EDCI 3310 Concurrent enrollment in EDCI 3311	3	EDSP 3620	3
EDCI 3311 Concurrent enrollment in EDCI 3310	1	EDUC 3000	3
EDCI 4201 Concurrent enrollment in EDCI 4220	1	EDUC 3005	0
EDCI 4220 Concurrent enrollment in EDCI 4201	3	EDUC 3100	3
EDCI 4221 Concurrent enrollment in EDUC 4920	3	EDUC 3110	3
EDCI 4432	3	EDUC 4920 Concurrent enrollment in EDCI 4221	9
EDCI 4620	3		
		Total	38

Total Credit Hours Required	Credit Hours
	120

- "C" or better required
- Select from ECON, GEOG, POLI, PSYC or SOC. 3 hours must be 2000 level course. Check General Education Courses to confirm what courses fulfill this requirement
- 6 hour sequence in one science. Select from BIOS, CHEM, EES, PHYS. 3 hours must be BIOS. Check General Education Courses to confirm what courses fulfill this requirement
- FTA (theatre/dance/film related course, FA or MUS). Check General Education Courses to confirm what courses fulfill this requirement
- ENGL 2151, 2154, 2161, 2163, 4151, 4154, 4161, or 4163
- ENGL 2071, 2072, 2375, 2376, 2378, 4070, 4093, 4376 or 4378
- ENGL 2371, 2372, 2374, 2377, 4230, 4370 or 4390

Non-Coursework
Course Name/ #
Passing scores on appropriate PRAXIS Exams
Minimum grade of "C" in all courses
Minimum GPA of 2.5 for all undergraduate coursework

**Recommended Four-Year Plan of Study**  
**Bachelor of Science in Secondary Teaching - English**

Four Year Plan of Study			
First Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ENGL 1157	3	ENGL 1158 or 1159	3
MATH 1115 or 1031	3	MATH 1116 or 1032	3
EDUC 2204	4	EDUC 2100	3
Arts <sup>1</sup>	3	BIOS	3
Social Science <sup>2</sup>	3	Social Science <sup>2</sup>	3
UNIV 1001 <sup>7</sup>	1		
Total Hours	17	Total Hours	15

Second Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
Science <sup>3</sup>	3	Science <sup>3</sup>	3
EDSP 3610	3	EDHS 1110	3
ENGL (writing course) <sup>4</sup>	3	EDCI 3310/3311	3/1

ENGL 2031	3	ENGL (writing course) <sup>4</sup>	3
ENGL 2032	3	ENGL 2341	3
Total Hours	15	Total Hours	16

Third Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
EDSP 3620	3	EDCI 4220/4201	3/1
EDUC 3000	3	EDLS 4200	3
EDUC 3100	3	EDUC 3110	3
ENGL 2342	3	ENGL (Diversity) <sup>5</sup>	3
ENGL 2258	3	ENGL Classical/World <sup>6</sup>	3
Total Hours	15	Total Hours	16

Fourth Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
EDCI 4432	3	EDCI 4221	3
EDCI 4620	3	EDUC 4920	9
EDUC 3005	0		
ENGL 4521 or 4522	3		
ENGL (4000 level British lit)	3		
ENGL (4000 level American Lit)	3		
Total Hours	15	Total Hours	12
Total Degree Hours			121

1. Arts FTA (theatre/dance/film related courses), FA or MUS: all courses
2. Social Science (ECON, GEOG, POLI, PSYC, or SOC) One course MUST be at the 2000 level
3. Science (6 hr sequence in one science. Select from BIOS, CHEM, EES or PHYS.)
4. ENGL 2151, 2154, 2161, 2163, 4151, 4154, 4161, or 4163
5. ENGL 2071, 2072, 2375, 2376, 2378, 4070, 4093, 4376 or 4378
6. ENGL 2371, 2372, 2374, 2377, 4230, 4370 or 4390
7. Required for all first-time full-time students.

[Curriculum in Secondary Teaching - Mathematics](#)  
[Bachelor of Science in Secondary Teaching - Mathematics](#)

General Education Requirements

Course Name/ #	Credit Hours	Course Name/#	Credit Hours
English		BIOS or Physical Science <sup>4</sup>	6
ENGL 1157	3	Humanities	
ENGL 1158 or 1159 <sup>1</sup>	3	Humanities Electives <sup>2</sup>	6
Mathematics		ENGL Literature	3
MATH 1125	3	Social Sciences	
MATH 1126	3	Social Sciences elective <sup>3</sup>	6
Science		Arts	
BIOS <sup>4</sup>	3	Arts Elective <sup>5</sup>	3
		Total	39

Certification Content Area		Other Requirements	
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
EDHS 1110	3	MATH 2134	4
EDSP 3610	3	MATH 3400	3
EDUC 2100	3	MATH 3511	3
EDUC 2204	4	MATH 3512	3
MATH 2114	4	MATH 3721	3
MATH 2314	3	MATH Elective (2000 level or above)	3
MATH 2124	4	MATH Elective	3
		Total	46

Course Requirements for Major			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
EDCI 3310 Concurrent enrollment in EDCI 3311	3	EDSP 3620	3
EDCI 3311 Concurrent enrollment in EDCI 3310	1	EDUC 3000	3
EDCI 4201 Concurrent enrollment in EDCI 4250	1	EDUC 3006	0
EDCI 4240 Concurrent enrollment in EDCI 4201	3	EDUC 3100	3
EDCI 4241 Concurrent enrollment in EDUC 4920	3	EDUC 3110	3
EDCI 4432	3	EDUC 4920 Concurrent enrollment in EDCI 4251	9

EDCI 4620	3		
		Total	38

Total Credit Hours Required	Credit Hours
	123

Non-Coursework
Course Name/ #
Passing scores on appropriate PRAXIS Exams
Minimum grade of "C" in all courses for certification content area
Minimum GPA of 2.5 for all undergraduate coursework

- "C" or better required
- Humanities Electives - FTA, ENGL, Foreign Language, HIST, PHIL, or WGS. Check General Education Courses to confirm what courses fulfill this requirement
- Select from ECON, GEOG, POLI, PSYC or SOC. 3 hours must be 2000 level course. Check General Education Courses to confirm what courses fulfill this requirement
- 6 hour sequence in one science. Select from BIOS, CHEM, EES, PHYS. 3 hours must be BIOS. Check General Education Courses to confirm what courses fulfill this requirement
- FTA (theatre/dance/film related course, FA or MUS). Check General Education Courses to confirm what courses fulfill this requirement.

#### Recommended Four-Year Plan of Study

##### Bachelor of Science in Secondary Teaching - Mathematics

Four Year Plan of Study			
First Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ENGL 1157	3	ENGL 1158 or 1159	3
MATH 1125	3	MATH 1126	3
EDUC 2204	4	EDUC 2100	3
Arts <sup>1</sup>	3	Science(BIOS) <sup>3</sup>	3
Humanities <sup>2</sup>	3	Social Science <sup>4</sup>	3
UNIV 1001 <sup>5</sup>	1		
Total Hours	17	Total Hours	15

Second Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ENGL Literature	3	Science <sup>3</sup>	3

Science <sup>3</sup>	3	EDHS 1110	3
EDSP 3610	3	EDCI 3310/3311	3/1
MATH 2114	4	MATH 2124	4
MATH 2314	3	MATH 3721	3
Total Hours	16	Total Hours	17

Third Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
EDSP 3620	3	Social Science <sup>4</sup>	3
EDUC 3000	3	EDCI 4240/4201	3/1
EDUC 3100	3	EDUC 3110	3
MATH 2134	4	MATH 3511	3
MATH (Elective 2000+)	3	MATH 3400	3
Total Hours	16	Total Hours	16

Fourth Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
EDCI 4432	3	EDCI 4241	3
EDCI 4620	3	EDUC 4920	9
EDUC 3006	0		
MATH 3512	3		
MATH (Elective)	3		
Humanities <sup>2</sup>	3		
Total Hours	15	Total Hours	12
Total Degree Hours			124

1. Arts FTA (theatre/dance/film related courses), FA or MUS: all courses
2. Humanities (EDLS 3100 and HIST 1001, 1002, 2501, 2502 or 2601)
3. Science (6 hr sequence in one science. Select from BIOS, CHEM, EES or PHYS. 3 hrs. must be BIOS)
4. Social Science (ECON, GEOG, POLI, PSYC, or SOC) One course MUST be at the 2000 level
5. Required for all first-time full-time students.

[Curriculum in Secondary Teaching - Social Studies](#)  
[Bachelor of Science in Secondary Teaching - Social Studies](#)

General Education Requirements

Course Name/ #	Credit Hours	Course Name/#	Credit Hours
English		Humanities	
ENGL 1157	3	ENGL Literature	3
ENGL 1158 or 1159 <sup>1</sup>	3	HIST 2501	3
Mathematics		HIST 2502	3
MATH 1115	3	Social Sciences	
MATH 1116 or 1031	3	ECON 1203	3
Science		GEOG 1001, 1002 or 1600	3
BIOS 1053	3	Arts	
BIOS or Physical Science <sup>2</sup>	6	Arts Elective <sup>3</sup>	3
		Total	39

Other Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
ECON 1204	3	HIST 2601	3
EDUC 2100	3	HIST Elective (3000+)	3
EDUC 2204	4	POLI 2151	3
EDSP 3610	3	POLI Elective (3000+)	3
EDHS 1110	3	SOC 1051	3
GEOG 2151, 2356 or 4768	3	Social Sciences (ANTH, ECON, GEOG, POLI, PSYC, SOC or URBN)	6
HIST 1001 or 1002	3		
		Total	43

Course Requirements for Major			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
EDCI 3310 Concurrent enrollment in EDCI 3311	3	EDSP 3620	3
EDCI 3311 Concurrent enrollment in EDCI 3310	1	EDUC 3000	3
EDCI 4201 Concurrent enrollment in EDCI 4220	1	EDUC 3008	0
EDCI 4260 Concurrent enrollment in EDCI 4201	3	EDUC 3100	3
EDCI 4261 Concurrent enrollment in EDUC 4920	3	EDUC 3110	3

EDCI 4432	3	EDUC 4920 Concurrent enrollment in EDCI 4261	9
EDCI 4620	3		
		Total	38

Total Credit Hours Required	Credit Hours
	126

Non-Coursework
Course Name/ #
Passing scores on appropriate PRAXIS Exams
Minimum grade of "C" in all courses for certification content area
Minimum GPA of 2.5 for all undergraduate coursework

- "C" or better required
- 6 hour sequence in one science. Select from BIOS, CHEM, EES, PHYS. 3 hours must be BIOS. Check General Education Courses to confirm what courses fulfill this requirement
- FTA (theatre/dance/film related course, FA or MUS). Check General Education Courses to confirm what courses fulfill this requirement

#### Recommended Four-Year Plan of Study

#### Bachelor of Science in Secondary Teaching - Social Studies

Four Year Plan of Study			
First Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ENGL 1157	3	ENGL 1158 or 1159	3
MATH 1115	3	MATH 1116 or 1031	3
EDUC 2204	4	EDUC 2100	3
Arts <sup>1</sup>	3	Science(BIOS) <sup>2</sup>	3
HIST 1001 or 1002	3	SOC 1051	3
UNIV 1001 <sup>4</sup>	1		
Total Hours	17	Total Hours	15

Second Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ENGL Literature	3	Science <sup>2</sup>	3
Science <sup>2</sup>	3	EDHS 1110	3

EDSP 3610	3	EDCI 3310/3311	3/1
ECON 1203	3	GEOG 1001, 1002 or 1600	3
HIST 2501	3	HIST 2502	3
Total Hours	15	Total Hours	16

Third Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
EDSP 3620	3	EDCI 4260/4201	3/1
EDUC 3000	3	EDUC 3110	3
EDUC 3100	3	HIST 2601	3
ECON 1204	3	Social Science <sup>3</sup>	3
Social Science <sup>3</sup>	3	POLI 2151	3
Total Hours	15	Total Hours	16

Fourth Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
EDCI 4432	3	EDCI 4261	3
EDCI 4620	3	EDUC 4920	9
EDUC 3008	0		
POLI Elective 3000+	3		
HIST Elective 3000+	3		
GEOG 2151, 2356 or 4768	3		
Total Hours	15	Total Hours	12
Total Degree Hours			121

1. Arts FTA (theatre/dance/film related courses), FA or MUS: all courses
2. Science (6 hr sequence in one science. Select from BIOS, CHEM, EES or PHYS. 3 hrs. must be BIOS)
3. Social Science (ECON, GEOG, POLI, PSYC, or SOC) One course MUST be at the 2000 level
4. Required for all first-time full-time students.

#### Minor in Secondary Education

The College of Education and Human Development offers a minor in Secondary Education for students from the College of Liberal Arts and the College of Sciences. The requirements of the minor are as follows:

1. Completion of the requirements for a degree in English, History, Mathematics, Biology, Chemistry, or Earth Sciences with a minimum grade of C in each course in the academic content area.
2. A total of 21 credit hours in the College of Education and Human Development with a grade of C or better in each of the following courses:

Education 2204 (4)

Education 3100 (3)  
 Curriculum and Instruction 3310 (3) and 3311 (1)  
 Curriculum and Instruction 4432 (3)  
 Curriculum and Instruction 4620 (3)  
 Curriculum and Instruction 4220, 4240, 4250, or 4260 (3) and 4201 (1)

3. Receive passing scores on the PRAXIS I, ACT, or SAT
4. Pass all required performance assessments and disposition reviews.
5. Note: No independent study/substitution courses will be allowed in the Education minor program

Students seeking teacher certification as part of their baccalaureate program must also:

1. Receive passing score(s) for PRAXIS II content area exam(s) prior to student teaching.
2. Receive a passing score and the Principles of Learning and Teaching exam prior to graduation.
3. Successfully complete a student teaching experience:  
 Education 4920 (9) and Curriculum and Instruction 4221, 4241, 4251, or 4261 (3) for certification in English, Mathematics, Sciences, and Social Studies respectively.

Students who fulfill the requirements of the minor in Secondary Education but are unable to complete the additional requirements for certification prior to graduation may enroll in the college's alternative certification program to complete the requirements for certification within four (academic year) semesters beginning the semester after graduation.

### Student Learning Outcomes

#### Bachelor of Science in Human Performance and Health Promotion

1. Graduates with a Bachelor of Science in Human Performance and Health Promotion will demonstrate professional knowledge, skills, and competencies as they deliver health instruction or services to clients
2. Graduates with the Bachelor of Science in Human Performance and Health Promotion will evaluate aspects of their academic preparation favorably.
3. Graduates will be encouraged to complete the appropriate certification exam (CHES or ACSM certification)

### Curriculum in Human Performance and Health Promotion

#### Bachelor of Science in Human Performance and Health Promotion

#### Exercise Physiology Concentration

General Education Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
English		CHEM 1017	3
ENGL 1157	3	Humanities	
ENGL 1158 or 1159 <sup>1</sup>	3	Humanities (FTA, ENGL, Foreign Languages, HIST, PHIL, WGS)	6
Mathematics		ENGL Literature	3
MATH 1115 or 1031	3	Social Sciences	
MATH 1116 or 1032	3	Social Sciences elective <sup>2</sup>	6
Science		Arts	
BIOS 1303	3	Arts elective <sup>3</sup>	3
BIOS 1313	3		
		Total	39

Other Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
BIOS 1301	1	CHEM 1007	1
BIOS 1311	1	PHYS 1031	3
Electives	21	PHYS 1033	1
		Total	28

Course Requirements for Major			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
EDHP 2110	3	EDHS 4200/PHIL 4200	3
EDHP 2170	3	EDHP/EDHS Electives (2000 level or above)	6
EDHS 1110	3	EDHP/EDHS Electives (4000 level)	12
		Total	30

Concentration Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
EDHP 1090	2	EDHP 4222	3
EDHP 3200	3	EDHS 4610	3
EDHP 3201	3	EDHP 4998	3
EDHP 3330	3		
		Total	23

Total Credit Hours Required	Credit Hours
	120

Non-Coursework Requirement
Certificate from the Red Cross verifying CPR and First Aid Training (Credit in a First Aid course from a college or university is also acceptable).
2.2 GPA is required for graduation

- "C" or better required
- Select from ECON, GEOG, POLI, PSYC or SOC. Check General Education Courses to confirm what courses fulfill this requirement
- FTA (theatre/dance/film related course, FA or MUS). Check General Education Courses to confirm what courses fulfill this requirement

Recommended Four-Year Plan of Study  
 Bachelor of Science in Human Performance and Health Promotion  
 Exercise Physiology Concentration

Four Year Plan of Study			
First Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ENGL 1157	3	ENGL 1158 or 1159	3
MATH 1115 or 1031	3	MATH 1116 or 1032	3
BIOS 1313	3	BIOS 1301	3
BIOS 1311	1	BIOS 1303	1
EDHS 1110	3	EDHP 2110	3
Elective	3	Elective	3
UNIV 1001 <sup>4</sup>	1		
Total Hours	17	Total Hours	16

Second Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
CHEM 1017	3	PHYS 1031	3
CHEM 1007	1	PHYS 1033	1
ENGL Literature	3	Social Sciences <sup>2</sup>	3
Social Sciences <sup>1</sup>	3	EDHS 4202	3
EDHP 2170	3	EDHP/EDHS Elective 2000+	3
Elective	3	Elective	3
Total Hours	16	Total Hours	16

Third Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
Arts <sup>2</sup>	3	Humanities <sup>1</sup>	3
Social Sciences	3	EDHS 4111	3
EDHS 4301	3	EDHS/PHIL 4200	3
EDHP/EDHS Elective 2000+	3	EDHP/EDHS Elective 4000+	3
Elective	3	Elective	3
Total Hours	15	Total Hours	15

Fourth Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
Humanities <sup>3</sup>	3	EDHS 4110	3
EDHS 4302	3	EDHS 4998	3
EDHS 4706	3	EDHP/EDHS Elective 4000+	3
EDHP/EDHS Elective 4000+	3	Elective	3
EDHP/EDHS Elective 4000+	3		
Total Hours	15	Total Hours	12
Total Degree Hours			121

1. Social Science (ANTH ECON, GEOG, POLI, PSYC, or SOC). Check General Education Courses to confirm what courses fulfill this requirement
2. Arts FTA (theatre/dance/film related courses), FA or MUS: all courses. Check General Education Courses to confirm what courses fulfill this requirement
3. Humanities (FTA, ENGL, Foreign Languages, HIST, PHIL or WGS). Check General Education Courses to confirm what courses fulfill this requirement
4. Required for all first-time full-time students.

### Curriculum in Human Performance and Health Promotion

#### Bachelor of Science in Human Performance and Health Promotion

#### Health Promotion Concentration

General Education Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
English		Physical Sciences (CHEM, EES, or PHYS)	3
ENGL 1157	3	Humanities	
ENGL 1158 or 1159 <sup>1</sup>	3	Humanities (FTA, ENGL, Foreign Languages, HIST, PHIL, WGS)	6
Mathematics		ENGL Literature	3
MATH 1115 or 1031	3	Social Sciences	
MATH 1116 or 1032	3	Social Sciences elective <sup>2</sup>	6
Science		Arts	
BIOS 1303	3	Arts elective <sup>3</sup>	3
BIOS Elective	3		
		Total	39

#### Other Requirements

Course Name/ #	Credit Hours	Course Name/#	Credit Hours
BIOS 1301	1	Physical Sciences (CHEM, EES or PHYS)	3
Social Sciences (ANTH, ECON, GEOG, POLI, PSYC, or SOC)	3	Physical Sciences Lab (CHEM, EES or PHYS)	2
Electives	21		
		Total	30

#### Course Requirements for Major

Course Name/ #	Credit Hours	Course Name/#	Credit Hours
EDHP 2110	3	EDHS 4200/PHIL 4200	3
EDHP 2170	3	EDHP/EDHS Electives 2000+	6
EDHS 1110	3	EDHP/EDHS Electives 4000+	12
		Total	30

#### Concentration Requirements

Course Name/ #	Credit Hours	Course Name/#	Credit Hours
EDHS 4110	3	EDHS 4302	3
EDHS 4111	3	EDHS 4706	3
EDHS 4202	3	EDHS 4998	3
EDHS 4301	3		
		Total	21

Total Credit Hours Required	Credit Hours
	120

#### Non-Coursework

2.2 GPA is required for graduation

- "C" or better required
- Select from ECON, GEOG, POLI, PSYC or SOC. Check General Education Courses to confirm what courses fulfill this requirement.
- FTA (theatre/dance/film related course, FA or MUS). Check General Education Courses to confirm what courses fulfill this requirement

#### Recommended Four-Year Plan of Study

Bachelor of Science in Human Performance and Health Promotion  
Health Promotion Concentration

Four Year Plan of Study			
First Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ENGL 1157	3	ENGL 1158 or 1159	3
MATH 1115 or 1031	3	MATH 1116 or 1032	3
BIOS Elective	3	BIOS 1301	3
EDHS 1110	3	BIOS 1303	1
Elective	3	EDHP 2110	3
UNIV 1001 <sup>4</sup>	1	Elective	3
<b>Total Hours</b>	<b>16</b>	<b>Total Hours</b>	<b>16</b>

Second Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
Physical Science	4	Physical Science	4
ENGL Literature <sup>1</sup>	3	Social Sciences <sup>2</sup>	3
Social Sciences <sup>2</sup>	3	EDHS 4202	3
EDHP 2170	3	HP/HS Elective 2000+	3
Elective	3	Elective	3
<b>Total Hours</b>	<b>16</b>	<b>Total Hours</b>	<b>16</b>

Third Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
Arts <sup>3</sup>	3	Humanities <sup>1</sup>	3
Social Sciences	3	EDHS 4111	3
EDHS 4301	3	EDHS/PHIL 4200	3
EDHP/EDHS Elective 2000+	3	EDHP/EDHS Elective 4000+	3
Elective	3	Elective	3
<b>Total Hours</b>	<b>15</b>	<b>Total Hours</b>	<b>15</b>

Fourth Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
Humanities <sup>1</sup>	3	EDHS 4110	3

EDHS 4302	3	EDHS 4998	3
EDHS 4706	3	EDHP/EDHS Elective 4000+	3
EDHP/EDHS Elective 4000+	3	Elective	3
EDHP/EDHS Elective 4000+	3		
Total Hours	15	Total Hours	12
Total Degree Hours			121

1. Humanities (FTA, ENGL, Foreign Languages, HIST, PHIL or WGS)
2. Social Science (ANTH ECON, GEOG, POLI, PSYC, or SOC).
3. Arts FTA (theatre/dance/film related courses), FA or MUS: all courses
4. Required for all first-time full-time students.

## Graduate Alternate Certification Pathway

Two options for obtaining teacher certification are offered at the graduate level. The Master of Arts in Teaching (MAT) degree is designed to offer candidates with a bachelor degree outside the field of education an opportunity to address the requirements of an initial level teaching certificate within a Master's degree program. The Graduate Alternate certification program is designed to provide all of the coursework and experiences necessary to obtain Louisiana certification without pursuing an academic degree. (The Non-degree Graduate program option only available to Secondary Minor candidate continuing as a graduate student to complete certification requirements.)

### Master of Arts in Teaching

Programs of Study: Two Master of Arts in Teaching (MAT) are offered. The Masters of Arts in Teaching in Curriculum and Instruction offers certification in elementary (grades 1-5), middle grades (grades 4-8) in English, math, science, and social studies and secondary (grades 6-12) in English, math, social studies, biology, chemistry, earth science, general science, and physics.

The Master of Arts in Teaching in Special Education offers certification in deaf/hard of hearing (grades 1-12), early intervention (birth – age 5), significant disabilities (grades 1-12) and mild/moderate disabilities (grades 1-5, 4-8 and 6-12). The mild/moderate disabilities certification is offered through an Integrated to Merged program which results in certification in mild/moderate disabilities and in elementary (grades 1-5), middle grades (grades 4-8), or secondary education (grades 6-12). Note that certification in middle school and secondary is specific to one content area.

The Master of Arts in Teaching program requires 36-39 graduate credit hours in the following areas: learner and the learning environment, teaching methodology, literacy, research, and internship/student teaching. Details of the program of study for each certification option may be found at the college website at [www.uno.edu/coehd](http://www.uno.edu/coehd).

Admission: In addition to the admission requirements established by the Graduate School which include an overall grade point average of 2.5 and a satisfactory score on the Graduate Record Examination (GRE), candidates must achieve passing scores on PRAXIS I as well as the relevant PRAXIS II subject assessment. PRAXIS I is not required for candidates with an ACT composite score of 22, an SAT (verbal and math) score of 1030, or who already have a Master's degree. The College office must have official scores. All candidates must submit official transcripts from each college and university attended. One transcript with all transfer credits is not acceptable. All initial advising for this program occurs via the College of Education and Human Development Academic Counselors. Following initial advising, candidates are advised by a Faculty Advisor in the Department of Curriculum and Instruction or the Department of Special Education and Habilitative Services for the duration of their program of study.

### Field Experience Requirements

Throughout the program, candidates complete field activities in school and classroom settings. Field work is supported in two ways: through assigned work associated with individual classes and within a student teaching (9 credits) or internship (6 credits) experience taken at the end of the program of study. Field

experience opportunities support candidates in meeting all national and state standards associated with their certification area. The program includes specific requirements for the number and type of field experience hours that must be completed as well as for the development of an electronic portfolio that aligns artifacts resulting from field work with specific professional standards. More information on field experience requirements may be found at the college website at [www.uno.edu/coehd](http://www.uno.edu/coehd).

### **Requirements for Completing Program**

All certification programs in the College of Education and Human Development are performance-based. Candidates develop a professional portfolio to document the knowledge, skills, and dispositions associated with effective teaching. Completion of the program of study requires successful performance in coursework, field experience, and candidate assessments specific to the area of study. In addition to assessments associated with specific courses in the program, candidates must pass a final assessment to complete the program and be recommended for a teaching certificate. More information on candidate assessment and program progression requirements may be found at the college website at [www.uno.edu/coehd](http://www.uno.edu/coehd).

### **Louisiana Teacher Certification**

Candidates who successfully complete all program requirements are recommended to the Louisiana Department of Education for a teaching certificate. All conditions listed above under "Louisiana Teacher Certification" must be satisfied. Candidates enrolled in this program while teaching may be eligible for a Practitioner License upon recommendation by the hiring school district.

### **Graduate Non-Degree Alternate Certification Only Certification Areas Offered**

Certification areas include: Secondary (grades 6-12) in a specific content area. The secondary education program is only open to UNO graduates who completed the Minor in Secondary Education without completing the Student Teaching requirement. Secondary content areas include: English, mathematics, social studies, and science (Biology, Chemistry, Earth Science, General Science, and Physics).

Specific requirements for the Graduate Non-Degree Certification program are available in the College of Education and Human Development Office.

### **PRAXIS Requirements for All Teacher Education Candidates**

All candidates pursuing initial teaching certification must successfully pass three types of PRAXIS examinations prior to program completion and recommendation for certification. The point in time that the candidate takes each examination varies according to the certification program option pursued. The following describes when each PRAXIS test is taken:

#### **PRAXIS I PPST**

Undergraduate Program: Must be passed prior to Admission to Tier III (Teacher Education Program)

Graduate Alternate Certification (Master of Arts in Teaching and Non-Degree): Must be passed prior to admission to the program

#### **PRAXIS II**

Undergraduate Program: Content Area taken must be passed prior to Tier IV (Student Teaching)

Graduate Alternate Certification (Master of Arts in Teaching and Non-Degree): Must be passed prior to admission to the program

#### **PRAXIS II**

Principles of Learning and Teaching

Undergraduate Program: Must be passed prior to Tier IV (Student Teaching)

Graduate Alternate Certification (Master of Arts in Teaching and Non-Degree): Must be passed prior to student teaching or internship.

### **Add-On Certification Option**

The College of Education and Human Development offers several programs of study that result in an

additional area of certification. These programs are designed for candidates who already hold a current Louisiana Teaching Certificate. More information on these programs of study may be found at the college website [www.uno.edu/coehd](http://www.uno.edu/coehd).



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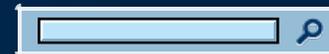


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# College of Liberal Arts

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## Department of English

### Student Learning Outcomes

[College of Liberal Arts](#)
[Bachelor of Arts in English](#)

1. Students will develop a broad knowledge of British and American literary history.
2. Students will develop effective skills in research and literary analysis.
3. Students will develop advanced writing skills.

### Degree Requirements

[College of Liberal Arts](#)
[Bachelor of Arts in English](#)

#### General Education Requirements

Course Name/ #	Credit Hours	Course Name/#	Credit Hours
English		Humanities	
ENGL 1157	3	FORL 1001	3
ENGL 1158 or 1159 <sup>1</sup>	3	FORL 1002	3
Mathematics		ENGL 2031	3
MATH 1031, 1115, 1125 or higher	3	Social Sciences	
MATH 1032, 1116, 1126 or higher	3	Social Sciences <sup>2</sup>	6
Science		Arts	
BIOS <sup>3</sup>	3	Arts Elective <sup>4</sup>	3
BIOS or Physical Science <sup>3</sup>	6		
		Total	39

#### Other Requirements

Course Name/ #	Credit Hours	Course Name/#	Credit Hours
Social Science 2000+	6	Foreign Language 2001/1001	3
Electives outside of ENGL and JOUR 3000+	6	Foreign Language 1002	(3) <sup>5</sup>
Electives	21-24	History	6
		Total	45

#### Course Requirements for Major

Course Name/ #	Credit Hours	Course Name/#	Credit Hours
ENGL 2032	3	4000-level American Lit <sup>9</sup>	3
ENGL 2258 <sup>8</sup>	3	4000-level Pre-1660 British Lit <sup>10</sup>	3
ENGL 2341	3	4000-level Post-1660 British Lit <sup>11</sup>	3
ENGL 2342	3	English Electives 3000-4000 level <sup>12</sup>	12
ENGL 3394	3		
		Total	36

Professional Writing Concentration		Journalism Concentration	
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
ENGL 2155	3	JOUR 2700	3
4000-level English Writing or JOUR	9	JOUR 4700	3
		4000-level JOUR or ENGL 4155	6
Total	12	Total	12

Pre-Law Concentration		Creative Writing Concentration	
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
ENGL 2155 or 2151	3	ENGL 2154, 2161, or 2163	3
ENGL 4158	3	ENGL 4154, 4161, or 4163 <sup>6</sup>	6
4000-level English or JOUR 4700	6	4000-level Literature	3
Total	12	Total	12

New Orleans Regional Literatures Concentration	
Course Name/ #	Credit Hours
ENGL 4043	3
ENGL 4045	3

4000-level Literature <sup>7</sup>	6
Total	12

Total Credit Hours Required	Credit Hours
	120

- "C" or better required
- Must include courses from two different fields (ANTH , ECON , GEOG , POLI , PSYC , SOC , or URBN ) and at least 6 hours at 2000-level or higher.
- 6 hour sequence in one science. Select from BIOS, CHEM, EES, PHYS. 3 hours must be BIOS. Check General Education Courses to confirm courses fulfilling this requirement
- From FA, MUS, theater or film/video-related FTA. Check General Education Courses to confirm courses fulfilling this requirement
- Must complete nine credit hours in one language or six credit hours in two languages.
- Students should take workshops in the same genre, 2 at 4000 level.
- Courses should focus on New Orleans or associate regions. Students may substitute ENGL 2043 for one 4000-level Lit.
- Satisfies College requirement of oral competency.
- American Literature: ENGL 4030, 4031, 4032, 4033, 4034, 4045, 4091, 4092, or 4391
- British Literature before 1660: ENGL 4401, 4421, 4501, 4516, 4521, 4522, 4601, 4616, 4621, or approved 4391
- British Literature after 1660: ENGL 4701, 4702, 4715, 4716, 4801, 4802, 4807, 4808, 4815, or approved 4391
- This requirement is waived for students who complete a 12-hour concentration (Professional Writing, Journalism, Pre-Law, Creative Writing, and New Orleans Regional Literatures).

### Recommended Four-Year Plan of Study

#### College of Liberal Arts Bachelor of Arts in English

Four Year Plan of Study			
First Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ENGL 1157	3	ENGL 1158 or 1159	3
MATH 1031, 1115, 1125 or higher	3	MATH 1032, 1116, 1126 or higher	3
Foreign Language 1001	3	Foreign Language 1002	3
Social Science	3	Social Science	3
Science (BIOS)	3	Science (BIOS or Physical Science)	3
UNIV 1001 <sup>1</sup>	1		
Total Hours	16	Total Hours	15

Second Year of Enrollment	

First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ENGL 2258	3	ENGL 2032	3
ENGL 2031	3	ENGL 2341	3
FORL 2001	3	Social Science (2000 level)	3
Social Science (2000 level)	3	Arts	3
Science (BIOS or Physical Science)	3	Humanities (History)	3
		Elective (Outside English, 3000+)	3
<b>Total Hours</b>	<b>15</b>	<b>Total Hours</b>	<b>18</b>

Third Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ENGL 2342	3	ENGL 4XXX (Brit Lit I)	3
ENGL 3394	3	ENGL 4XXX (Brit Lit II)	3
ENGL 4XXX (American Lit)	3	ENGL 4XXX (Elective or Concentration)	3
Humanities (History)	3	Elective	3
Elective (Outside English, 3000+)	3	Elective	2
<b>Total Hours</b>	<b>15</b>	<b>Total Hours</b>	<b>14</b>

Fourth Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ENGL 4XXX (Elective or Concentration)	3	ENGL 4XXX (Elective or Concentration)	3
Elective	3	ENGL 4XXX (Elective or Concentration)	3
Elective	3	Elective	3
Elective	3	Elective (ENGL 2392 or 4392; Independent Work for variable credit)	3
Elective	3		
<b>Total Hours</b>	<b>15</b>	<b>Total Hours</b>	<b>12</b>
<b>Total Degree Hours</b>			<b>120</b>

1. Required for all first-time full-time students.

[Honors in English](#)

Available to qualified majors and non-majors, and open (but not limited) to students enrolled in University Honors. The UNO Honors Program requires a minimum ACT composite score of 30 or a minimum SAT score of 1350 for admittance. The grade point minimum for transfer and continuing students is 3.50.

### Honors in English for English Majors

To graduate with honors in English, English majors must:

1. Fulfill the usual requirement for English majors.
2. Maintain a minimum cumulative grade point average of 3.5 in English and 3.50 overall.
3. Complete a minimum of nine semester hours in honors courses, which may include English 2199, 2299, and 2399.
4. Successfully complete a six-hour thesis. With consent of the chair of the Department of English and the director of the University Honors Program, three hours of related course work taken prior to registration in English 3399 (Honors Thesis) may be counted toward the thesis.
5. Perform satisfactorily in an oral examination on a senior thesis.

### Honors in English for Non-Majors

To graduate With Honors in English, students not majoring in English must:

1. Maintain a minimum cumulative grade point average of 3.5 in English courses and 3.50 overall.
2. Complete a minimum of 12 semester hours in English courses approved by the department. At least six of the 12 hours must be in courses numbered 3000 or above.
3. Complete a minimum of nine semester hours in honors courses, which may include English 2199, 2299, and 2399.
4. Successfully complete a six-hour thesis. With consent of the chair of the Department of English and the director of the University Honors Program, three hours of related coursework taken prior to registration in English 3399 (Honors Thesis) may be counted toward the thesis.
5. Perform satisfactorily in an oral examination on a senior thesis.

### Minor in English

Eighteen hours in English tailored to the needs of the student as approved by the Coordinator of Undergraduate English:

1. Six hours of English department literature courses numbered 2000 or above.
2. Twelve additional hours of English or Journalism courses numbered 2000 or above, nine of which must be at the 3000- or 4000-level.
3. A minimum grade of C in each course taken for the Minor.

## Department of Film and Theatre Arts

### Film Arts, Theatre Arts and Writing for Production

The Bachelor of Arts housed in the Department of Film and Theatre allows for a choice of three different courses of study—Film Arts, Theatre Arts or Writing for Production.

### Student Learning Outcomes

#### College of Liberal Arts

#### Bachelor of Arts in Film and Theatre - Film Arts

1. Film Arts students should have a fundamental knowledge of film production.
2. Film Arts students must have a fundamental understanding of film aesthetics and theory.
3. Provide exceptional Film Arts students with assistance and encouragement to pursue opportunities for advanced degrees and/or professional careers.
4. Department will maintain a high level of satisfaction with the overall Film Arts program.

## Degree Requirements

## College of Liberal Arts

## Bachelor of Arts in Film and Theatre - Film Arts

General Education Requirements			
Course Name#	Credit Hours	Course Name #	Credit Hours
English		Humanities	
ENGL 1157	3	FORL 1001	3
ENGL 1158 or 1159 <sup>1</sup>	3	FORL 1002	3
Mathematics		ENGL Literature	3
MATH 1031, 1115, 1125 or higher	3	Social Sciences	
MATH 1032, 1116, 1126 or higher	3	Social Sciences <sup>2</sup>	6
Science		Arts	
BIOS <sup>3</sup>	3	Arts Elective <sup>4</sup>	3
BIOS or Physical Science <sup>3</sup>	6		
		Total	39

Other Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
Social Science	6	FORL 2001/1001	3
Electives outside of major 3000+	6	FORL 1002	(3) <sup>5</sup>
Electives	16-19	ENGL Literature	6
		Total	37

Course Requirements for Major			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
FTA 1620	3	FTA 4540 or 4541	3
FTA 2250, 2260, or 2320	3	FTA 4545 <sup>6</sup>	3
FTA 2510	3	FTA 2570 <sup>6</sup> , 3460, 3510 <sup>7</sup> , 3520, 4566, 4580 <sup>6</sup> , 4600	6
FTA 2565	3	FTA Electives <sup>8</sup>	20
		Total	44

Total Credit Hours Required	Credit Hours
	120

1. "C" or better required
2. Must include courses from two different fields ( ANTH , ECON , GEOG , POLI , PSYC , SOC , or URBN ) and at least 6 hours at 2000-level or higher. Check General Education Courses to confirm courses fulfilling this requirement
3. 6 hour sequence in one science. Select from BIOS, CHEM, EES, PHYS. 3 hours must be BIOS. Check General Education Courses to confirm courses fulfilling this requirement
4. From FA, MUS, theater or film/video-related FTA. Check General Education Courses to confirm what courses fulfill this requirement
5. Must complete nine credit hours in one language or six credit hours in two languages
6. Fulfills oral competency
7. Must take concurrently with FTCA 3511
8. Select from FTCA 2250, 2260, 2270, 2320(fulfills oral competency), 2335, 2800 (1 hr.), 3460, 3510, 3511 (1 hr.), 3520, 3800 (1 hr.), 4096, 4251, 4333, 4460, 4500, 4530, 4550, 4551 (1 hr.), 4555, 4565, 4566, 4567, 4568, 4570, 4575, 4580, 4591, 4600, 4900

### Recommended Four-Year Plan of Study

#### College of Liberal Arts

#### Bachelor of Arts in Film and Theatre - Film Arts

Four Year Plan of Study			
First Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ENGL 1157	3	ENGL 1158 or 1159	3
FTA 1620	3	FTA 2510	3
MATH	3	MATH	3
Foreign Language	3	Foreign Language	3
Social Science	3	BIOS	3
UNIV 1001 <sup>1</sup>	1		
<b>Total Hours</b>	<b>16</b>	<b>Total Hours</b>	<b>15</b>

Second Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
FTA 2565	3	FTA 2250 or 2260 or 2320	3
Foreign Language	3	ENGL Lit Elective	3
ENGL Lit Elective	3	Physical Science	3
Social Science	3	FTA Electives	4
FTA Elective	3	Social Science	3
<b>Total Hours</b>	<b>15</b>	<b>Total Hours</b>	<b>16</b>

Third Year of Enrollment			
First Term		Second Term	

Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
FTA 4540 or 4545	3	FTA 4541 or 4545	3
Social Science	3	FTA Electives	3
FTA Electives	4	Non-FTA Elective	3
Non-FTA Elective	3	General Electives	7
General Elective	3		
<b>Total Hours</b>	<b>16</b>	<b>Total Hours</b>	<b>16</b>

Fourth Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
FTA Electives	6	FTA Elective	6
General Electives	9	General Electives	5
<b>Total Hours</b>	<b>15</b>	<b>Total Hours</b>	<b>11</b>
<b>Total Degree Hours</b>			<b>120</b>

1. Required for all first-time full-time students.

### Student Learning Outcomes

#### College of Liberal Arts

#### Bachelor of Arts in Film and Theatre ? Theatre Arts

1. Theatre Arts students will have a basic skill level in technical areas of theatre.
2. Theatre Arts students will have a basic understanding of theatre literature.
3. Theatre Arts students will have a basic understanding of theatre performance.
4. Department will maintain a high level of satisfaction with the overall Theatre Arts program.

### Degree Requirements

#### College of Liberal Arts

#### Bachelor of Arts in Film and Theatre - Theatre Arts

General Education Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
English		Humanities	
ENGL 1157	3	FORL 1001	3
ENGL 1158 or 1159 <sup>1</sup>	3	FORL 1002	3
Mathematics		ENGL Literature	3
MATH 1031, 1115, 1125 or higher	3	Social Sciences	
MATH 1032, 1116, 1126 or higher	3	Social Sciences <sup>2</sup>	6
Science		Arts <sup>4</sup>	
<b>3</b>			

BIOS	3	FTA 1005	3
BIOS or Physical Science <sup>3</sup>	6		
		Total	39

Other Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
Social Science	6	FORL 2001/1001	3
Electives outside of major 3000+	6	FORL 1002	(3) <sup>5</sup>
Electives	19-22	ENGL Literature	3
		Total	37

Course Requirements for Major			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
FTA 1100	3	FTA 2320	3
FTA 1110	3	FTA 4400	3
FTA 1300	3	FTA 4450 or 4455	3
FTA 1800 (1)	3	FTA Electives	20
FTA 2100 or 2110 or 2160 or 2380 <sup>6</sup>	3		
		Total	44

Total Credit Hours Required	Credit Hours
	120

- "C" or better required
- Must include courses from two different fields (ANTH, ECON, GEOG, POLI, PSYC, SOC, or URBN) and at least 6 hours at 2000-level or higher.
- 6 hour sequence in one science. Select from BIOS, CHEM, EES, PHYS. 3 hours must be BIOS.
- From FA, MUS, theater or film/video-related FTA.
- Must complete nine credit hours in one language or six credit hours in two languages
- Fulfills oral competency requirement

#### Recommended Four-Year Plan of Study

College of Liberal Arts

Bachelor of Arts in Film and Theatre - Theatre Arts

Four Year Plan of Study			
First Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours

ENGL 1157	3	ENGL 1158 or 1159	3
MATH 1031, 1115, or 1125	3	MATH 1032, 1116, or 1125	3
BIOS	3	Bios or other Physical Science	3
Social Science 1XXX	3	FTA 1100	3
FTA 1005	3	FTA 1110	3
UNIV 1001 <sup>1</sup>	1		
<b>Total Hours</b>	<b>16</b>	<b>Total Hours</b>	<b>15</b>

### Second Year of Enrollment

First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
Foreign Language 1001	3	Foreign Language 1002	3
Social Science 1XXX	3	Social Science 2000+	3
Arts	3	BIOS or Other Physical Science	3
FTA 1300	3	ENGL (Literature)	2
FTA 2100, 2110, 2160, or 2380	3	FTA 1800	1
FTA 1800	1	FTA 2320	3
<b>Total Hours</b>	<b>16</b>	<b>Total Hours</b>	<b>16</b>

### Third Year of Enrollment

First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
Foreign Language 2001	3	Non FTA elective 3000+	3
Social Science 2000+	3	General Elective	3
Non FTA Elective 3000+	3	General Elective	3
FTA Elective	3	FTA Elective	3
FTA 4450 or 4455	3	FTA 4400	3
FTA 1800	1		
<b>Total Hours</b>	<b>16</b>	<b>Total Hours</b>	<b>15</b>

### Fourth Year of Enrollment

First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
FTA Electives	6	FTA Elective	9
General Electives	9	General Electives	2
<b>Total Hours</b>	<b>15</b>	<b>Total Hours</b>	<b>11</b>

Total Degree Hours

120

1. Required for all first-time full-time students.

### Student Learning Outcomes

#### College of Liberal Arts

#### Bachelor of Arts in Film and Theatre - Writing for Production

1. Writing for Production students will have a basic understanding of both Film and Theatre.
2. Writing for Production students will have a basic understanding of creative writing expression.
3. Writing for Production students will have advanced work recognized.
4. Department will maintain a high level of satisfaction with the overall Writing for Production program.

### Degree Requirements

#### College of Liberal Arts

#### Bachelor of Arts in Film and Theatre - Writing for Production

General Education Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
English		Humanities	
ENGL 1157	3	FORL 1001	3
ENGL 1158 or 1159 <sup>1</sup>	3	FORL 1002	3
Mathematics		ENGL Literature	3
MATH 1031, 1115, 1125 or higher	3	Social Sciences	
MATH 1032, 1116, 1126 or higher	3	Social Sciences <sup>2</sup>	6
Science		Arts	
BIOS <sup>3</sup>	3	Arts Elective <sup>4</sup>	3
BIOS or Physical Science <sup>3</sup>	6		
		Total	39

Other Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
Social Science	6	FORL 2001/1001	3
Electives outside of major 3000+	6	FORL 1002	(3) <sup>5</sup>
Electives	16-19	ENGL Literature	6
		Total	37

Course Requirements for Major			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours

FTA 1005	3	FTA 4200 or 4251	3
FTA 1620	3	FTA 4400, 4450, or 4455	3
FTA 1800	1	FTA 4540, 4541, 4545, or 4591	3
FTA 2320 <sup>6</sup>	3	FTA 2200, 2250, 2260, 2270 (select two)	6
FTA 4551	1	FTA Electives	18
		Total	44

Total Credit Hours Required	Credit Hours
	120

- "C" or better required
- Must include courses from two different fields ( ANTH , ECON , GEOG , POLI , PSYC , SOC , or URBN ) and at least 6 hours at 2000-level or higher. Check General Education Courses to confirm what courses fulfill this requirement.
- 6 hour sequence in one science. Select from BIOS, CHEM, EES, PHYS. 3 hours must be BIOS. Check General Education Courses to confirm courses fulfilling this requirement
- From FA, MUS, theater or film/video-related FTA. Check General Education Courses to confirm courses fulfilling this requirement.
- Must complete nine credit hours in one language or six credit hours in two languages.
- Fulfills oral competency requirement.

#### Recommended Four-Year Plan of Study

##### College of Liberal Arts

##### Bachelor of Arts in Film and Theatre - Writing For Production

Four Year Plan of Study			
First Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ENGL 1157	3	ENGL 1158 or 1159	3
MATH 1031, 1115, or 1125	3	MATH 1032, 1116, or 1126	3
BIOS	3	BIOS or other Physical Science	3
Social Science 1XXX	3	FTA 1005	3
FTA 1620	3	FTA 1800	3
UNIV 1001 <sup>1</sup>	1		
Total Hours	16	Total Hours	15

Second Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
FORL 1001	3	FORL 1002	3

Social Science 1XXX	3	Social Science 2000+	3
Arts	3	BIOS or other Physical Science	3
FTA 2320	3	ENGL Literature	3
FTA 2200, 2250, 2270 (choose one)	3	FTA 4400, 4545, 4455 (Choose one)	3
FTA 2800	1		
<b>Total Hours</b>	<b>16</b>	<b>Total Hours</b>	<b>15</b>

Third Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
FORL 2001	3	Non FTA Elective 3000+	3
Social Science 2000+	3	General Elective	3
Non FTA Elective 3000+	3	General Elective	3
CSCI 1000	3	FTA Elective	3
FTA 4540, 4545, 4591 (Choose one)	3	FTA Elective	3
<b>Total Hours</b>	<b>15</b>	<b>Total Hours</b>	<b>15</b>

Fourth Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
FTA Elective	3	FTA Elective	3
FTA Elective	3	FTA Elective	3
General Elective	3	FTA Elective	3
General Elective	3	General Elective	3
General Elective	3	General Elective	1
<b>Total Hours</b>	<b>15</b>	<b>Total Hours</b>	<b>13</b>
<b>Total Degree Hours</b>			<b>120</b>

1. Required for all first-time full-time students.

#### Minor in Film and Theatre

Students must complete the following requirements for a Minor in Film and Theatre:

1. A minimum of 14 credit hours with a grade of C or better in the following courses:
  - Film and Theatre Arts 1005
  - Film and Theatre Arts 1620
  - Film and Theatre Arts 1800(1) and/or (1-2)
  - Film and Theatre Arts 4400
  - Film and Theatre Arts 4540

- An additional six hours selected from Film, Theatre, and Communication Arts courses numbered 2000 or above.

### Honors in Film and Theatre

The UNO Honors Program requires a minimum ACT composite score of 30 or a minimum SAT score of 1350 for admittance. The grade point minimum for transfer and continuing students is 3.50. Students wishing to graduate with honors in Film and Theatre Arts must meet the following requirements:

- A cumulative grade-point average of 3.5 in all Film and Theatre Arts courses taken and a cumulative overall grade-point average of 3.50.
- Completion of Film and Theatre Arts 3099 (Senior Honors Thesis) for six credits, in addition to the usual course requirements for the degree.
- Satisfactory performance in an oral examination defending the thesis before a committee composed of the thesis director, a representative of the Honors Program, and one other faculty member of the Department of Film and Theatre Arts.

## Department of Fine Arts

### Student Learning Outcomes

#### College of Liberal Arts

#### Bachelor of Arts in Fine Arts

- Students will acquire a broad foundation in critical anthropological thinking, as well as knowledge of the history of the discipline.
- Students will acquire knowledge of and experience in anthropological research methods.
- Students will be able to communicate, in oral and written forms, on subjects of anthropological significance.
- Students will be able to competently explain how anthropological theory and methods can be used in applied contexts.

### Degree Requirements

#### College of Liberal Arts

#### Bachelor of Arts in Fine Arts

General Education Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
English		Humanities	
ENGL 1157	3	FORL 1001	3
ENGL 1158 or 1159 <sup>1</sup>	3	FORL 1002	3
Mathematics		ENGL Literature	3
MATH 1031, 1115, 1125, or higher	3	Social Sciences	
MATH 1032, 1116, 1126, or higher	3	Social Sciences <sup>2</sup>	6
Science		Arts	
BIOS <sup>3</sup>	3	FA 1050	3
BIOS or Physical Sciences <sup>3</sup>	6		
		Total	39

Other Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
Social Sciences 2000+	6	FORL 2001/1001 <sup>4</sup>	3
Electives outside of major 3000+	6	FORL 1002/2002	(3) <sup>4</sup>
Electives outside of major 3000+ (Arts History)	21-24	General Electives <sup>10</sup>	12-18
		Total	30-33

Course Requirements for Major			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
FA 1051	3	FA 2202	3
FA 1060	3	FA 2203	3
FA 2201	3		
		Total	18

Studio Arts Option			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
FA 2450, 2550, 2650, 2750, 2850 (Choose three) <sup>7</sup>	9	FA Option (One Area) <sup>8</sup>	9
FA 4599	3	FA 1061	3
Fine Arts History 3000+	6		
		Total	30

Arts History Option			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
FA 4299 <sup>9</sup>	3	Fine Arts History 3000+ <sup>6</sup>	27
FA Studio (2450, 2550, 2650, 2750, or 2850)	3		
		Total	33

Total Credit Hours Required	Credit Hours
	120

- "C" or better required
- Must include courses from two different fields (ANTH, ECON, GEOG, POLI, PSYC, SOC, or URBN) and at

least 6 hours at 2000-level or higher. Check General Education Courses to confirm courses fulfilling this requirement.

3. 6 hour sequence in one science. Select from BIOS, CHEM, EES, PHYS. 3 hours must be BIOS. Check General Education Courses to confirm courses fulfilling this requirement.
4. Studio Art majors must complete nine credit hours in one language or six credit hours in two languages. Art History majors must complete 12 credit hours in one language.
5. 27 hours in art history courses at the 3000 level or above. These course should at least include:
  1. 2 courses Pre-1900
  2. 2 courses Modern and Contemporary art
6. Three out of five courses must be taken, one of which must be the introductory course in the chosen area of specialization (Fine Arts Option)
7. Three courses in advanced studio practice (3000-level) in the chosen area of specialization. Advanced studio courses in areas of concentration fulfill the College requirement for oral competency.
8. Art History majors may not register for FA 4299 before having completed at least 24 hours at the 3000 level or above. FA 4299 fulfills the College requirement for oral competency.
9. See General Course requirements and Approved Electives in Liberal Arts section. Studio Art majors will have 15-18 hours of electives depending on their choice of foreign language option. Art History majors will have 12 hours of electives.

### Student Learning Outcomes

#### College of Liberal Arts

#### B.A. in Fine Arts - Art History Option

1. Students will understand the basic chronology [major stylistic periods] of the history of western art, and identify [selected] works from major stylistic periods.
2. Students will understand and apply the broad methodologies of the study of the history of art: description, formal analysis, comparison, interpretation.
3. Students will demonstrate knowledge of the cultural issues, values, and perspectives that have informed art making in a variety of cultures and periods
4. Students will discuss and analyze secondary sources.
5. Students will develop critical research skills through a variety of writing assignments. Students will write an original argument that analyzes and interprets an aspect of art history, based on advanced research that integrates primary and secondary sources from the critical literature

### Recommended Four-Year Plan of Study

#### College of Liberal Arts

#### Bachelor of Arts in Fine Arts - Art History Option

Four Year Plan of Study			
First Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ENGL 1157	3	ENGL 1158 or 1159	3
MATH	3	MATH	3
Foreign Language - must be in one language	3	Foreign Language - must be in same language	3
FA 1050	3	FA 1051	3
FA 220X - Art History Survey	3	FA 220X - Art History Survey	3
UNIV 1001 <sup>1</sup>	1		
Total Hours	16	Total Hours	15

Second Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
FA 1060 - Drawing I	3	FA 2X50 - Intro Area	3
FA 220X - Art History Survey	3	FA 3000+ Art History (or 3292 - Internship)	3
FA 3000+ Art History (or 3291 - Internship)	3	FA 3000+ Art History	3
Foreign Language - must be in the same language	3	Foreign Language - must be in same language	3
BIOS	3	BIOS or other Science	3
Total Hours	15	Total Hours	15

Third Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
FA 3000+ Art History	3	FA 3000+ Art History	3
FA 3000+ Art History	3	FA 3000+ Art History	3
Science other than BIOS (must be same science as previous science other than BIOS)	3	Social Science, 2000 level <sup>2</sup>	3
Social Science, 1000 level <sup>2</sup>	3	3000 level elective <sup>3</sup>	3
Free Elective	3	Free Elective	3
Total Hours	15	Total Hours	15

Fourth Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
FA 3000+ Art History	3	FA 4299 - Senior Project	3
FA 3000+ Art History	3	Literature	3
Literature	3	Social Science, 2000 level <sup>2</sup>	3
Social Science, 1000 or 2000 level <sup>2</sup>	3	Free elective	3
3000 level elective <sup>3</sup>	3	Free elective	2
Total Hours	15	Total Hours	14
Total Degree Hours			120

1. Required for all first-time full-time students.
2. Social Science must be completed over at least two different areas (Anthropology, Economics, Geography, Political Science, Psychology, Sociology, or Urban Studies) and six credits must be at the 2000 level or above.
3. 3000 level electives cannot be in Fine Arts; only 3 credits of EDHP or EDHS courses may be used.

### Student Learning Outcomes

#### College of Liberal Arts

#### Bachelor of Arts in Fine Arts - Studio Arts Option

1. Students will demonstrate an understanding of art studio practices, concepts and theories, and critical understanding in at least one of the studio disciplines offered as a concentration. (Painting, Sculpture, Printmaking, Digital and Photography).
2. Students will demonstrate an understanding of the formal elements, processes, and critical issues in studio practice, particularly in their area of specialization. They must also demonstrate an awareness of the historical context of their creative work, particularly in their area of specialization.
3. Students finishing the degree program will produce a coherent body of creative work in their area of specialization, and for those graduates who show the ability and desire to pursue an advanced degree, the work should be of sufficient quality to satisfy the requirements for the admission to graduate school.
4. Students will participate in professional exhibition experience to prepare for a professional career.

### Recommended Four-Year Plan of Study

#### College of Liberal Arts

#### Bachelor of Arts in Fine Arts - Studio Arts Option

Four Year Plan of Study			
First Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ENGL 1157	3	ENGL 1158 or 1159	3
MATH	3	MATH	3
FORL 1001 - must be in one language	3	FORL - must be in same language	3
FA 1050	3	FA 1051	3
FA 1060	3	FA 1061	3
UNIV 1001 <sup>1</sup>	1		
Total Hours	16	Total Hours	15

Second Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
FA 2X50 - Intro Area (pick 1 of 5)	3	FA 2X50 - Intro Area (pick one of 5)	3
FA 2201, 2202, or 2203	3	FA 2X50 - Intro Area (pick one of 5)	3
Elective	3	FA 2201, 2202, or 2203	3
FORL - must be in the same language	3	Elective	3

BIOS	3	BIOS or other Science	3
Total Hours	15	Total Hours	15

Third Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
FA 3XXX - Advanced Studio Practice - One area of emphasis	3	FA 3XXX - Advanced Studio Practice - same area of emphasis	3
FA 2201, 2202, or 2203	3	FA 3000+ Art History	3
Literature	3	Social Science, 2000 level <sup>2</sup>	3
Social Science, 1000 level <sup>2</sup>	3	Literature	3
Non-BIOS Science (must be same science as other non-BIOS Science)	3	Free elective	3
Total Hours	15	Total Hours	15

Fourth Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
FA 3XXX - Advanced Studio Practice - same area of emphasis	3	FA 4599 - Senior Project	3
FA 3000+ Art History	3	Social Science, 2000 level <sup>2</sup>	3
3000 level elective <sup>3</sup>	3	Free elective	3
Social Science, 1000 or 2000 level <sup>2</sup>	3	Free elective	2
Free elective	3	3000 level elective <sup>3</sup>	3
Total Hours	15	Total Hours	14
Total Degree Hours			120

1. Required for all first-time full-time students.
2. Social Science must be completed over at least two different areas (Anthropology, Economics, Geography, Political Science, Psychology, Sociology, or Urban Studies) and six credits must be at the 2000 level or above.
3. 3000 level electives cannot be in Fine Arts; only 3 credits of EDHP or EDHS courses may be used.

#### Minors in Fine Arts

A Minor in Fine Arts, Studio Art Option, requires the student take a total of 18 credit hours in art studio courses including the following:

- Freshman and Sophomore Years-Fine Arts 1050 or 1051, 1060, and 1061.
- Junior Year-9 hours of studio art, 2000 level and above.

A letter grade of "C" or better must be earned in each course. The courses may be taken as elective credits at any point in the undergraduate curriculum provided the student adheres to prerequisites and course-level restrictions listed in the Catalog.

A Minor in Fine Arts, History Option, requires the student take a total of 18 credit hours in Art History courses including the following:

- Freshman Year-Fine Arts 1010.
- Sophomore Year-Fine Arts 2201, 2202.
- Junior and Senior Years-9 hours of art history at 3000 level and above.
- A letter grad of "C" or better must be earned in each course. The courses may be taken as elective credits at any point in the undergraduate curriculum provided the student adheres to prerequisites and course-level restrictions listed in the Catalog.
- Although Fine Arts 1010 is not a prerequisite to Fine Arts 2201 and 2202, it is suggested it be taken first to serve as an introduction to the vocabulary of artistic form.

#### Honors in Fine Arts Studio Option

The UNO Honors Program requires a minimum ACT composite score of 30 or a minimum SAT score of 1350 for admittance. The grade point minimum for transfer and continuing students is 3.50. Students wishing to graduate with honors in Fine Arts Studio Option must meet the following requirements.

1. A cumulative grade-point average of 3.5 in all Fine Arts courses taken and a cumulative grade-point average of 3.50.
2. Completion of six hours of FA 4599 (Senior Honors Thesis), in addition to the usual course requirements for the degree. Senior Honors Thesis will consist of an autonomous body of visual art supported by an expanded artist's statement.
3. Satisfactory performance defending the thesis before the thesis advisor, a representative of the honors program, and one other faculty member of the Department of Fine Arts.

#### Honors in Fine Arts-Art History Option

Students wishing to graduate with honors in Fine Arts-Art History Option must meet the following requirements.

1. A cumulative grade-point average of 3.5 in all Art History courses taken and a cumulative grade-point average of 3.50.
2. Completion of six hours of FA 4298 (Senior Honors Thesis), in addition to the usual course requirements for the degree. Senior Honors Thesis will consist of a research paper based on extended research.
3. Satisfactory performance defending the thesis before the thesis advisor, a representative of the honors program, and one other faculty member of the Department of Fine Arts.

## Department of History

### Student Learning Outcomes

#### College of Liberal Arts

#### Bachelor of Arts in History

1. History majors will demonstrate broad understanding of the history discipline by gaining a solid foundation in both US and World History.
2. Bachelor of Arts recipients will exhibit the skills necessary for historical analysis via written and oral narrative.
3. History majors will produce scholarly material by engaging with both primary and secondary sources.

### Degree Requirements

#### College of Liberal Arts

#### Bachelor of Arts in History

#### General Education Requirements

	Credit		Credit
--	--------	--	--------

Course Name/ #	Hours	Course Name/#	Hours
English		Humanities	
ENGL 1157	3	FORL 1001 <sup>5</sup>	3
ENGL 1158 or 1159 <sup>1</sup>	3	FORL 1002 <sup>5</sup>	3
Mathematics		Literature	3
MATH 1031, 1115, 1125 or higher	3	Social Sciences	
MATH 1032, 1116, 1126 or higher	3	Social Sciences Elective <sup>8</sup>	6
Science		Arts	
BIOS <sup>3</sup>	3	Arts Elective <sup>2</sup>	3
BIOS or Physical Science <sup>3</sup>	6		
		Total	39

Other Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
FORL 2001/1001 <sup>5</sup>	3	Non major Electives 3000+ level <sup>4</sup>	6
FORL 1002 <sup>5</sup>	3	Social Sciences Elective <sup>8</sup>	6
Literature	3	General Electives	21 or 24
		Total	45

Course Requirements for Major			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
HIST 1001	3	HIST Electives, any level <sup>6</sup>	6
HIST 1002	3	HIST Electives, 3000+ level	15
HIST 2501	3	HIST 4800 <sup>7</sup>	3
HIST 2502	3		
		Total	36

Total Credit Hours Required	Credit Hours
	120

- "C" or better required
- Check General Education Courses to confirm courses fulfilling this requirement.
- 6 hour sequence in one science. Select from BIOS, CHEM, EES, PHYS. 3 hours must be BIOS.
- Students can fulfill this requirement with courses from the subject areas listed as Liberal Arts Approved Electives, or by taking courses at the 3000+ level in social sciences or arts, thereby fulfilling two requirements at once. The application of a course to two requirements, however, does not reduce the total number of hours

required for graduation.

5. The nine hours of foreign language must be in the same language. Alternately, students may opt to take 12 hours in two foreign languages (six hours in each of two languages.) If the 12-hour option is chosen, students may reduce approved electives by three hours. Advanced courses in foreign language are recommended for students anticipating graduate study.
6. At least six hours of history electives must be from history courses with a geographical focus other than the United States.
7. This course satisfies the liberal arts oral competency requirement.
8. Must include two different social science subject areas and six hours at the 2000 level or above.

### Recommended Four-Year Plan of Study

#### College of Liberal Arts

#### Bachelor of Arts in History

Four Year Plan of Study			
First Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ENGL 1157	3	HIST 1002	3
HIST 1001	3	ENGL 1158 or 1159	3
MATH 1031	3	MATH 1032	3
Social Science	3	BIOS 1053 or 1063	3
Arts	3	HIST any level	3
UNIV 1001 <sup>1</sup>	1		
Total Hours	16	Total Hours	15

Second Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
HIST 2501	3	HIST 2502	3
ENGL Literature	3	ENGL Literature	3
Social Science	3	FORL 1002	3
FORL 1001	3	Physical Science	3
BIOS or Physical Science	3	HIST any level	3
Total Hours	15	Total Hours	15

Third Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
HIST any level	3	HIST 3000+	3
HIST 3000+	3	Upper-level non history	3
FORL 2001	3	Social Science 2000+	3

Electives	6	Electives	6
Total Hours	15	Total Hours	15

Fourth Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
HIST 3000+	3	HIST 3000+	3
Upper-level non history	3	HIST 4800	3
Social Science 2000+	3	Electives	5
Electives	6	Computer Literacy	3
Total Hours	15	Total Hours	14
Total Degree Hours			120

1. Required for all first-time full-time students.

### Minor in History

To achieve a Minor in History the student must complete 18 hours credit in history with a 2.0 average. At least 50% of the credit hours must be in courses numbered 3000 or above. Students should consult with a history advisor in planning a minor.

### Honors in History

The UNO Honors Program requires a minimum ACT composite score of 30 or a minimum SAT score of 1350 for admittance. The cumulative grade point minimum for transfer and continuing students is 3.50. History majors who wish to graduate with honors must meet the following requirements:

1. A cumulative grade-point average of at least 3.5 in all history courses taken, and a cumulative grade point average of 3.50
2. Successful completion, with an oral defense, of a Senior Honors thesis, which includes earning six hours of credit for History 3999 (Senior Honors Thesis). No more than three hours of credit in History 3999 may be included in the minimum 36 hours of history required for the major.

Successful completion of the above requirements will carry the designation With Honors in History on the student's diploma.

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## International Studies

The College of Liberal Arts offers the degree of Bachelor of Arts in International Studies (BAIS) administered through the office of the Dean by the Director of International Studies. The degree's multi-disciplinary curriculum draws upon courses in Anthropology, Economics, English, Fine Arts, Geography, History, Philosophy, Political Science, Sociology, and Foreign Languages. Courses from these disciplines and an internship with a government agency, a non-governmental international agency, or an international corporation comprise the core requirements of the program. Students in this program complete a Business Track or a 24-credit hour concentration in any one of the college's four area studies (Africana Studies, Asian Studies, European Studies, and Latin American and Caribbean Studies) or in any of the four topical themes (Diplomacy and International Organizations; Environmental Issues and Policy; Ethnicity, Nationalism, and Migration; and Peace & Justice Studies). Other topical themes may be developed by individual students in consultation with faculty advisors and the Director of International Studies.

### Student Learning Outcomes

#### College of Liberal Arts

#### Bachelor of Arts in International Studies

1. The program will prepare students for careers in foreign service, in non-governmental and governmental agencies, and in international corporations.
2. Students will be familiar with the contents and methods of global studies, including world economics; international politics and governance; physical interrelatedness of the global regions and their cultural and social issues; global history; and social science methodology.
3. Students will master a second language.
4. Students will obtain specialized knowledge in one of nine distinct fields within international studies, including - Asian Studies; Africana Studies; Latin American & Caribbean Studies; European Studies; Diplomacy & International Organizations; Ethnicity, Nationalism, & Migration; Peace & Justice Studies; Environmental Issues & Policy; or the International Business Track.

### Degree Requirements

#### College of Liberal Arts

#### Bachelor of Arts in International Studies

#### General Education Requirements

Course Name/ #	Credit Hours	Course Name/#	Credit Hours
English		Humanities	

ENGL 1157	3	FORL 1001	3
ENGL 1158 or 1159 <sup>1</sup>	3	FORL 1002	3
Mathematics		ENGL Literature	3
MATH 1115	3	Social Sciences	
MATH 1125 or above	3	SOC 1051	3
Science		POLI 2600 or 2700	3
BIOS <sup>2</sup>	3	Arts	
BIOS or Physical Science <sup>3</sup>	6	Arts Elective <sup>3</sup>	3
		Total	39

#### Other Requirements

Course Name/ #	Credit Hours	Course Name/#	Credit Hours
GEOG 2801 or POLI 2900 or SOC 2708	3	FORL 2001/1001	3
ECON 1203	3	FORL 1002 <sup>7</sup>	3
Culture Course <sup>4</sup>	3	Literature <sup>5</sup>	3
Approved Electives <sup>9</sup>	9		
		Total	27

#### Course Requirements for Major

Course Name/ #	Credit Hours	Course Name/#	Credit Hours
ANTH 4765	3	FORL 3000-level (language/not lit)	3
GEOG 4310	3	FORL 3000-level (language/not lit)	3
ECON 4261	3	POLI 4700/4800/4900 Series	6
SOC 4094 OR 4086 OR 4101 OR 4124	3	Non-Western or Diplomatic HIST Series <sup>6</sup>	6
		Area or Topical Studies <sup>8,9</sup>	24
		Total	54

Total Credit Hours Required	Credit Hours
	120

- "C" or better required
- 6 hour sequence in one science. Select from BIOS, CHEM, EES, PHYS. 3 hours must be BIOS.
- FTA (theatre/dance/film related course, FA or MUS)
- Any 2000-level or higher course in any discipline that treats culture, e.g., ANTH 2052

5. Literature course may be in ENGL, FREN, or SPAN
6. Non-Western History Option includes any 2000-level or higher HIST course with a non-U.S./non-European focus. (Note: Students with an area studies concentration should choose 6 hours unrelated to that area.) Diplomatic History Option includes any two of the following courses: HIST 4381, 4570, 4575, 4580, 4581 or other course by the program director.
7. Foreign language proficiency for the BIAS must be demonstrated by passing six hours of 3000+ level non-literature courses in a language of choice, or competency to be determined by the Director of International Studies in consultation with the appropriate faculty in the Department of Foreign Languages. If a 3000-level conversation course is included in those 6 hours, it will also satisfy the College oral competency requirement. If a conversation course is not included, students should include in Electives a course that fulfills the oral competency requirement for majors in any relevant discipline.
8. Students pursuing concentrations in Area Studies must take POLI 2600; students pursuing concentrations in Topical Themes must take POLI 2700.
9. The 33 total hours of course work taken in the concentration and as electives must include 15 hours of social sciences and at least three but no more than six hours of internship in the appropriate area. At least 12 of the 24 hours taken in the concentration must be at the 2000-level or above. Some concentrations also require that the courses taken to fulfill the concentration be distributed among a minimum number of disciplines.

### Recommended Four-Year Plan of Study

#### College of Liberal arts

#### Bachelor of Arts in International Studies

Four Year Plan of Study			
First Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ENGL 1157	3	ENGL 1158 or 1159	3
FORL 1001	3	FORL 1002	3
MATH 1115	3	MATH 1125 or above	3
UNIV 1001 <sup>1</sup>	1	POLI 2700	3
SOC 1051	3	BIOS or Physical Science	3
BIOS 1053	3		
Total Hours	16	Total Hours	15

Second Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
BIOS or Physical Science	3	Arts	3
Non-Western or Diplomatic HIST	3	FORL 1002	3
FORL 2001	3	GEOG 2801 or POLI 2900 or SOC 2708	3
ECON 1203	3	SOC 4094, 4086, 4101 or 4124	3
Culture Course 2000+	3	Area or Topical Studies	3
Total Hours	15	Total Hours	15

#### Third Year of Enrollment

First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
FORL 3000+	3	FORL 3000+	3
POLI 4700, 4800, 4900 series	3	ANTH 4765	3
Area or Topical Studies	3	GEOG 4310	3
Area or Topical Studies	3	ECON 4261	3
Area or Topical Studies	3	Area or Topical Studies	3
<b>Total Hours</b>	<b>15</b>	<b>Total Hours</b>	<b>15</b>

Fourth Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
Literature	3	Literature	3
POLI 4700, 4800, 4900 series	3	Area or Topical Studies	3
Non-Western or Diplomatic HIST	3	Approved Elective	3
Area or Topical Studies	3	Approved Elective	3
Area or Topical Studies	3	Approved Elective	2
<b>Total Hours</b>	<b>15</b>	<b>Total Hours</b>	<b>14</b>
<b>Total Degree Hours</b>			<b>120</b>

1. Required for all first-time full-time students.

#### B.A. IN INTERNATIONAL STUDIES: BUSINESS OPTION

The Bachelor of Arts in International Studies offers a business track for students seeking a degree program combining a broad-based liberal arts core curriculum with course work in Accounting, Marketing, Finance, Economics, Management, and Business Administration. This program prepares students for careers with international corporations, government agencies, and non-governmental and non-profit agencies that seek professionals with business and financial training, proficiency in at least one foreign language, and a general education in global and cultural issues.

#### Degree Requirements

##### College of Liberal arts

##### Bachelor of Arts in International Studies - International Business Option

General Education Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
English		Humanities	
ENGL 1157	3	FORL 1001	3
ENGL 1158 or 1159 <sup>1</sup>	3	FORL 1002	3
Mathematics		ENGL Literature	3

MATH 1115 or 1125 or higher	3	Social Sciences	
MATH 2785	3	SOC 1051	3
Science		POLI 2700	3
BIOS <sup>2</sup>	3	Arts	
BIOS or Physical Science <sup>3</sup>	6	Arts Elective <sup>3</sup>	3
		Total	39

#### Other Requirements

Course Name/ #	Credit Hours	Course Name/#	Credit Hours
BA 2780	3	FORL 2001/1001	3
ECON 1203 and 1204	6	FORL 1002	(3) <sup>8</sup>
Culture Course <sup>4</sup>	3	Literature <sup>5</sup>	3
		Total	21

#### Course Requirements for Major

Course Name/ #	Credit Hours	Course Name/#	Credit Hours
ANTH 4765	3	FORL 3000-level (language/not lit)	3
GEOG 4310	3	Foreign Language 3000- level (Language/not lit)	3
ECON 4261	3	POLI 4700/4800/4900 Series	6
SOC 4094 or 4086 or 4101 or 4124	3	Non-Western or Diplomatic HIST	6
		Total	30

#### Concentration/Option Requirements/Electives

Course Name/ #	Credit Hours	Course Name/#	Credit Hours
ACCT 2100	3	MANG 3401	3
ECON 4261 or 4262, HRT 2050, HRT 4250 <sup>7</sup> , BA 3048 <sup>5</sup> , ACCT 4126 <sup>5</sup> , IS 4998/4999 or other course approved by director of BAIS program	3	MANG 4446	3
Electives	9	MKT 3501	3
FIN 3300	3	MKT 4546	3
		Total	30

Total Credit Hours Required

Credit Hours

1. "C" or better required
2. 6 hour sequence in one science. Select from BIOS, CHEM, EES, PHYS. 3 hours must be BIOS.
3. FTA (theatre/dance/film related course, FA or MUS)
4. Any 2000-level or higher course in any discipline that treats culture, e.g., ANTH 2052
5. Literature course may be in ENGL, FREN, or SPAN
6. Non-Western History Option includes any 2000-level or higher HIST course with a non-U.S./non-European focus. (Note: Students with an area studies concentration should choose 6 hours unrelated to that area.)  
Diplomatic History Option includes any two of the following courses: HIST 4381, 4570, 4575, 4580, 4581 or other course by the program director.
7. Course has a prerequisite or requires departmental consent.
8. Must complete nine credit hours in one language or six credit hours in two languages.

### Recommended Four-Year Plan of Study

#### College of Liberal Arts

#### Bachelor of Arts in International Studies - International Business Option

Four Year Plan of Study			
First Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ENGL 1157	3	ENGL 1158 or 1159	3
FORL 1001	3	FORL 1002	3
MATH 1115, or higher	3	MATH 2785	3
SOC 1051	3	POLI 2700	3
BIOS 1053	3	BIOS or Physical Science	3
UNIV 1001 <sup>2</sup>	1		
<b>Total Hours</b>	<b>16</b>	<b>Total Hours</b>	<b>15</b>

Second Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
BIOS or Physical Science	3	FORL 2002	3
Non-Western or Diplomatic HIST	4	Arts	3
FORL 2001	3	BA 2780	3
ECON 1203	3	ECON 1204	3
Culture Course 2000+	3	SOC 4094, 4086, 4101 or 4124	3
<b>Total Hours</b>	<b>15</b>	<b>Total Hours</b>	<b>15</b>

Third Year of Enrollment			
First Term		Second Term	

Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
FORL 3000+	3	FORL 3000+	3
POLI Core Course	3	ANTH 4765	3
ACCT 2200	3	GEOG 4310	3
MKT 3501	3	ECON 4261	3
FIN 3300	3	MKT 4546	3
Total Hours	15	Total Hours	15

Fourth Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
Literature	3	Literature	3
POLI Core Course	3	MANG 4446	3
Non-Western or Diplomatic HIST	3	Elective (Language recommended)	3
MANG 3401	3	Electives	5
ECON 4261 or 4262, HRT 2050, HRT4250 <sup>1</sup> , BA 3048 <sup>1</sup> , ACCT 4126 <sup>1</sup> , IS 4998/4999 or other approved course	3		2
Total Hours	15	Total Hours	14
Total Degree Hours			120

1. Course has a prerequisite or requires departmental consent.
2. Required for all first-time full-time students.

### Honors in International Studies

The UNO Honors Program requires a minimum ACT composite score of 30 or a minimum SAT score of 1350 for admittance. The grade point minimum for transfer and continuing students is 3.50. To graduate with Honors in International Studies, the following requirements, in addition to the usual requirements for a major, must be fulfilled:

1. Maintain a minimum cumulative grade point average of 3.50, and a minimum grade point average of 3.5 in Core Curriculum & Area of Concentration;
2. Complete successfully a minimum of 3 credits of Honors Internship (IS 4999);
3. Complete successfully 6 credits of senior honors thesis in Internationally Studies (IS 4990)
  - a. The thesis project is to be determined by mutual agreement between the student, a faculty member who will supervise the project, and the Director of the Honors Program. The project must also be approved by the Director of the International Studies program. The student must satisfactorily defend the thesis or project to a committee composed of the faculty thesis advisor, the Director of the International Studies program, and the Director of the Honors Program.
  - b. Students can apply a maximum of 6 hours of combined internship and thesis credit towards their concentration.
  - c. For Business Option Students, the senior honors thesis will be counted as an elective.

## Department of Music

### Student Learning Outcomes

#### College of Liberal Arts

#### Bachelor of Arts in Music

1. Students will be able to create music at a high level of accomplishment utilizing the skills and knowledge appropriate for their area of specialization.
2. Students will be able to place music in appropriate historical, cultural, and stylistic contexts.
3. Students will employ aural, verbal, and visual analyses to communicate an understanding of the common elements and organizational patterns of music and their interaction.
4. Students will develop and defend musical judgments using written and oral communication.

### Curricula in Music

Students working toward the Bachelor of Arts in Music may elect one of four concentrations offered through the College of Liberal Arts: Composition, Jazz Studies, Music Studies, or Performance. Students are admitted to the Music Major Program through an audition and upon recommendation of the faculty in the chosen concentration. Each concentration is tailored to a specific set of skills and knowledge, so students should follow the appropriate listing of courses.

The University is an accredited institutional member of the National Association of Schools of Music.

Students majoring in music must meet the following requirements:

1. Piano through Music 1408 or equivalent as determined by placement examination for Instrumental Music Education, Vocal Music Education and Music Studies majors, except where piano is the major instrumental. Students must also pass a juried proficiency exam in order to graduate. MUS 1407 and MUS 1408 may not be used for music elective credit.
2. Full-time students must enroll in one ensemble appropriate to their emphasis area each semester (except during the student teaching semester for Music Education majors) even though the six-hour requirement may have been fulfilled. Part-time students are strongly encouraged to participate in an ensemble every semester. Any student, whether full-time or part-time, who is enrolled in an applied music course, must enroll in an ensemble. Students with an emphasis in piano or music studies should consult with their advisor to choose an ensemble.
3. All full-time Music and Music Education majors are required to register for Student Recital Hour (MUS 1900) each semester and must meet attendance requirements. Majors with an emphasis in Jazz Studies, and Vocal or Instrumental Music Education are required to perform in at least one Recital Hour each semester (with the approval of the Applied Music Lesson instructor).

### Degree Requirements

#### College of Liberal Arts

#### Bachelor of Arts in Music (Composition Concentration)

General Education Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
English		BIOS or Physical Science <sup>3</sup>	6
ENGL 1157	3	Humanities	
ENGL 1158 or 1159 <sup>1</sup>	3	FORL 1001/1002	6
Mathematics		ENGL Literature	3
MATH 1031, 1115, 1125 or higher	3	Social Sciences	
MATH 1032, 1116, 1126 or higher	3	Social Sciences Electives <sup>2</sup>	6
Science		Arts	

BIOS <sup>3</sup>	3	MUS 1005	3
		Total	39

Other Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
FORL 1002	3	Social Science 3000+	6
FORL 2001/1001	(3) <sup>8</sup>		
Literature	3		
		Total	12-15

Course Requirements for Major <sup>4</sup>			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
MUS 1111	1	MUS 2104	1
MUS 1101	6	Applied Music (MUS 2801, 2802, 3801, 3802, 4801, 4802)	18
MUS 1102	6	Ensemble <sup>5</sup>	6
MUS 2101	3	MUS 2201	3
MUS 2102	3	MUS 2202	3
MUS 2103	1	MUS 1900	0
		Total	51

Composition Concentration			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
MUS 4101	2	MUS 3960 <sup>7</sup>	0
MUS 4102	2	Conducting I (MUS 3111)	1
MUS 4105	3	Conducting II (MUS 3112)	1
MUS Electives <sup>6</sup>	14	Conducting III (MUS 4111)	1
		Total	24

Total Credit Hours Required	Credit Hours
	126

- "C" or better required
- Must include courses from two different fields (ANTH, ECON, GEOG, POLI, PSYC, SOC, or URBN) and at least 6 hours at 2000-level or higher. See General Course Requirements and Approved Electives in Liberal Arts Section. NOTE: Students must earn six hours of 3000+ course work in non-music studies. The most

efficient way to fulfill this requirement is to take at least six of the nine hours of required social sciences at the 3000+ level, thereby fulfilling two requirements at once. Students may choose to fulfill the 3000+ requirement by taking courses in other areas of concentration (i.e., humanities, business administration, sciences) but doing so will not reduce the number of social sciences hours required.

3. 6 hour sequence in one science. Select from BIOS, CHEM, EES, PHYS. 3 hours must be BIOS.
4. All students must pass piano proficiency through MUS 1407. See music major requirements listed under Curricula in Music.
5. Full-time students must enroll in one ensemble appropriate to their emphasis area each semester even though the six-hour requirement may have been fulfilled. Part-time students are strongly encouraged to participate in an ensemble every semester. Any student, whether full-time or part-time, who is enrolled in an applied music course, must enroll in an ensemble. Students with an emphasis in piano or music studies should consult with their advisor to choose an ensemble.
6. Nine hours must be non-ensemble, three of which must be at 4000. Three hours must be in Jazz History, Jazz Theory, Jazz Composition/Arranging, or Jazz Improvisation.
7. Satisfies Liberal arts oral competency requirements.
8. Must complete nine credit hours in one language or six credit hours in two languages

### Recommended Four-Year Plan of Study

#### College of Liberal Arts

#### Bachelor of Arts in Music (Composition Concentration)

Four Year Plan of Study <sup>1</sup>			
First Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
MUS 1101	6	MUS 1102	6
MUS 1111	1	MUS 1900	0
MUS 1900	0	MUS 1005	3
Ensemble <sup>2</sup>	1	Ensemble	1
ENGL 1157	3	ENGL 1158 or 1159	3
MATH	3	MATH	3
UNIV 1001 <sup>4</sup>	1		
Total Hours	15	Total Hours	16

Second Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
MUS 1900	0	MUS 1900	0
MUS 2101	3	MUS 2102	3
MUS 2103	1	MUS 2104	1
MUS 2201	3	MUS 2202	3
MUS 2800	3	MUS 2802	3
Ensemble	1	Ensemble	1
Foreign Language	3	Foreign Language	3

Science	3	Science	3
Total Hours	17	Total Hours	17

Third Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
MUS 1900	0	MUS 1900	0
MUS 3111	1	MUS 3112	1
MUS 3801	3	MUS 3802	3
MUS 4101	2	MUS 4102	2
Ensemble	1	Ensemble	1
Music Elective <sup>3</sup>	3	MUS Elective	2
Foreign Language	3	Literature (2000+)	3
Social Science (1 or 2000)	3	Social Science (2 or 3000)	3
Total Hours	16	Total Hours	15

Fourth Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
MUS 1900	0	MUS 1900	0
MUS 4105	3	MUS 3960	0
MUS 4111	1	MUS 4802	3
MUS 4801	3	Music Elective	3
Music Elective	3	Music Elective	3
Science	3	Social Science (3000+)	3
Social Science (3000+)	3	Literature (2000+)	3
Total Hours	16	Total Hours	15
Total Degree Hours			127

1. All students must pass piano proficiency through MUS 1407. See music major requirements listed under Curricula in Music.
2. Full-time students must enroll in one ensemble appropriate to their emphasis area each semester (except during the student teaching semester for Music Education majors) even though the six-hour requirement may have been fulfilled. Part-time students are strongly encouraged to participate in an ensemble every semester. Any student, whether full-time or part-time, who is enrolled in an applied music course, must enroll in an ensemble. Students with an emphasis in piano or music studies should consult with their advisor to choose an ensemble.
3. Nine hours must be non-ensemble, three of which must be at 4000. Three hours must be in Jazz History, Jazz Theory, Jazz Composition/Arranging, or Jazz Improvisation.
4. Required for all first-time full-time students.

#### Degree Requirements

## COLLEGE OF LIBERAL ARTS

## B.A. in Music (Jazz Studies Concentration)

General Education Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
English		BIOS or Physical Science <sup>3</sup>	6
ENGL 1157	3	Humanities	
ENGL 1158 or 1159 <sup>1</sup>	3	FORL 1001/1002	6
Mathematics		ENGL Literature	3
MATH 1031, 1115, 1125 or higher	3	Social Sciences	
MATH 1032, 1116, 1126 or higher	3	Social Sciences Electives <sup>2</sup>	6
Science		Arts	
BIOS <sup>3</sup>	3	MUS 1005	3
		Total	39

Other Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
FORL 1002	3	Social Science 3000+	6
FORL 2001/1001	(3) <sup>6</sup>		
Literature	3		
		Total	12-15

Course Requirements for Major <sup>4</sup>			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
MUS 1111	1	MUS 2606 <sup>5</sup>	1
MUS 1101	6	Applied Music	18
MUS 1102	6	Ensemble <sup>5</sup>	6
MUS 2109	3	MUS 1003 or 2006	3
MUS 2110	3	MUS 4207 <sup>8</sup>	3
MUS 2605	1	MUS 1900	0
		Total	51

Jazz Studies Concentration			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours

MUS 3705	3	MUS 4110	3
MUS 3706	3	MUS 4705	3
MUS 3990	0	MUS 4706	3
MUS 4109	3	MUS 4807	3
MUS Electives <sup>7</sup>	3		
		Total	24

Total Credit Hours Required	Credit Hours
	126

- "C" or better required
- Must include courses from two different fields (ANTH, ECON, GEOG, POLI, PSYC, SOC, or URBN) and at least 6 hours at 2000-level or higher. See General Course Requirements and Approved Electives in Liberal Arts Section. NOTE: Students must earn six hours of 3000+ course work in non-music studies. The most efficient way to fulfill this requirement is to take at least six of the nine hours of required social sciences at the 3000+ level, thereby fulfilling two requirements at once. Students may choose to fulfill the 3000+ requirement by taking courses in other areas of concentration (i.e., humanities, business administration, sciences) but doing so will not reduce the number of social sciences hours required.
- 6 hour sequence in one science. Select from BIOS, CHEM, EES, PHYS. 3 hours must be BIOS.
- All students must pass piano proficiency through MUS 1407. See music major requirements listed under Curricula in Music.
- Full-time students must enroll in one ensemble appropriate to their emphasis area each semester even though the six-hour requirement may have been fulfilled. Part-time students are strongly encouraged to participate in an ensemble every semester. Any student, whether full-time or part-time, who is enrolled in an applied music course, must enroll in an ensemble. Students with an emphasis in piano or music studies should consult with their advisor to choose an ensemble.
- Must complete nine credit hours in one language or twelve credit hours in two languages.
- Elective hours must be non-ensemble
- Students registered for Recital must be concurrently enrolled in an applied lesson. Satisfies College oral competency requirement.

### Recommended Four-Year Plan of Study

#### College of Liberal Arts

#### Bachelor of Arts in Music (Jazz Studies Concentration)

Four Year Plan of Study <sup>1</sup>			
First Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
MUS 1101	6	MUS 1102	6
MUS 1900	0	MUS 1003 or 2006	3
MUS 1902 <sup>1</sup>	1	MUS 1900	0
Applied music	3	MUS 1902	1
ENGL 1157	3	MUS 1111	1
MATH	3	Applied Music	3
<sup>3</sup>	1	ENGL 1158 or 1159	3

UNIV 1001			
Total Hours	17	Total Hours	17

Second Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
MUS 1900	0	MUS 1005	3
MUS 1902	1	MUS 1900	0
MUS 2109	3	MUS 1902	1
MUS 2605	1	MUS 2110	3
MUS 3705	3	MUS 2606	1
MATH	1	MUS 3706	3
Science	3	Applied Music	3
Social Science (1 or 2000) <sup>2</sup>	3	Science	3
Total Hours	17	Total Hours	17

Third Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
MUS 1900	0	MUS 1900	0
MUS 4109	3	MUS 4110	3
MUS 4705	3	MUS 4706	3
Science	3	MUS 4902	1
Social Science (2 or 3000)	3	Applied Music	3
Foreign Language	3	Foreign Language	3
		Social Science (3000)	3
Total Hours	15	Total Hours	16

Fourth Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
MUS 1900	0	MUS 1900	0
MUS 4807	3	MUS 3990	0
MUS 4902	1	MUS 4207	3
Applied Music	3	Applied Music	3
Foreign Language	3	Music Elective	3
Literature (2000+)	3	Literature (2000+)	3

Social Science (3000)	3		
Total Hours	16	Total Hours	12
Total Degree Hours			127

1. Full-time students must enroll in one ensemble appropriate to their emphasis area each semester (except during the student teaching semester for Music Education majors) even though the six-hour requirement may have been fulfilled. Part-time students are strongly encouraged to participate in an ensemble every semester. Any student, whether full-time or part-time, who is enrolled in an applied music course, must enroll in an ensemble. Students with an emphasis in piano or music studies should consult with their advisor to choose an ensemble.
2. See General Course Requirements and Approved Electives in Liberal Arts Section. NOTE: Students must earn six hours of 3000+ course work in non-music studies. The most efficient way to fulfill this requirement is to take at least six of the nine hours of required social sciences at the 3000+ level, thereby fulfilling two requirements at once. Students may choose to fulfill the 3000+ requirement by taking courses in other areas of concentration (i.e., humanities, business administration, sciences) but doing so will not reduce the number of social sciences hours required..
3. Required for all first-time full-time students.

### Degree Requirements

#### College of Liberal Arts

#### Bachelor of Arts in Music (Music Studies Concentration)

General Education Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
English		Humanities	
ENGL 1157	3	FORL 1001	3
ENGL 1158 or 1159 <sup>1</sup>	3	FORL 1002	3
Mathematics		ENGL Literature	3
MATH 1031, 1115, 1125 or higher	3	Social Sciences	
MATH 1032, 1116, 1126 or higher	3	Social Sciences Electives <sup>2</sup>	6
Science		Arts	
BIOS <sup>3</sup>	3	Arts <sup>4</sup>	3
BIOS or Physical Science <sup>3</sup>	6	Total	39

Other Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
Literature	3	FORL 2001/1001	3
Social Science 2000+	6	FORL 1002	(3)
		General Electives	12-15
		Total	27

#### Course Requirements for Major <sup>5</sup>

Course Name/ #	Credit Hours	Course Name/#	Credit Hours
MUS 1005	3	MUS 2103 <sup>8</sup>	1
MUS 1111	1	MUS 2104 <sup>8</sup>	1
MUS 1101	6	MUS 2201, 2202, or 2006 <sup>8</sup>	6
MUS 1102	6	MUS 1900	0
MUS 2101 <sup>8</sup>	3	Ensemble <sup>6</sup>	6
MUS 2102 <sup>8</sup>	3		
		Total	33-36

Music Studies Concentration			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
MUS 4150	0	MUS Electives <sup>7</sup>	15
		Total	15

Total Credit Hours Required	Credit Hours
	120

- "C" or better required
- Must include courses from two different fields (ANTH, ECON, GEOG, POLI, PSYC, SOC, or URBN) and at least 6 hours at 2000-level or higher. See General Course Requirements and Approved Electives in Liberal Arts Section. NOTE: Students must earn six hours of 3000+ course work in non-music studies. The most efficient way to fulfill this requirement is to take at least six of the nine hours of required social sciences at the 3000+ level, thereby fulfilling two requirements at once. Students may choose to fulfill the 3000+ requirement by taking courses in other areas of concentration (i.e., humanities, business administration, sciences) but doing so will not reduce the number of social sciences hours required.
- 6 hour sequence in one science. Select from BIOS, CHEM, EES, PHYS. 3 hours must be BIOS.
- Fine Arts or Drama
- All students must pass piano proficiency through MUS 1407. See music major requirements listed under Curricula in Music.
- Full-time students must enroll in one ensemble appropriate to their emphasis area each semester (except during the student teaching semester for Music Education majors) even though the six-hour requirement may have been fulfilled. Part-time students are strongly encouraged to participate in an ensemble every semester. Any student, whether full-time or part-time, who is enrolled in an applied music course, must enroll in an ensemble. Students with an emphasis in piano or music studies should consult with their advisor to choose an ensemble.
- To include no more than 12 hours applied lessons and no more than 3 hours ensemble. Nine hours at the 3000+ level (not ensemble) must be taken at UNO. Elective hours must include 3 hours 4000+ which fulfills the oral competency requirement.
- Student may substitute the jazz theory sequence of MUS 2109, 2110, 2605, and 2606. Permission of jazz area required.

#### Recommended Four-Year Plan of Study

College of Liberal Arts

Bachelor of Arts in Music (Music Studies Concentration)

Four Year Plan of Study <sup>1</sup>			
First Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
MUS 1101	6	MUS 1102	6
MUS 1111	1	MUS 1900	0
MUS 1900	0	MUS 1005 <sup>2</sup>	3
Ensemble <sup>1</sup>	1	Ensemble	1
ENGL 1157	3	ENGL 1158 or 1159	3
MATH 1031 or 1115	3	MATH 1032/1115 or 1116	3
UNIV 1001 <sup>4</sup>	1		
Total Hours	15	Total Hours	16

Second Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
MUS 1900	0	MUS 1900	0
MUS 2101	3	MUS 2102	3
MUS 2103	1	MUS 2104	1
MUS 2201	3	MUS 2202 or 2006	3
Ensemble	1	Ensemble	1
Music Elective <sup>3</sup>	2	Music Elective	2
Social Science	3	Social Science	3
		Biology	3
Total Hours	13	Total Hours	16

Third Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
MUS 1900	0	MUS 1900	0
Ensemble	1	Ensemble	1
MUS Elective	2	Music Elective (3000+)	3
Fine Arts	3	Foreign Language	3
Foreign Language	3	Science	3
Science	3	Social Science (2000+)	3
General Elective	3	General Elective	3

Total Hours	15	Total Hours	16
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Fourth Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
MUS 1900	0	MUS 1900	0
Music Elective (3000+)	6	MUS 4150	0
Foreign Language	3	Music Elective (4000+)	3
Literature (2000+)	3	Social Science (2000+)	3
3000+ Elective non-music	3	Literature (2000+)	3
		3000+ Elective non-music	3
		General Elective	3
Total Hours	15	Total Hours	15
Total Degree Hours			120/122 <sup>2</sup>

1. Full-time students must enroll in one ensemble appropriate to their emphasis area each semester (except during the student teaching semester for Music Education majors) even though the six-hour requirement may have been fulfilled. Part-time students are strongly encouraged to participate in an ensemble every semester. Any student, whether full-time or part-time, who is enrolled in an applied music course, must enroll in an ensemble. Students with an emphasis in piano or music studies should consult with their advisor to choose an ensemble.
2. If Music 2201 and 2202 are both completed, Music 1005 requirement is waived and student may add 3 music elective credits.
3. May include up to four semesters applied lessons, by audition only. Only three additional hours of ensemble may be applied to the degree. Nine hours must be 3000+, not ensemble. The 18/21 hours must include minimum 3 hours 4000+.
4. Required for all first-time full-time students.

### Degree Requirements

#### College of Liberal Arts

#### Bachelor of Arts in Music (Performance Concentration)

General Education Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
English		BIOS or Physical Science <sup>3</sup>	6
ENGL 1157	3	Humanities	
ENGL 1158 or 1159 <sup>1</sup>	3	FORL 1001/1002	6
Mathematics		ENGL Literature	3
MATH 1031, 1115, 1125 or higher	3	Social Sciences	
MATH 1032, 1116, 1126 or higher	3	Social Sciences Electives <sup>2</sup>	6
Science		Arts	
BIOS <sup>3</sup>	3	MUS 1005	3

		Total	39
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Other Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
FORL 1002	3	Social Science 3000+	6
FORL 2001/1001	(3) <sup>7</sup>		
Literature	3		
		Total	12-15

Course Requirements for Major <sup>4</sup>			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
MUS 1111	1	MUS 2104	1
MUS 1101	6	Applied Music	18
MUS 1102	6	Ensemble <sup>6</sup>	6
MUS 2101	3	MUS 2201	3
MUS 2102	3	MUS 2202	3
MUS 2103	1	MUS 1900	0
		Total	51

Performance Concentration			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
MUS 1901	2	MUS 4310, 4311, or 4312 <sup>9</sup>	2
MUS 3111	1	Applied Music	6
MUS 3112	1	Music Electives <sup>6</sup>	12
MUS 3950, 3990 <sup>8</sup>	0		
		Total	24

Total Credit Hours Required	Credit Hours
	126

- "C" or better required
- Must include courses from two different fields (ANTH, ECON, GEOG, POLI, PSYC, SOC, or URBN) and at least 6 hours at 2000-level or higher. See General Course Requirements and Approved Electives in Liberal Arts Section. NOTE: Students must earn six hours of 3000+ course work in non-music studies. The most efficient way to fulfill this requirement is to take at least six of the nine hours of required social sciences at the 3000+ level, thereby fulfilling two requirements at once. Students may choose to fulfill the 3000+ requirement by taking courses in other areas of concentration (i.e., humanities, business administration, sciences) but doing so will not reduce the number of social sciences hours required.

3. 6 hour sequence in one science. Select from BIOS, CHEM, EES, PHYS. 3 hours must be BIOS.
4. All students must pass piano proficiency through MUS 1407. See music major requirements listed under Curricula in Music.
5. Full-time students must enroll in one ensemble appropriate to their emphasis area each semester even though the six-hour requirement may have been fulfilled. Part-time students are strongly encouraged to participate in an ensemble every semester. Any student, whether full-time or part-time, who is enrolled in an applied music course, must enroll in an ensemble. Students with an emphasis in piano or music studies should consult with their advisor to choose an ensemble.
6. For instrumentalists, nine hours must be non-ensemble, three of which must be at 4000. Three hours must be in Jazz History, Jazz Theory, Jazz Composition/Arranging, or Jazz Improvisation. For vocalists, nine hours must be non-ensemble, three of which must be at 4000. Four hours must be in diction and/or repertoire courses and three hours must be in Jazz History, Jazz Theory, Jazz Composition/Arranging, or Jazz Improvisation.
7. Must complete nine credit hours in one language or six credit hours in two languages.
8. May not be used to fulfill ensemble requirements under Curricula in Music. Vocal majors may substitute two hours of music electives in place of chamber ensemble.
9. For vocalists, MUS 4310 required. For instrumentalists, MUS 4312 required. For keyboardists, MUS 4311 required.

### Recommended Four-Year Plan of Study

#### College of Liberal Arts

#### Bachelor of Arts in Music (Performance Concentration)

Four Year Plan of Study <sup>1</sup>			
First Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
MUS 1101	6	MUS 1102	6
MUS 1111	1	MUS 1900	0
MUS 1900	0	MUS 1005	3
Applied Music	3	Applied Music	3
Ensemble <sup>2</sup>	1	Ensemble	1
ENGL 1157	3	ENGL 1158	3
UNIV 1001 <sup>7</sup>	1		
<b>Total Hours</b>	<b>15</b>	<b>Total Hours</b>	<b>16</b>

Second Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
MUS 1900	0	MUS 1900	0
MUS 2101	3	MUS 2102	3
MUS 2103	1	MUS 2104	1
MUS 2201	3	MUS 2202	3
Applied Music	3	Applied Music	3
Ensemble	1	Ensemble	1

Math	3	Foreign Language	3
Foreign Language	3	Math	3
Total Hours	17	Total Hours	17

Third Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
MUS 1900	0	MUS 1900	0
MUS 3111	1	MUS 1901 <sup>5</sup>	1
Applied Music	3	MUS 3112	1
Ensemble	1	MUS 3950	0
Music Elective <sup>3, 4</sup>	3	Applied Music	3
Foreign Language	3	Ensemble	1
Science	3	Science	3
Social Science (1 or 2000)	3	Social Science (2 or 3000)	3
		Literature (2000+)	3
Total Hours	17	Total Hours	15

Fourth Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
MUS 1900	0	MUS 1900	0
MUS 1901	1	MUS 3990	0
MUS 4310, 4311, or 4312 <sup>6</sup>	2	Applied Music	3
Applied Music	3	Music Elective	3
Music Elective	3	Music Elective	3
Science	3	Social Science (3000+)	3
Social Science (3000+)	3	Literature (2000+)	3
Total Hours	15	Total Hours	15
Total Degree Hours			127

1. All students must pass piano proficiency through MUS 1407. See music major requirements listed under Curricula in Music.
2. Full-time students must enroll in one ensemble appropriate to their emphasis area each semester (except during the student teaching semester for Music Education majors) even though the six-hour requirement may have been fulfilled. Part-time students are strongly encouraged to participate in an ensemble every semester. Any student, whether full-time or part-time, who is enrolled in an applied music course, must enroll in an ensemble. Students with an emphasis in piano or music studies should consult with their advisor to choose an ensemble.
3. For instrumentalists, nine hours must be non-ensemble, three of which must be at 4000. Three hours must be in Jazz History, Jazz Theory, Jazz Composition/Arranging, or Jazz Improvisation.

4. For vocalists, nine hours must be non-ensemble, three of which must be at 4000. Four hours must be in diction and/or repertoire courses and three hours must be in Jazz History, Jazz Theory, Jazz Composition/Arranging, or Jazz Improvisation.
5. May not be used in to fulfill ensemble requirements under Curricula in Music. Vocal majors may substitute two hours of music electives in place of chamber ensemble.
6. For vocalists, MUS 4310 is required. For instrumentalists, MUS 4312 is required. For key boardists, MUS 4311 is required.
7. Required for all first-time full-time students.

### Minor in Music

The Music Department offers two options for students who wish to pursue a Minor in music. Students electing Option 2 must audition on their instrument or voice to be accepted into that option.

#### Option 1

This option requires the completion of 20 credit hours in music with a grade of C or better in each course.

1. Twelve hours of Theoretical Foundations (Music 1101, 1102).
2. Six hours from the following: Music 1000, 1003, 2006, 2201, 2202 (Music 2201 and 2202 by consent of department).
3. Two hours of Ensemble (Music 1900 series).

#### Option 2

This option requires the completion of 22-23 credit hours in music with a grade of C or better in each course.

1. Twelve hours of Theoretical Foundations (Music 1101, 1102).
2. Three hours from the following: Music 1000, 1003, 2006, 2001, 2002 (Music 2201 and 2201 by consent of department).\*
3. Six hours of Applied Music (to be chosen from Applied Music Major courses or class instruction based upon audition).\*\*
4. Two hours of Ensemble (Music 1900 series).

\* For students whose applied area is Keyboard, three hours to be chosen from the Music Appreciation or History area will be substituted for the piano class component in Music 1101/1102.

\*\* Lesson fees for non-majors will apply.

### Honors in Music

The UNO Honors Program requires a minimum ACT composite score of 30 or a minimum SAT score of 1350 for admittance. The grade point minimum for transfer and continuing students is 3.50. Students wishing to graduate with honors in music must meet the following requirements:

1. A cumulative grade-point average of 3.5 in all music courses taken and a cumulative grade-point average of 3.50.
2. Completion of Music 3099 (Senior Honors Thesis) for six credits, in addition to the usual course requirements for the degree. These credits must be completed within three consecutive semesters.
3. Satisfactory performance in an oral examination defending the thesis before a committee composed of the thesis director, a representative of the Honors Program, and one other faculty member of the Music Department.
  - a. Jazz Studies Emphasis
    - i. Student must perform or have a composition performed in at least two Music 1900 (Recital Hour) programs during each semester of thesis enrollment.
    - ii. In the senior year, student must present at least one approved off-campus performance.
  - b. Music Studies Emphasis
    - i. Student must present a lecture in at least two Music 1900 (Recital Hour) programs during each semester of the thesis enrollment.
    - ii. In the senior year, student must present at least one approved off-campus lecture.

## Department of Philosophy

### Student Learning Outcomes

#### College of Liberal Arts

#### Bachelor of Arts in Philosophy

1. Philosophy majors will be capable of reading both primary and secondary texts, analyzing the arguments contained in them correctly, and developing cogent philosophical arguments in defense of their own claims.
2. Philosophy majors will demonstrate a willingness to entertain criticism, the ability to formulate and reply to reasoned objections, and the ability to present opposing views critically, yet sympathetically.
3. Philosophy majors will demonstrate a broad understanding of key concepts, problems, ideas, and fundamental questions found in the four core areas of the discipline: (a) Logic, (b) Value Theory, (c) History of Philosophy, and (d) Metaphysics & Epistemology.
4. Non-majors taking philosophy to meet General Education requirements will recognize the importance of the knowledge, skills, and attitudes necessary in the discipline of philosophy.

### Degree Requirements

#### COLLEGE OF LIBERAL ARTS

#### B.A. in Philosophy

General Education Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
English		Humanities	
ENGL 1157	3	FORL 1001 <sup>1</sup>	3
ENGL 1158 or 1159 <sup>2</sup>	3	FORL 1002 <sup>1</sup>	3
Mathematics		Literature	3
MATH 1031, 1115, or ? 1125	3	Social Sciences	
MATH 1032, 1116, or ? 1126	3	Social Sciences <sup>3</sup>	6
Science		Arts	
BIOS <sup>4</sup>	3	Arts Elective <sup>5</sup>	3
BIOS or Physical Science <sup>4</sup>	6		
		Total	39

Other Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
FORL 2001 or 1001, 1002 <sup>1</sup>	3-6	Electives outside of PHIL 3000+	6
Literature	3	General Electives	30-33
Social Science 2000+	6		
		Total	51

Course Requirements for Major			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
PHIL 3030	1	PHIL Electives 3000+	15
PHIL Electives	14		
		Total	30

Total Credit Hours Required	Credit Hours
	120

1. Must complete nine credit hours in one language or six credit hours in two languages
2. "C" or better required
3. Must include courses from two different fields (ANTH, ECON, GEOG, POLI, PSYC, SOC, or URBN) and at least 6 hours at 2000-level or higher. Check General Education Courses to confirm what courses fulfill this requirement
4. 6 hour sequence in one science. Select from BIOS, CHEM, EES, PHYS. 3 hours must be BIOS. Check General Education Courses to confirm what courses fulfill this requirement
5. From FA, MUS, theater or film/video-related FTA. Check General Education Courses to confirm what courses fulfill this requirement

A minimum of 33 credit hours of PHIL courses, including at least 15 in courses numbered above 3001, is required for the major in philosophy. Not more than six hours of 1000-level courses will be allowed to count toward this 33-hour total. Majors are required to take PHIL 3030 during their senior year. Majors are also required to complete the following courses in the core areas of philosophy: PHIL 1101 (logic), PHIL 2201 (ethic), PHIL 2311 & 2312 (history of philosophy), and at least one course whose second digit is a "4" (metaphysics/epistemology).

In unusual circumstances, one or more of these requirements may be waived. A student seeking such an exemption should petition the department.

Philosophy majors should, in consultation with the departmental academic advisor, plan a well-balanced and coherent program of study tailored to their particular needs and interests.

#### Recommended Four-Year Plan of Study

College of Liberal Arts  
Bachelor of Arts in Philosophy

Four Year Plan of Study			
First Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ENGL 1157	3	ENGL 1158 or 1159	3
FORL 1001	3	FORL 1002	3
MATH 1031, 1115, or higher	3	Social Science	3
PHIL Elective	3	MATH 1032, 1116, or higher	3
Social Science	3	PHIL Elective	3
UNIV 1001 <sup>1</sup>	1		
Total Hours	16	Total Hours	15

Second Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
Literature	3	Literature	3
FORL 2001	3	Arts	3
Social Science 2000+	3	Social Science 2000+	3
BIOS 1053	3	PHIL Elective	3
PHIL Elective	3	BIOS or Physical	3
Total Hours	15	Total Hours	15

Third Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
PHIL Elective	2	ENCPHIL 3000+	3
PHIL 3000+	3	Non-PHIL 3000+	3
Physical Science	3	Elective	9
Non-PHIL 3000+	3		
Elective	4		
Total Hours	14	Total Hours	15

Fourth Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
PHIL 3000+	3	PHIL 3030	1
PHIL 3000+	3	PHIL 3000+	3
Elective	9	Elective	11
Total Hours	15	Total Hours	15
Total Degree Hours			120

1. Required for all first-time full-time students.

#### [Minor in Philosophy](#)

A minimum of 18 credit hours of Philosophy, with a grade-point average of at least 2.0, is required for a Minor in Philosophy. At least 50% of the hours must be in courses numbered 3000 or above; another six hours must be in courses numbered 2000 or above. Minors in philosophy are also required to complete at least one course in each of three of the four central areas of philosophy, as defined in the requirements for majors.

#### [Honors in Philosophy](#)

The UNO Honors Program requires a minimum ACT composite score of 30 or a minimum SAT score of 1350 for admittance. The grade point minimum for transfer and continuing students is 3.50. Philosophy majors are eligible to enter the department's honors program during the senior year. To graduate with honors, students must meet the following requirements:

1. A cumulative grade-point average of at least 3.5 in philosophy courses, a cumulative grade-point average of at least 3.50, and acceptable completion of a senior honors thesis (including six hours of credit for Philosophy 3001).

Students must arrange for a faculty member in the department to direct the thesis. After completion, the thesis must be defended orally before a committee composed of the thesis director, another member of the department, and a representative of the University Honors Program.

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# College of Liberal Arts

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## Department of Political Science

### Student Learning Outcomes

#### College of Liberal Arts

#### Bachelor of Arts in Political Science

1. Graduates will have a basic understanding of political science, political processes, and the role of politics in social affairs.
2. The Department of Political Science will provide an undergraduate curriculum in Political Science that covers the quantitative analysis of political information.
3. Graduates will have knowledge of politics outside the United States.

### Degree Requirements

#### College of Liberal Arts

#### Bachelor of Arts in Political Science

#### General Education Requirements

Course Name/ #	Credit Hours	Course Name/#	Credit Hours
English		Humanities	
ENGL 1157	3	FORL 1001	3
ENGL 1158 or 1159 <sup>1</sup>	3	FORL 1002	3
Mathematics		ENGL Literature	3
MATH 1031, 1115, 1125 or higher	3	Social Sciences	
MATH 1032, 1116, 1126 or higher	3	Social Sciences <sup>2</sup>	6
Science		Arts	
BIOS <sup>3</sup>	3	Arts Elective <sup>4</sup>	3
BIOS or Physical Science <sup>3</sup>	6		
		Total	39

Other Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
Literature	3	Foreign Language 1002	(3) <sup>5</sup>
Social Science 2000+	3	General Electives <sup>6</sup>	20-26
Upper-level non major elective	6	History 2501, 2502	6
Foreign Language 2001/1001	3		
ECON 1203, 1204, or 2000+	3		
		Total	47-53

Course Requirements for Major			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
POLI 2151	3		
POLI 2600 or POLI 2700	3		
POLI 2900	3		
POLI 4999	1		
		Total	10

Political Science (No Concentration)	
Course Name/#	Credit Hours
POLI 3000+	9
Political Science Elective	15
Total	24

Pre-Law Concentration			
Course Name/ #	Credit Hours	Course Name/ #	Credit Hours
POLI 2200	3	POLI 4170, 4410, 4420, 4440, 4640, 4670, 4780, 4820, or 4860	9
		Total	12

Total Credit Hours Required	Credit Hours
	120

\* See General Course Requirements and Approved Electives in Liberal Arts Section of the University Catalog.

1. "C" or better required.
2. Must include courses from two different fields (ANTH, ECON, GEOG, POLI, PSYC, SOC, or URBN) and at least 6 hours at 2000-level or higher. Check General Education Courses to confirm what courses fulfill this requirement.
3. 6 hour sequence in one science. Select from BIOS, CHEM, EES, PHYS. 3 hours must be BIOS. Check General Education Courses to confirm what courses fulfill this requirement.
4. From FA, MUS, theater or film/video-related FTA. Check General Education Courses to confirm what courses fulfill this requirement
5. Must complete nine credit hours in one language or six credit hours in two languages.
6. Students must complete elective hours at the 3000 level or above in a social science (other than political science) and/or the humanities.

### Recommended Four-Year Plan of Study

#### College of Liberal Arts

#### Bachelor of Arts in Political Science

Four Year Plan of Study			
First Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ENGL 1157	3	ENGL 1158 or 1159	3
FORL 1001	3	FORL 1002	3
BIOS	3	Other Physical Science	3
MATH 1031, etc.	3	Other MATH	3
POLI 1010	3	POLI 2151	3
UNIV 1001 <sup>1</sup>	1		
<b>Total Hours</b>	<b>16</b>	<b>Total Hours</b>	<b>15</b>

Second Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
Literature	3	Literature	3
FORL 2001	3	Approved Arts	3
Other Physical Science	3	HIST 2502	3
HIST 2501	3	Other Social Science or Humanities	3
POLI 2600 or 2700	3	POLI Elective	3
<b>Total Hours</b>	<b>15</b>	<b>Total Hours</b>	<b>15</b>

Third Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ECON 1203, 1204, or 2000+	3	Other Social Science or Humanities	3

Other Social Science or Humanities	3	Any POLI course at 3000+ level in International or Comparative	3
POLI 2900	3	Any POLI course at 3000+ level	3
Any POLI course at 3000+ level in US Politics	3	Electives	6
Any POLI course at 3000+ level in International or Comparative	3		
<b>Total Hours</b>	<b>15</b>	<b>Total Hours</b>	<b>15</b>

Fourth Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
Other Social Science or Humanities	3	Electives	13
Any POLI course at 3000+ level	6		
Electives	3		
POLI 4990 Capstone	1		
<b>Total Hours</b>	<b>16</b>	<b>Total Hours</b>	<b>13</b>
<b>Total Degree Hours</b>			<b>120</b>

1. Required for all first-time full-time students.

#### Minor in Political Science

Students must complete 18 credit hours in Political Science, including Political Science 2151 and 2600 or 2700. The remaining twelve hours are to be chosen from Political Science courses above the 3000 level. A 2.0 average must be achieved in these courses in order to earn the Minor.

#### Minor in Political Science with Pre-Law Concentration

Students must complete 18 credit hours in political science. Political Science 2151, and 2600 or 2700. The remaining 12 hours are to be chosen from Political Science 2450, 4410, 4420, 4440, 4640, and 4860. A 2.0 average must be achieved in these courses in order to earn the Minor.

#### Honors in Political Science

The UNO Honors Program requires a minimum ACT composite score of 30 or a minimum SAT score of 1350 for admittance. The grade point minimum for transfer and continuing students is 3.50. Students majoring in Political Science and wishing to graduate with honors must meet the following requirements: A cumulative grade point average of at least 3.5 in political science courses, a cumulative grade point average of at least 3.50, and completion of a senior honors thesis which includes earning six hours of credit for Political Science 4991. Students must arrange for a faculty member in the department to direct the thesis; and the thesis is to be defended orally before a committee composed of the thesis director, another member of the department, and a representative of the honors program.

Students concentrating in Political Science must complete 34 hours in their Major, including courses 2151, 2600 or 2700, 2900, and 4999 (which also fulfills the computer literacy requirement) as well as three hours in economics (1203, 1204, or 2000 level or above), six hours in math above 1022, and six hours in History 2501 and 2502.

The nine hours in foreign language must be in the same language. Alternatively, students may opt to take 12 hours in two foreign languages (6 hours in each of two languages). If the 12-hour option is chosen, it reduces approved electives by 3 hours. Be sure that there is at least one humanities course at or above the 2000 level among the electives.

Students must also demonstrate oral communication competence, either by passing Film, Theatre and Communication Arts 2650 or 2660, or by satisfying the significant oral component of any course that includes such a component.

Students with 45 hours or more who have not completed Political Science 2900 are advised to take that course at the first opportunity.

At least 18 hours in Political Science must be chosen from courses numbered over 3000. At least one course must be chosen in U.S. politics: 4170, 4210, 4600, 4601, 4621, 4630, 4640, 4650, 4653. At least two upper-level courses must be chosen from the fields of comparative politics (course numbers beginning with ?47?) and/or international relations (course numbers beginning with ?48?).

Students shall select 12 additional hours in humanities and social sciences (other than political science) at or above the 3000 level and 22 additional hours in any field.

## Department of Foreign Languages

### Student Learning Outcomes

#### College of Liberal Arts

#### Bachelor of Arts in Romance Languages

1. The students shall demonstrate high quality training in the French or Spanish language.
2. The students shall demonstrate an understanding and appreciation of French or Spanish literature and the ability to communicate it, orally and in writing, in both English and French or Spanish.
3. The students shall demonstrate an awareness of the culture of France and the francophone world or Spain, Latin America, and other Spanish speaking regions, and the ability to communicate this awareness in English and in French or Spanish.

### Degree Requirements

#### College of Liberal Arts

#### Bachelor of Arts in Romance Language (French)

General Education Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
English		Humanities	
ENGL 1157	3	FREN 1001	3
ENGL 1158 or 1159 <sup>1</sup>	3	FREN 1002	3
Mathematics		ENGL 2341	3
MATH 1031, 1115, 1125 or higher	3	Social Sciences	
MATH 1032, 1116, 1126 or higher	3	Social Sciences <sup>2</sup>	6
Science		Arts	
BIOS <sup>3</sup>	3	Arts Elective <sup>4</sup>	3
BIOS or Physical Science <sup>3</sup>	36		
		Total	39

Other Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
Social Science 2000+	3	History-European 2000+	3
Electives outside of major 3000+	6	History-European or Louisiana 2000+	3
Electives	16	FREN 2001	3
HIST 1001	3	FREN 2002	3
HIST 1002	6	ENGL 2342	3
		Total	49

Course Requirements for Major			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
French culture courses 3000+	6	FREN 3500	1
FREN 3002, 3031, 3041, 3042, 3100	15	FREN Electives 4000+	6
FREN 3197	1	FREN Literature 3000+	3
		Total	32

Total Credit Hours Required	Credit Hours
	120

- "C" or better required
- Must include courses from two different fields ( ANTH , ECON , GEOG , POLI , PSYC , SOC , or URBN ) and at least 6 hours at 2000-level or higher. Check General Education Courses to confirm what courses fulfill this requirement
- 6 hour sequence in one science. Select from BIOS, CHEM, EES, PHYS. 3 hours must be BIOS. Check General Education Courses to confirm what courses fulfill this requirement
- From FA, MUS, theater or film/video-related FTA. Check General Education Courses to confirm what courses fulfill this requirement.

In all cases, college subject requirements should be completed before taking electives. Refer to the University and college requirements for particulars. In conference with a foreign language advisor each student will plan a balanced and coherent program designed for the student's particular needs and interests. Through choice of electives the student may wish to combine the Major program with another field of study: a second foreign language and literature, linguistics, the civilization of an area, an allied subject within the humanities, an allied field within the social sciences, sciences, or business administration.

#### Recommended Four-Year Plan of Study

College of Liberal Arts

Bachelor of Arts in Romance Languages (French)

Four Year Plan of Study
First Year of Enrollment

First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ENGL 1157	3	ENGL 1158 or 1159	3
Arts	3	General Electives	6
General Electives	3	FREN 1002	3
FREN 1001	3	MATH 1031, 1032, 1115, or higher	3
MATH 1031, 1032, 1115, or higher	3		
UNIV 1001 <sup>1</sup>	1		
Total Hours	16	Total Hours	15

Second Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
BIOS 1053	3	BIOS or Physical Science	3
General Electives	5	ENGL 2342	3
ENGL 2341	3	FREN 2002	3
FREN 2001	3	HIST 1001	3
		Social Sciences	3
Total Hours	14	Total Hours	15

Third Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
Physical Science	3	European or Latin American History 2000+	3
FREN 3031	3	FREN 3042	3
FREN 3041	3	FREN 3100	3
HIST 1002	3	FREN 3197	1
Social Sciences	3	Social Sciences 2000+	6
Total Hours	15	Total Hours	16

Fourth Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
FREN 3002	3	French Culture 3000+	3
French Literature 3000+	3	Upper level non-major Elective	4

French Culture 3000+	3	French Elective 4000 level	3
French Elective 4000 level	3	European or Louisiana History 2000+	3
Upper Level non-major elective	3	FREN 3500	1
Total Hours	15	Total Hours	14
Total Degree Hours			120

1. Required for all first-time full-time students.

### Minor in French

A Minor requiring 18 credit hours of French with a 2.0 grade point average is offered. Specific courses are: 2002, 3031, 3041, 3042, 3100, and three additional hours at the 3000 level or above.

### Honors in French

The UNO Honors Program requires a minimum ACT composite score of 30 or a minimum SAT score of 1350 for admittance. The grade point minimum for transfer and continuing students is 3.50. An honors program in French is available to superior students, both French majors and non-majors.

### Honors in French for French majors

To graduate with honors in French, French majors must:

1. Fulfill the usual requirements for French Majors.
2. Maintain a minimum cumulative grade-point average of 3.5 in French courses and a cumulative 3.50 grade point average.
3. Complete a minimum of six credit hours in interdepartmental (Arts and Sciences) honors courses.
4. Receive credit for French 3199 by writing an honors essay, as well as a summary of it to be written in French, approved by three members of the Foreign Language faculty.
5. During the course of the program, but prior to the writing of the honors essay, the student must demonstrate oral proficiency in the language by means of an examination administered by the faculty.

### Honors in French for students not majoring in French

To graduate with honors in French, students not majoring in French must:

1. Complete a minimum of 12 semester hours in French courses numbered 3100 or above. These courses, which must be approved by the French faculty, must include at least six hours in courses numbered 3200 or above.
2. Maintain a minimum cumulative grade-point average of 3.5 in French courses and a cumulative 3.50 grade point average.
3. Complete a minimum of six credit hours in interdepartmental (Arts and Sciences) honors courses.
4. Receive credit for French 3199 by writing an honors essay, as well as a summary of it to be written in French, approved by three members of the Foreign Language faculty.

During the course of the Program, but prior to the writing of the honors essay, the student must demonstrate oral proficiency in the language by means of an examination administered by the faculty.

### Degree Requirements

#### College of Liberal Arts

#### Bachelor of Arts in Romance Languages (Spanish)

General Education Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours

English		Humanities	
ENGL 1157	3	SPAN 1001	3
ENGL 1158 or 1159 <sup>1</sup>	3	SPAN 1002	3
Mathematics		ENGL 2341	3
MATH 1031, 1115, 1125 or higher	3	Social Sciences	
MATH 1032, 1116, 1126 or higher	3	Social Sciences <sup>2</sup>	6
Science		Arts	
BIOS <sup>3</sup>	3	Arts Elective <sup>4</sup>	3
BIOS or Physical Science <sup>3</sup>	6		
		Total	39

#### Other Requirements

Course Name/ #	Credit Hours	Course Name/#	Credit Hours
Social Science 2000+	6	HIST 1002	3
Electives outside of major 3000+	6	History-European or Latin American 2000+	6
Electives	16	SPAN 2001	3
ENGL 2342	3	SPAN 2002	3
HIST 1001	3		
		Total	49

#### Course Requirements for Major

Course Name/ #	Credit Hours	Course Name/#	Credit Hours
Hispanic Culture Courses 3000+	6	SPAN 3500	1
SPAN 3031, 3041, 3042, 3002	12	SPAN Electives 4000+	6
SPAN 3197	1	SPAN Literature 3000+	6
		Total	32

Total Credit Hours Required	Credit Hours
	120

- "C" or better required
- Must include courses from two different fields ( ANTH , ECON , GEOG , POLI , PSYC , SOC , or URBN ) and at least 6 hours at 2000-level or higher. Check General Education Courses to confirm what courses fulfill this requirement
- 6 hour sequence in one science. Select from BIOS, CHEM, EES, PHYS. 3 hours must be BIOS. Check General Education Courses to confirm what courses fulfill this requirement
- From FA, MUS, theater or film/video-related FTA. Check General Education Courses to confirm what courses

fulfill this requirement

In all cases college subject requirements should be completed before taking electives. Refer to the university and college requirements for particulars. In conference with a foreign language advisor each student will plan a balanced and coherent program designed for the student's particular needs and interests. Through choice of electives the student may wish to combine the Major program with another field of study: a second foreign language and literature, linguistics, the civilization of an area, an allied subject within the humanities, an allied field within the social sciences, sciences, or business administration.

### Recommended Four-Year Plan of Study

#### College of Liberal Arts

#### Bachelor of Arts in Romance Languages (Spanish)

Four Year Plan of Study			
First Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ENGL 1157	3	ENGL 1158 or 1159	3
Art	3	General Electives	6
General Electives	3	SPAN 1002	3
SPAN 1001	3	MATH 1031, 1032, 1115, or higher	3
MATH 1031, 1032, 1115, or higher	3		
UNIV 1001 <sup>1</sup>	1		
<b>Total Hours</b>	<b>16</b>	<b>Total Hours</b>	<b>15</b>

Second Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
General Electives	6	BIOS or Physical Science	3
BIOS 1053	3	ENGL 2342	3
ENGL 2341	3	SPAN 2002	3
SPAN 2001	3	HIST 1001	3
		Social Sciences	3
<b>Total Hours</b>	<b>15</b>	<b>Total Hours</b>	<b>15</b>

Third Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
Physical Science	3	European or Latin American History 2000+	3

SPAN 3031	3	SPAN 3042	3
SPAN 3041	3	Spanish Lit 3000+	3
HIST 1002	3	SPAN 3197	1
Social Sciences	3	Social Sciences 2000+	6
Total Hours	15	Total Hours	16

Fourth Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
SPAN 3002	3	Hispanic Cultures 3000+	3
Spanish Literature 3000+	3	Upper level non-major Spanish Elective 4000 level	3
Hispanic Cultures 3000+	3	European or Latin American History 2000+	3
Spanish Elective 4000 level	3	SPAN 3500	1
Upper Level non-major elective	3	Elective	3
Total Hours	15	Total Hours	13
Total Degree Hours			120

1. Required for all first-time full-time students.

#### Minor in Spanish

A Minor requiring 18 credit hours of Spanish with a 2.0 grade point average is offered. Specific courses are: 2002, 3031, 3041, 3042, and 3100 or 3101, and three additional hours at the 3000 level or above.

#### Honors in Spanish

The UNO Honors Program requires a minimum ACT composite score of 30 or a minimum SAT score of 1350 for admittance. The grade point minimum for transfer and continuing students is 3.50. An honors program in Spanish is available to superior students, both Spanish majors and non-majors.

#### Honors in Spanish for Spanish majors:

To graduate with honors in Spanish, Spanish majors must:

1. Fulfill the usual requirements for Spanish Majors.
2. Maintain a minimum cumulative grade-point average of 3.5 in Spanish courses and a cumulative 3.50 grade point average.
3. Complete a minimum of six credit hours in interdepartmental (Arts and Sciences) honors courses.
4. Receive credit for Spanish 3199 by writing an honors essay, as well as a summary of it to be written in Spanish, approved by three members of the Foreign Language faculty.
5. During the course of the program, but prior to the writing of the honors essay, the student must demonstrate oral proficiency in the language by means of an examination administered by the faculty.

#### Honors in Spanish for students not majoring in Spanish:

To graduate with honors in Spanish, students not majoring in Spanish must:

1. Complete a minimum of 12 semester hours in Spanish courses numbered 3100 or above. These courses, which must be approved by the Spanish faculty, must include at least six hours in courses numbered 3200 or

above.

- Maintain a minimum cumulative grade-point average of 3.5 in Spanish courses and an overall 3.50 average.
- Complete a minimum of six credit hours in interdepartmental (Arts and Sciences) honors courses.
- Receive credit for Spanish 3199 by writing an honors essay, as well as a summary of it to be written in Spanish, approved by three members of the Foreign Language faculty.

During the course of the program, but prior to the writing of the honors essay, the student must demonstrate oral proficiency in the language by means of an examination administered by the faculty.

## Department of Sociology

### Student Learning Outcomes

#### College of Liberal Arts

#### Bachelor of Arts in Sociology

- Students will learn the basic theoretical and methodological paradigms in Sociology and how they are applied in various substantive areas of the discipline.
- Students will learn concrete skills related to community and social service activities.
- Students will learn how to design and execute their own sociological research projects.
- Students will learn analytical skills necessary to critically evaluate and analyze scholarly and policy oriented research reports.
- Students will learn knowledge and skills necessary to pursue advanced degrees in sociology and related professional fields.

### Degree Requirements

#### COLLEGE OF LIBERAL ARTS

#### Bachelor of Arts in Sociology

General Education Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
English		Humanities	
ENGL 1157	3	FORL 1001	3
ENGL 1158 or 1159 <sup>1</sup>	3	FORL 1002	3
Mathematics		ENGL Literature	3
MATH 1031, 1115, 1125 or higher	3	Social Sciences	
MATH 1032, 1116, 1126 or higher	3	Social Sciences <sup>2</sup>	6
Science		Arts	
BIOS <sup>3</sup>	3	Arts Elective <sup>4</sup>	3
BIOS or Physical Science <sup>3</sup>	6		
		Total	39

Other Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
Literature	3	Foreign Language 2001/1001	3

Social Science 2000+	3	Foreign Language 1002	(3) <sup>6</sup>
Social Science 2000+	3	General Electives	29-32
Upper-level non major elective	6		
		Total	50

Course Requirements for Major			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
SOC 1051	3	SOC 4086	3
SOC 2707	4	4000-level core Sociology courses <sup>5</sup>	6
SOC 2708	3	Sociology Electives	12
		Total	31

Total Credit Hours Required	Credit Hours
	120

- "C" or better required
- Must include courses from two different fields (ANTH, ECON, GEOG, POLI, PSYC, SOC, or URBN) and at least 6 hours at 2000-level or higher.
- 6 hour sequence in one science. Select from BIOS, CHEM, EES, PHYS. 3 hours must be BIOS.
- Check General Education Courses to confirm what courses fulfill this requirement
- Choose two courses from among sociology 4080, 4094, 4101, 4103, 4107, 4124, 4216, 4219.
- Must complete nine credit hours in one language or six credit hours in two languages

#### Recommended Four-Year Plan of Study

##### College of Liberal Arts Bachelor of Arts in Sociology

Four Year Plan of Study			
First Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
SOC 1051	3	SOC 2000 Elective	3
MATH	3	MATH	3
ENGL 1157	3	ENGL 1158 or 1159	3
BIOS	3	Science	3
Elective	3	Elective	3
UNIV 1001 <sup>1</sup>	1		
Total Hours	16	Total Hours	15

Second Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
Foreign Language	3	Foreign Language	3
ENGL Literature	3	SOC 2708	3
SOC 2707	4	ENGL Literature	3
SOC 2000 Elective	3	Science	3
Elective (recommend Anthropology)	3	Elective (recommend Political Science)	3
Total Hours	16	Total Hours	15

Third Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
Foreign Language	3	SOC Elective	3
SOC 4086	3	Elective (recommend History)	3
SOC, core course	3	Elective, 3000+ level	3
Science	3	Arts	3
Elective, 3000+ level	3	Elective	3
Total Hours	15	Total Hours	15

Fourth Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
SOC Core course	3	Sociology Elective	3
Remaining Electives	9	Remaining electives	10
SOC Internship	3		
Total Hours	15	Total Hours	13
Total Degree Hours			120

1. Required for all first-time full-time students.

#### Minor in Sociology

Students must complete the following requirements for a Minor in Sociology:

1. A minimum of 18 credit hours in Sociology with a 2.0 grade point average.
2. Sociology 1051 or equivalent.
3. Sociology 2708 or equivalent. Political Science 2900 or Psychology 2300 will substitute for this requirement but will not reduce the required number of credit hours in Sociology.
4. A minimum of nine credit hours in Sociology courses numbered 3000 or higher.

## Honors in Sociology

The UNO Honors Program requires a minimum ACT composite score of 30 or a minimum SAT score of 1350 for admittance. The grade point minimum for transfer and continuing students is 3.50.

Students wishing to graduate with Honors in Sociology must:

1. Fulfill all requirements for the Major in sociology.
2. Maintain a cumulative grade point average of 3.5 in Sociology courses and 3.50 cumulative grade point average.
3. Complete a senior honors thesis which includes earning six hours of credit for Sociology 3099.

## American Humanics Certification Program

The Department of Sociology administers the American Humanics Certification Program which is open to any undergraduate major or baccalaureate degree holder. The American Humanics Certification Program prepares students for careers with youth and human service organizations. Program participants must join the American Humanics Student Organization and complete the following courses required for certification.

### Course Requirements for American Humanics Certification

COURSE REQUIREMENTS	Credit Hours
Accounting 2100	3
Marketing 3501	3
Sociology 4101 or Management 3401 or Management 3411 or Political Science 4101	3
Sociology 4191 <sup>1</sup>	3
Sociology 4192 <sup>2</sup>	3
Sociology 3091 <sup>3</sup>	1
Sociology 3096 and 3097 or Management 3090 or Political Science 4998 or Psychology 3095 or Anthropology 4790 or English 4398 <sup>4</sup>	6
Total	22

1. Sociology 4191 (Seminar in Not-For-Profit Organizations) is cross-listed with LSU-Shreveport (SOCL 492) and may be taken for UNO credit via the compressed video system.
2. Sociology 4192 (Practicum in Not-For-Profit Organizations) is a one credit course that must be repeated for at least three hours of credit. This course is cross-listed with LSU-Shreveport (SOCL 392) and may be taken for UNO credit via the compressed video system.
3. All program participants must attend the American Humanics Training Institute for at least one four-day session at their own expense (estimated cost \$800) for which they will earn one credit of independent study (Sociology 3091).
4. American Humanics interns must work in a non-profit setting. American Humanics internships require at least a 2.5 overall GPA, or at least a 2.75 GPA in the student's last 30 hours.

Students interested in the American Humanics Certification Program register through the undergraduate coordinator in the Sociology Department.

## Department of Planning and Urban Studies

### Curriculum in Urban Studies and Planning

The Bachelor of Science in Urban Studies and Planning degree (BSUSP) was approved by the Louisiana Board of Regents in the Summer of 2001. The primary objective of the degree is to prepare undergraduate students for

entry-level positions that assist professionals in urban planning and related fields in public, private and non-profit organizations. The secondary objective is to prepare undergraduate students for professional or scholarly graduate degree programs in urban studies, urban and regional planning, geography or related disciplines.

The BSUSP degree is interdisciplinary in nature drawing on the strengths of several subject areas to provide students with a holistic approach to the study of cities, urbanization and urban life.

Students can select an area of concentration in urban planning, geography or transportation to complement their degree so as to provide in depth understanding of a specific urban topic. Students can also earn credentials in historic preservation, hazards planning or GIS/RS.

While the BSUSP is not a professional terminal degree, it shares faculty with the Master of Urban and Regional Planning degree (MURP) which is fully accredited by the Planning Accreditation Board, the national accrediting body for planning schools.

### Student Learning Outcomes

#### College of Liberal Arts

#### Bachelor of Science in Urban Studies and Planning

1. Students will understand the environmental, economic and social processes that have shaped urbanization in and beyond the United States
2. Students will be able to read, understand and apply primary and secondary sources from across urban studies and planning
3. Students will develop a professional interest by pursuing a concentration in planning, transportation or geography
4. Students will develop professional skills necessary to operate in public, private and nonprofit organizations

### Degree Requirements

#### College of Liberal Arts

#### Bachelor of Science in Urban Studies and Planning

General Education Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
English		Humanities	
ENGL 1157	3	ENGL 2152 or URBN 4670	3
ENGL 1158 or 1159 <sup>1</sup>	3	FTA 2650	3
Mathematics		Literature	3
MATH 1115, 1031, 1126 or higher	3	Social Sciences	
MATH 1116, 1032, 1126 or higher	3	GIS/RIS Course <sup>2</sup>	3
Science		Social Science Elective <sup>3</sup>	3
BIOS <sup>4</sup>	3	Arts	
BIOS or Physical Science <sup>4</sup>	6	Arts Elective <sup>5</sup>	3
		Total	39

Other Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours

ENGL Literature	3	Social Sciences <sup>6</sup>	18
Social Science Elective	3	General Electives	15
Humanities/Social Science Elective	3		
ECON 1203, ECON 1204, or GEOG 2254	3		
		Total	45

Course Requirements for Major			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
URBN 3002	3	URBN, MURP, GEOG and related courses from support areas <sup>7</sup>	30
MURP 4200	3		
		Total	36

Total Credit Hours Required	Credit Hours
	120

- "C" or better required
- A computer or GEOG course approved by department
- Must include courses from two different fields (ANTH , ECON , GEOG , POLI , PSYC , SOC , or URBN ) and at least 6 hours at 2000-level or higher. Check General Education Courses to confirm what courses fulfill this requirement
- 6 hour sequence in one science. Select from BIOS, CHEM, EES, PHYS. 3 hour must be BIOS. Check General Education Courses to confirm what courses fulfill this requirement
- FTA (theatre/dance/film related course, FA or MUS). Check General Education Courses to confirm what courses fulfill this requirement
- Six hours from each of three subjects.
- Choose 10 courses from URBN 2890, 3002, 3100, 3200, 3300, 3710, 3998, 4000, 4002, 4003, 4670, 4800, 4900, PADM 4150, 4220, 4221, 4222, 4223, 4224, 4300, 4800, 4810, 4900, MURP 4005, 4010, 4030, 4061, 4062, 4081, 4140, 4145, 4160, 4200, 4400, 4600, 4670, 4710, 4711, 4800, and 4900.

**Recommended Four-Year Plan of Study**

College of Liberal Arts  
 Bachelor of Science in Urban Studies and Planning

Four Year Plan of Study			
First Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ENGL 1157	3	ENGL 1158 or 1159	3
Literature	3	Literature	3
Math #1	3	Math # 2	3
URBN 1000 or Social Science	3	URBN 1000 or Social Science	3

BIOS	3	BIOS or Physical Science	3
UNIV 1001 <sup>1</sup>	1		
Total Hours	16	Total Hours	15

Second Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
URBN 2000	3	URBN 2100	3
Physical Science	3	Econ 1203 or 1204	3
FTA 2650	3	Arts	3
Statistics	3	Technical Writing	3
Humanities	3	Social Science 1a	3
Total Hours	15	Total Hours	15

Third Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
URBN 3002	3	MURP 4200	3
URBN, MURP or GEOG (Concentration)	3	URBN, MURP or GEOG (Concentration)	3
GEOG 4805 or computer course	3	Social Science 2b	3
Social Science 1b	3	Social Science 3a	3
Social Science 2a	3	Elective	3
Total Hours	15	Total Hours	15

Fourth Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
Social Science 3b	3	URBN or MURP	3
URBN or MURP	3	URBN or MURP	3
URBN or MURP	3	URBN, MURP or GEOG (Concentration)	3
URBN, MURP or GEOG (Concentration)	3	Elective	3
Elective	3	Elective	2
Total Hours	15	Total Hours	14
Total Degree Hours			120

1. Required for all first-time full-time students.

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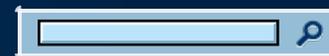


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# College of Sciences

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## Department of Earth and Environmental Sciences (EES)

To earn a Bachelor of Science degree in earth and environmental sciences, a student must receive credit for 120 hours of coursework. This coursework must include core and foundation coursework in EES plus the required and elective courses for one of two available concentrations: Geoscience or Environmental and Coastal Science. The curriculum allows students the flexibility to focus in areas of hydrocarbon geology, environmental science, coastal science, and traditional geosciences. A grade of C or better must be earned in all math and science courses.

### Student Learning Outcomes

#### College of Sciences

#### Bachelor of Science in Earth and Environmental Sciences

1. Students will acquire fundamental concepts in areas of earth surface morphology, mineralogy, earth history and evolution, environmental science, and surface and subsurface earth processes.
2. Students will be able to construct and effectively present information and concepts visually and verbally through oral PowerPoint presentations.
3. Students will be able to explain earth and environmental sciences concepts and present and interpret data in technical writing format by their date of graduation.
4. The department will maintain high student satisfaction with the program.

### Degree Requirements

#### College of Sciences

#### Bachelor of Science in Earth and Environmental Sciences

#### General Education Requirements

Course Name/ #	Credit Hours	Course Name/#	Credit Hours
English		EES 1002	3
ENGL 1157	3	Humanities	
ENGL 1158 or 1159 <sup>1</sup>	3	Humanities Elective <sup>2</sup>	6
Mathematics <sup>3</sup>		Literature <sup>2</sup>	3
MATH 1126	3	Social Sciences	
MATH 2114	4	<sup>2</sup>	6

		Social Sciences elective	
Science		Arts	
BIOS 1073	3	Arts elective <sup>2</sup>	3
EES 1000	3		
		Total	39

Other Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
BIOS 1071	1	PHYS 1033 or 1063	1
CHEM 1007	1	2 <sup>nd</sup> SCI Elective + PAIRED LAB (non EES) <sup>5</sup>	4
CHEM 1017	3	Science Electives	9
PHYS 1031 or 1061	3	Electives	14
		Total	37 <sup>4</sup>

Course Requirements for Major			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
EES 1004	3	EES 1003	1
EES 2051	3	EES 1005	1
EES 2700	4	EES 2000	4
EES 4560	3	EES 4099	2
EES 1001	1	Approved EES electives	6
		Total	28

Concentration/Option Requirements ? TWO CONCENTRATIONS			
Geosciences		Environmental and Coastal Sciences	
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
EES 2740	3	EES 2510	3
EES 3100	3	EES 3120	3
EES 3310	3	EES 4520	4
EES 4110	3	EES 4550	3
EES 4750	4	EES 4949	3
Total	16	Total	16

Total Credit Hours Required	Credit Hours
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120

**Additional Requirement**

Minimum grade of C in all science courses (BIOS, CHEM, CSCI, EES, MATH, PHYS, PSYC)

1. "C" or better required
2. Check General Education Courses to confirm courses fulfilling this requirement.
3. 6 credits of Math satisfy the General Education requirements.
4. Includes 1 credits of Math listed in General Education Requirements section.
5. Select from BIOS 1081 and 1083; or CHEM 1008 and 1018; or PHYS 1032 and 1035; PHYS 1062 and 1065.

**Recommended Four-Year Plan of Study**

College of Sciences

Bachelor of Science in Earth and Environmental Science

Environmental and Coastal Concentration

Four Year Plan of Study			
First Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
EES 1000	3	EES 1004	3
EES 1001	1	EES 1005	1
MATH 1126	3	MATH 2114	4
ENGL 1157	3	CHEM 1017	3
BIOS 1073	3	CHEM Lab 1007	1
BIOS Lab 1071	1	ENGL 1158 or 1159	3
UNIV 1001 <sup>1</sup>	1	Elective	2
Total Hours	15	Total Hours	17

Second Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
EES 1002	3	Science Elective	3
EES 1003	1	EES 2000 Lec/Lab	4
EES 2700 Lec/Lab	4	EES 2510	3
Elective	2	Humanities	3
EES 2051	3	Science Elective/Lab	4
ENGL Literature	3		
Total Hours	16	Total Hours	17

Third Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
Elective	3	Science Elective	3
Arts	3	EES 4520 Lec/Lab	4
Humanities	3	Social Sciences	3
PHYS 1031	3	Elective	3
PHYS Lab 1033	1		
EES 4949	3		
<b>Total Hours</b>	<b>16</b>	<b>Total Hours</b>	<b>13</b>

Fourth Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
EES 4560	3	EES 4099	2
Social Sciences	3	EES 4550	3
EES Approved Elective	3	EES 3120	3
Science Elective	3	Elective	3
		EES Approved Elective	3
<b>Total Hours</b>	<b>12</b>	<b>Total Hours</b>	<b>14</b>
<b>Total Degree Hours</b>			<b>120</b>

1. Required for all first-time full-time students.

### College of Sciences

#### Bachelor of Science in Earth and Environmental Science

#### Geosciences Concentration

Four Year Plan of Study			
First Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
EES 1000	3	EES 1004	3
EES 1001	1	EES 1005	1
MATH 1126	3	MATH 2114	4
ENGL 1157	3	CHEM 1017	3
BIOS 1073	3	CHEM Lab 1007	1
BIOS Lab 1071	1	ENGL 1158 or 1159	3

UNIV 1001 <sup>1</sup>	1	Elective	2
Total Hours	15	Total Hours	17

Second Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
EES 1002	3	Science Elective	3
EES 1003	1	EES 2000 Lec/Lab	4
EES 2700 Lec/Lab	4	Elective	2
EES 2740 Lec/Lab	3	Humanities	3
EES 2051	3	Science Elective/Lab	4
ENGL Literature	3		
Total Hours	17	Total Hours	16

Third Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
EES 3100	3	Science Elective	3
Arts	3	EES 4750 Lec/Lab	4
Humanities	3	Social Sciences	3
PHYS 1031	3	Elective	3
PHYS Lab 1033	1		
EES 3310	3		
Total Hours	16	Total Hours	13

Fourth Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
EES 4560	3	EES 4099	2
Social Sciences	3	Elective	3
EES Approved Elective	3	Elective	3
Science Elective	3	EES 4110	3
		EES Approved Elective	3
Total Hours	12	Total Hours	14
Total Degree Hours			120

1. Required for all first-time full-time students.

### Minor in Earth and Environmental Sciences

An undergraduate majoring in another subject may minor in earth and environmental sciences by completing 20 credit hours in EES with a grade of C or better in each EES course taken. The courses must include EES 1000, 1001, and EES 1002 and 1003, and EES 1004 and 1005. At least 8 credit hours must be 2000-level or above and at least nine hours must have been taken at UNO.

### Honors in Earth and Environmental Sciences

An honors program is available to EES majors. Successful completion of the program will result in graduation with Honors in Earth and Environmental Sciences. To be eligible for admission to the program, a student must maintain a minimum of a 3.25 cumulative grade average and a 3.5 grade point average in EES courses. To remain in the program, a student must maintain these averages. Before graduation a student must have completed at least six hours of EES 4098, including an oral defense of the honors thesis before a committee of the faculty.

## Department of Mathematics

Mathematics is a large discipline which has applications to all academic subjects. The mathematics department at UNO teaches classes in actuarial mathematics, applied mathematics, pure mathematics, and statistics. To earn a Bachelor of Science in Mathematics, a student must satisfy all requirements of the University and of the College of Sciences, as well as those of the Program described below. In addition, a grade of C or better must be earned in each mathematics and science course (including engineering classes taken as science electives) taken for degree credit.

### Student Learning Outcomes

#### College of Science

#### Bachelor of Science in Mathematics

1. Students will acquire fundamental concepts in areas of calculus, linear algebra, abstract algebra, and additional topics.
2. Students will be able to construct and effectively present information and concepts visually and verbally through oral PowerPoint presentations.
3. Students will be able to explain mathematical concepts in technical writing format by their date of graduation.
4. Students will express satisfaction with the academic program.

### Degree Requirements

#### College of Sciences

#### Bachelor of Science in Mathematics

General Education Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
English		Humanities	
ENGL 1157	3	Foreign Language Sequence <sup>8</sup>	6
ENGL 1158 or 1159 <sup>1</sup>	3	Literature	3
Mathematics		Social Sciences	
Calculus Sequence MATH 2114,			

2124 <sup>2,7</sup>	8	Social Sciences elective <sup>3</sup>	6
Science	3	Arts	
BIOS	3	Arts elective <sup>4</sup>	3
Physics 1061 and 1062	6		
		Total	39

#### Other Requirements

Course Name/ #	Credit Hours	Course Name/#	Credit Hours
Computer science 1205 or (1581 and 1583)	3-4	Science Electives <sup>5</sup>	11-12
Physics 1063, 1065	2	General Electives	25
		Total	44 <sup>6</sup>

#### Course Requirements for Major

Course Name/ #	Credit Hours	Course Name/#	Credit Hours
Mathematics 2134	4	Mathematics 4511	3
Mathematics 2221 or 2314	3	Mathematics 3000+	6
Mathematics 3511	3	Mathematics 4000+	9
Mathematics 3512	3	Mathematics 3900	0
Mathematics 4101 <sup>9</sup>	3	Mathematics 3721	3
		Total	37

Total Credit Hours Required	Credit Hours
	120

#### Additional Requirement

Minimum grade of C in all science courses (BIOS, CHEM, CSCI, EES, MATH, PHYS, PSYC)

- "C" or better required
- 6 credits of Math satisfy the general education requirements
- Check General Education Courses to confirm courses fulfilling this requirement.
- FTA (theatre/dance/film related course), FA or MUS
- At least 6 of these credits must not be mathematics courses in the College of Sciences. 6 credits can be engineering courses. 1 less credit is required if the student took CSCI 1581 and CSCI 1583 (rather than CSCI 1205.) The College of Sciences maintains a list of approved science electives. Note that many low level classes are not permitted.
- Includes 2 credits of Math listed in general education requirements section
- Students not adequately prepared to enter a calculus sequence must take appropriate pre-calculus courses without credit toward graduation. The mathematics department determines placement for mathematics

classes.

8. Foreign language must include a six hour sequence in one language. French, German, or Russian is recommended for students planning graduate studies.
9. Students interested in graduate studies in mathematics are strongly advised to take Math 4102.

### Recommended Four-Year Plan of Study

#### College of Sciences

#### Bachelor of Science in Mathematics

Four Year Plan of Study			
First Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ENGL 1157	3	ENGL 1158 or 1159	3
MATH 2114	4	MATH 2124	4
FORL 1001	3	FORL 1002	3
Social Science Elective	3	Social Science Elective	3
UNIV 1001 <sup>1</sup>	1	Free Elective	3
<b>Total Hours</b>	<b>14</b>	<b>Total Hours</b>	<b>16</b>

Second Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
CSCI 1581+1583 OR 1205	3-4	MATH 2221 OR 2314	3
ENGL Literature	3	MATH 3511	3
MATH 2134	4	PHYS 1062	3
PHYS 1061	3	PHYS 1065	1
PHYS 1063	1	BIOS	3
ARTS	3	Free Elective	3
<b>Total Hours</b>	<b>17-18</b>	<b>Total Hours</b>	<b>16</b>

Third Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
MATH 3721	3	MATH 4511	3
MATH 3000+	3	MATH 3000+	3
Science Elective	3	Science Elective	3
Science Elective	3	Free Elective	3
Free Elective	3	Free Elective	3

Total Hours	15	Total Hours	15
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Fourth Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
MATH 3512	3	MATH 4000+	3
MATH 4101	3	MATH 4000+	3
Science Elective	2-3	MATH 4000+	3
Free Elective	3	MATH 3900	0
Free Elective	3	Free Elective	2
Total Hours	14-15	Total Hours	11
Total Degree Hours			120

1. Required for all first-time full-time students.

#### Minor in Mathematics

An undergraduate minor in mathematics may be obtained by completing at least 18 credit hours of mathematics courses at the 2000-level or higher with a grade of C or better in each course. Six of the hours shall be at or above the 3000 level. At least nine credit hours must be taken at UNO.

#### Minor in Actuarial Mathematics

An undergraduate minor in actuarial mathematics may be obtained by completing at least 18 credit hours in mathematics including Mathematics 2314, 4801, 4802 and 4803, with a grade of C or better in each course. At least nine credit hours must be taken at UNO.

#### Minor in Statistics

An undergraduate minor in statistics may be earned by completing 18 credit hours in mathematics including Mathematics 4301 and 4304 with a grade of C or better in each course. At least nine credit hours must be taken at UNO.

#### Minor in Industrial and Applied Mathematics

An undergraduate minor in industrial and applied mathematics may be obtained by completing at least 18 credit hours including Mathematics 2134, 2221 and 3511 with a grade of C or better in each course. At least nine credit hours must be taken at UNO.

#### Honors in Mathematics

An honors program is available to mathematics majors. Successful completion of the program will result in graduation with Honors in Mathematics. To be eligible for admission to the program a student must have a 3.25 cumulative grade point average and a 3.5 grade point average in mathematics (including a grade point average of 3.5 in mathematics courses numbered 2000 or above). To remain in the program the student must maintain these averages. Before graduation, the student must complete Mathematics 4411 and six credit hours of Mathematics 3099, including an oral defense of the honors thesis to a committee composed of the faculty thesis director, another faculty member chosen by the departmental chairman, and a representative of the Honors program.

## Department of Physics

## Student Learning Outcomes

### College of Sciences

#### Bachelor of Science in Physics

1. Understand advanced concepts in classical mechanics, electricity and magnetism, quantum mechanics and thermodynamics.
2. Be able to communicate scientific knowledge in oral and written form.
3. Be able to effectively conduct independent research including error and data analysis.
4. Be able to solve physical problems using advanced mathematical techniques.

## Curriculum in Physics

### Degree Requirements

#### College of Sciences

#### Bachelor of Science in Physics

General Education Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
English		PHYS 1062 <sup>5</sup>	3
ENGL 1157	3	Humanities	
ENGL 1158 or 1159 <sup>1</sup>	3	Humanities Electives <sup>2</sup>	6
Mathematics <sup>3</sup>		Literature	3
MATH 2114, 2124	8	Social Sciences	
Science		Social Sciences Electives <sup>2</sup>	6
BIOS	3	Arts	
PHYS 1061 <sup>5</sup>	3	Arts Elective <sup>2</sup>	3
		Total	39

Other Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
CHEM 1017 and 1007	4	Applied Science and Engineering Electives	9
CHEM 1018 and 1008	4	MATH 2221	3
CSCI 1581/1583 or 1205	3	MATH 2134	4
Mathematical or Mathematical Physics Elective	3	Electives	19
		Total	51 <sup>4</sup>

Course Requirements for Major			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours

PHYS 1063, 1065 <sup>5</sup>	2	PHYS 4160	3
PHYS 2064	3	PHYS 4401	3
Physics Undergraduate Research <sup>6</sup>	3	PHYS 4601	3
PHYS 3198	1	PHYS 4501	3
PHYS 3301	3	Approved PHYS 3000+ level Electives	6
		Total	30

Total Credit Hours Required	Credit Hours
	120

#### Additional Requirement

Minimum grade of C in all science courses (BIOS, CHEM, CSCI, EES, MATH, PHYS, PSYC)

- "C" or better required.
- Check General Education Courses to confirm courses fulfilling this requirement.
- 6 credits of Math satisfy the general education requirements.
- Includes 2 credits of Math listed in general education requirements section.
- Physics 1031, 1032, 1033, and 1034 may be substituted with consent of the department.
- Research may be any combination of Physics 3094, 2191, 3191, or 4191 to a total three credit hours.

#### Recommended Four-Year Plan of Study

##### College of Sciences

##### Bachelor of Science in Physics

Four Year Plan of Study			
First Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ENGL 1157	3	ENGL 1158 or 1159	3
MATH 2114	4	MATH 2124	4
CHEM 1017/1007	4	PHYS 1061/1063	4
UNIV 1001 <sup>1</sup>	1	CHEM 1018/1008	4
Social Science Elective	3		
Total Hours	15	Total Hours	15

Second Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours

PHYS 1062/1065	4	PHYS 2064	3
MATH 2134	4	Humanities Elective	3
CSCI 1205 or 1581/1583	3	MATH 2221	3
Social Science Elective	3	BIOS	3
		ENGL Literature	3
Total Hours	14	Total Hours	15

Third Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
PHYS 3301	3	PHYS 4501	3
PHYS 4601	3	PHYS 4160	3
MATH or Mathematical Physics	3	PHYS 3000+ level elective	3
Humanities Electives	3	Arts	3
General Electives	3	General Electives	3
Total Hours	15	Total Hours	15

Fourth Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
PHYS 4401	3	Approved Science/Engineering Elective	3
Approved Science/Engineering Elective	3	Approved Science/Engineering Elective	3
PHYS 3094	3	PHYS 3198	1
PHYS 3000+ level elective	3	General Electives	9
General elective	3		
Total Hours	15	Total Hours	16
Total Degree Hours			120

1. Required for all first-time full-time students.

### Physics as a career

Students wishing to pursue graduate school in physics should take additional physics courses including PHYS 4302, 4402, 4503 and 6 approved physics electives at the 4000 level.

### Combining Physics with a Second Discipline

As a foundational science, physics combines well with many other subjects. The curriculum has the flexibility to allow a Minor in disciplines such as Education, Philosophy, Music, Math, Earth and Environmental Sciences, Electrical Engineering, Computer Science and other areas. Students may also choose to pursue a foundation in

other areas that do not offer minors. Examples are: Pre-Med: add 5 hrs of Biology, 8 hours of organic Chemistry, 3 hours of Biochemistry, and 3 hours of Statistics to meet minimum med school requirements (see pre-med section of Biology for details). Other possibilities include Civil Engineering, Mechanical Engineering, Earth and Environmental Science (Geophysics), and other fields tailored to the student's interests.

### Minor in Physics

An undergraduate minor in physics may be obtained by completing 18 credit hours in physics with a grade of C or better in each course. These 18 credit hours will consist of Physics 1061, 1062, 1063, 1065 (or 1031, 1032, 1033, 1034), 2064, 3198, 3301, and 4501 or departmentally-approved alternatives. The last nine hours must be taken at UNO.

### Honors in Physics

An honors program is available to superior students. Successful completion of the program results in graduation with *Honors in Physics*. For admission to the program a student must be enrolled in or have completed Physics 3198 and 4194 and have grade point averages of at least 3.2 cumulative and in all science courses taken, and at least 3.5 in all physics courses taken. Before graduation the student must complete six hours of Senior Honors Thesis (Physics 4194), present an acceptable honors thesis, and obtain an honors-level grade on a thesis-defense examination.

## Department of Psychology

### Student Learning Outcomes

#### College of Sciences

#### Bachelor of Science in Psychology

1. The department's undergraduate majors will attain a broad based knowledge of the field of psychology.
2. Undergraduate majors will be proficient in the production and communication of empirical research. Graduates will be able to design a data collection strategy, collect and analyze data, and write a report of the findings in APA format.
3. The department will produce undergraduate majors who have focused training in psychology across 3 areas defined by American Psychological Association guidelines as core to undergraduate training: 1) Developmental; 2) Clinical, Abnormal, and Personality; 3) Sensation Perception, Physiology, & Comparative.

### Curriculum in Psychology

The Psychology Department offers a Bachelor of Science in Psychology. Students must complete 39 hours with a grade of C or better in each course in their major; at least 15 of these hours must be earned at UNO. In addition, a grade of C or better is required in ENGL 1158 and each science and math course taken for degree credit.

#### College of Sciences

#### Bachelor of Science in Psychology

General Education Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
English		BIOS or Physical Science <sup>2</sup>	6
ENGL 1157	3	Humanities	
ENGL 1158 or 1159 <sup>1</sup>	3	FORL Sequence	6
Mathematics		Literature	3
MATH 1115 or 1125	3	Social Sciences	

MATH 1116 or 1126	3	Social Science Electives <sup>3</sup>	6
Science		Arts	
BIOS <sup>2</sup>	3	Arts Elective <sup>3</sup>	3
		Total	39

Other Requirements			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
CSCI 1000	3	Science Electives <sup>4</sup>	5
Humanities Elective <sup>5</sup>	3	Social Science Electives (2000+)	6
Literature	3	Other Electives	20
Science Labs <sup>4</sup>	2		
		Total	42

Course Requirements for Major			
Course Name/ #	Credit Hours	Course Name/#	Credit Hours
PSYC 1000	3	Psychology Electives <sup>6</sup>	27
PSYC 1310	3	PSYC 4000 (exit exam)	0
PSYC 2300	3		
PSYC 4010	3		
		Total	39

Total Credit Hours Required	Credit Hours
	120

Additional Requirements
Minimum grade of C in all science courses (BIOS, CHEM, CSCI, EES, MATH, PHYS, PSYC)

- "C" or better required
- 9 hours in science to include a 6 hour sequence in one science and 3 hours in another. One of the sciences must be BIOS and the other must be CHEM, EES, or PHYS. Select the 6 hour sequence from BIOS 1073 and 1083 (recommended), or CHEM 1017 and 1018, or PHYS 1031 and 1032, or PHYS 1061 and 1062.
- Select from ANTH, ECON, GEOG, POLI, SOC, or URBN. Check General Education Courses to confirm courses fulfilling this requirement.
- Select science labs that correspond with the 6 hour science sequence taken for general education requirements. Select from BIOS 1071 and 1081, or CHEM 1007 and 1008, or PHYS 1033 and 1034, or PHYS 1063 and 1065.
- Humanities Electives - FTA, ENGL, Foreign Language, HIST, PHIL, or WGS. Check General Education Courses to confirm what courses fulfill this requirement.

6. Elective hours of Psychology must include six courses, meeting the following criteria: at least one course from each group; three additional courses chosen from at least two different groups; and at least three of the six courses must be at the 4000 level.

Group 1. Psychology 2110, 2120, 2130, 2200, 4100, 4600

Group 2. Psychology 2380, 2400, 4310, 4510, 4530, 4550, 4700

Group 3. Psychology 2320, 2340, 4320, 4330, 4350, 4365

### Recommended Four-Year Plan of Study

#### College of Sciences

#### Bachelor of Science in Psychology

Four Year Plan of Study			
First Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
ENGL 1157	3	ENGL 1158 or 1159	3
MATH 1115/1125	3	MATH 1116/1126	3
Foreign Language 1001	3	Foreign Language 1002	3
Social Science Elective	3	PSYC 1310	3
PSYC 1000	3	2000 Level Psychology	3
UNIV 1001 <sup>1</sup>	1		
<b>Total Hours</b>	<b>16</b>	<b>Total Hours</b>	<b>15</b>

Second Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
PSYC 2300	3	2000 Level Psychology	3
2000 Level Psychology	3	Social Science Elective-2000+Level	3
Social Science Elective	3	Arts or Humanities Elective	3
Arts or Humanities Elective	3	English Literature	3
Science Sequence (Lecture & Lab)	4	Science Sequence (Lecture & Lab)	4
<b>Total Hours</b>	<b>16</b>	<b>Total Hours</b>	<b>16</b>

Third Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
Psychology Elective	3	4000 level Psychology	3
Social Science Elective 2000 level +	3	Psychology Elective	3
CSCI 1000	3	Science Elective	3

BIOS	3	Elective	3
Arts Elective	3	Elective	3
Total Hours	15	Total Hours	15

Fourth Year of Enrollment			
First Term		Second Term	
Course Prefix & Number	Credit Hours	Course Prefix & Number	Credit Hours
4000 level Psychology	3	PSYC 4000 (Exit Exam)	0
PSYC 4010	3	4000 level Psychology	3
Science Elective	3	Psychology Elective	3
Elective	3	Elective	3
Elective	3	Elective	3
Total Hours	15	Total Hours	12
Total Degree Hours			120

1. Required for all first-time full-time students.

### Minor in Psychology

For an undergraduate minor in psychology, a minimum of 18 credit hours is required, including Psychology 1000 and at least two 4000-level courses. Note there are only two 4000 level psychology courses (4510 and 4530) students may take without having completed Psychology 1310 and 2300, and these two courses may not be offered each semester. For a student transferring from another university, at least nine of the 18 hours must be earned at UNO. A student may not use credit in both Psychology 1500 and 1520 toward the minor. A grade of C or better in psychology courses must be achieved in order to have the minor listed on the student transcript.

### Honors in Psychology

An honors program is available to superior students majoring in psychology. Successful completion of the program results in graduation with *Honors in Psychology*. For admission to the program, a student must have grade-point averages of at least 3.25 cumulative and at least 3.5 in psychology courses and must have permission of the department and the Honors Program director. Before graduation, the student must take six hours of Senior Thesis (Psychology 3099), resulting in an acceptable honors thesis.

## Pre-Professional Studies

### Pre-Medical and Pre-Dental Programs

A student who is interested in medicine or dentistry as a profession should select a degree program which will adequately prepare him or her for entry into professional school yet provide ample opportunity to pursue additional interests in varied academic disciplines. Most schools stress a four-year degree program as the best possible preparation. A student may major in the subject of his or her choice; however, the student and the advisor must be sure the major program selected either includes those courses required by the medical or dental school or offers sufficient free electives to include 50 or 60 hours of science. The pre-medical/ pre-dental advisor in the College of Sciences should be consulted as soon as possible after the student enters the University, and such consultation is encouraged on a regular basis thereafter. Additional information about the pre-medical and pre-dental curricula may be obtained in the office of the College of Sciences (1100 Science Building).

### Pre-Pharmacy

UNO offers coursework to prepare a student to apply for admission to the College of Pharmacy at Xavier University in New Orleans or to the College of Pharmacy and Health Sciences at the University of Louisiana at Monroe. Approximately two years of college work in specified areas is required to be eligible for admission to either program. A student interested in pharmacy should consult with the pre-pharmacy advisor during his or her first semester at UNO. Additional information about the pre-pharmacy curriculum may be obtained in the office of the College of Sciences (1100 Science Building).

### Pre-Veterinary Medicine

UNO offers coursework to prepare a student to apply for admission to the LSU School of Veterinary Medicine. To be eligible for admission, a student must complete a minimum of 66 credit hours of specified college work. A student interested in veterinary medicine should consult with the pre-veterinary advisor during his or her first semester at UNO. Additional information about the pre-veterinary medicine curriculum may be obtained in the office of the College of Sciences (1100 Science Building).

### Pre-Allied Health Programs

A student planning to enter any of the following programs should contact the appropriate institution during his or her first semester at UNO for detailed information concerning admission. A list of the addresses of these institutions is available in the office of the College of Sciences (1100 Science Building). All programs involve competitive admission and each division or school determines its own requirements. Since admission requirements for these programs change frequently, students should obtain updated advising checklists from the College of Sciences office. Upon completion of the degree requirements for any of these programs, the institution itself, not UNO, awards the degree.

### Pre-Cardiopulmonary Science

(Respiratory Therapy/Cardiovascular Technology)

This program is designed for students desiring to apply for entry into the professional curricula in Cardiopulmonary Science (Respiratory Therapy/Cardiovascular Technology) offered through the LSU Health Sciences Center. The degree program provides education and training in the areas of prevention, diagnosis, management, and rehabilitation of people with heart and lung disorders. In addition, the baccalaureate therapist and technologist is a potential educator or supervisor in cardiopulmonary departments. Additional information about the pre-cardiopulmonary science curriculum may be obtained in the office of the College of Sciences (1100 Science Building).

### Pre-Clinical Laboratory Sciences

UNO offers the prerequisite courses designed to prepare students for admission to the Department of Clinical Laboratory Sciences, LSU Health Sciences Center. Admission is on a competitive basis. Students who successfully complete all requirements will earn a Bachelor of Science in Medical Technology awarded by the Louisiana State University Health Sciences Center. Additional information about the pre-clinical laboratory sciences curriculum may be obtained in the office of the College of Sciences (1100 Science Building).

### Pre-Occupational Therapy

UNO offers the prerequisite courses designed to prepare the student for admission into the Master of Occupational Therapy (MOT) degree program, Department of Occupational Therapy, School of Allied Health Professions, LSU Health Sciences Center. To be eligible for admission, the student must complete a bachelor's degree (in any field) and must have met the prerequisites specified by the LSUHSC School of Allied Health Professions. Additional information about the pre-occupational therapy curriculum may be obtained in the office of the College of Sciences

(1100 Science Building).

### Pre-Physical Therapy

UNO offers the prerequisite courses designed to prepare the student to apply for admission to the Doctor of Physical Therapy Degree offered by the Department of Physical Therapy, School of Allied Health Professions, LSU Health Sciences Center. To be eligible for admission, the student must have earned a Bachelor's Degree (in any field of the student's choosing) and must have completed the prerequisites for the program specified by the LSUHSC School of Allied Health Professions. Additional information about the pre-physical therapy curriculum may be obtained in the office of the College of Sciences (1100 Science Building).

### Pre-Physician Assistant Studies

This program is designed to prepare the student for entry into the Master of Physician Assistant Studies (MPAS) program offered through the LSU Health Sciences Center on either the New Orleans or Shreveport campus. To be eligible for admission, the student must have earned a Bachelor's Degree (in any field) and must have completed the prerequisites for the program specified by the LSUHSC School of Allied Health Professions. Additional information about the pre-physician assistant curriculum may be obtained in the office of the College of Sciences (1100 Science Building).

### Pre-Allied Dental Fields

Allied dental fields include Dental Hygiene and Dental Laboratory Technology. A student planning to enter either of these two programs should contact the Office of Student Affairs at the LSU School of Dentistry during his or her first semester at UNO for detailed information about the programs including admission requirements. Both programs involve competitive admission with each program determining its own admission requirements. Upon completion of the degree requirements for either of the programs, the institution itself, not UNO, awards the degree. Additional information about the pre-allied dental fields may be obtained in the office of the College of Sciences (1100 Science Building).

### Pre-Nursing

UNO cooperates with the Louisiana State University Health Sciences Center (LSUHSC) School of Nursing by offering the general education courses required for the traditional baccalaureate degree program, which is designed to educate the professional nurse. Admission to the LSUHSC School of Nursing is on a competitive basis. Students who successfully complete all requirements will earn a Bachelor of Science in Nursing awarded by the LSUHSC School of Nursing. Additional information about the pre-nursing curriculum may be obtained in the office of the College of Sciences (1100 Science Building).

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# Academic Orientation

ACOR 1006      Academic Orientation II      1 cr.

The individual and the world of work. Lectures and activities designed to create individual and career awareness. Topics include choosing a major and careers, occupational-interest testing, and occupational-information resources. (Offered on a pass-fail basis. Two hours of lecture per week for one-half semester).



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## Accounting

### ACCT 2100 Principles of Accounting

3 cr.

Offered each semester. Not open to students in remedial English or remedial mathematics. Not open to freshmen. An introduction to the accounting model and financial statement preparation with emphasis on the concepts and terminology needed to understand a typical corporate report. Topics covered include: current and long-term assets current and long-term liabilities, stockholders' equity, revenues and expenses.

### ACCT 2130 Management Accounting

3 cr.

Offered each semester. Prerequisite: ACCT 2100. Not open to freshmen. Not for credit toward a degree in Accounting. A study of the accounting process of the firm and its role in managerial planning, control, and decision-making; analysis and interpretation of financial statements.

### ACCT 3090 Internship in Accounting

3

cr.

Students will engage in at least ten hours per week at the site of an assigned participating organization that directs the interns in specific projects relating to their majors. Students wishing to take this course should apply during the semester prior to the internship. May be taken up to 2 times for a total of 6 credits, of which only 3 credits can apply toward a B.S. degree in Accounting. Pass/Fail grading.

### ACCT 3091 Internship in Accounting

6

cr.

Prerequisite: consent of department. Students will engage in work at the site of an assigned participating organization that directs the interns in specific projects relating to their majors. Students wishing to take this course should apply during the semester prior to the internship. Students working 30 hours or more per week may receive six hours credit in one semester, of which only three hours can apply toward a B.S. degree in Accounting. This course may not be repeated for credit. Students may not receive credit for both ACCT 3091 and ACCT 3090. Pass/Fail grading.

### ACCT 3120 Accounting Lab

1 cr.

Prerequisite: ACCT 2100 and concurrent enrollment in or credit for BA 2780. Practical applications of the accounting cycle and internal controls using a practice case. The class meets for two hours once a week.

### ACCT 3121 Intermediate Accounting I

3 cr.

Offered each semester. Prerequisite: completion of ACCT 2100 with a grade of C or better. Not open to freshmen. A study of financial accounting with emphasis on the asset section of the balance sheet.

### ACCT 3122 Intermediate Accounting II

3

cr.

Offered each semester. Prerequisite: completion of ACCT 3121 with a grade of C or better. A study of financial accounting with emphasis on the liability and owner's equity sections of the balance sheet and the statement of cash flow.

ACCT 3123	Advanced Financial Accounting	3 cr.
Offered each semester. Not open to freshmen. Prerequisite: Accounting 3122 with a grade of C or better and Accounting 3120. Financial accounting theory, concepts, methodology, and structure. Topics covered will include partnerships, business combinations, consolidations, and SEC reporting problems.		
ACCT 3124	Governmental Accounting	3 cr.
Offered each semester. Prerequisite: Completion of ACCT 3121 with a grade of C or better. Financial accounting theory, concepts, methodology, and structure. Topics covered, in addition to governmental accounting, include not-for-profit accounting, international accounting, estates and trusts, insolvency and troubled debt restructuring.		
ACCT 3131	Cost Accounting I	3 cr.
Offered each semester. Prerequisite: six hours of accounting. An introduction to the development and use of accounting information for internal business decisions. Topics include: cost terminology and classifications, methods of cost accumulation and analysis, budgets and standard costs, cost-volume-profit relationships, and other accounting fundamentals for production, marketing, and financing decisions.		
ACCT 3141	Accounting Information Systems	3 cr.
Offered each semester. Prerequisites: BA 2780 and three semester hours of accounting. Not open to freshmen. The integration of information flows of various segments of a business organization into an information system of the total organization, with emphasis on the accounting aspects of electronic data processing.		
ACCT 3152	Tax Accounting I	3 cr.
Offered each semester. Prerequisite: six hours of accounting. A comprehensive study of federal income tax concepts for the development of income and related deductions. The impact of tax considerations in business decisions.		
ACCT 3161	Auditing	3 cr.
Offered each semester. Prerequisites: ACCT 3122 with a grade of C or better or consent of department. Auditing ethics, standards, and procedures and their application by independent public accountants.		
ACCT 3191	Independent Study	1 min.
cr. - 3 max. cr. Offered each semester. Prerequisite: approval of the directed individual study by the department chair and the supervising professor is required prior to registration. The student should refer to the College of Business Administration policy on undergraduate directed individual study available in the Accounting Department. The course is arranged individually in order to provide latitude for specialized study and research under the direction of a faculty member. Progress reports, readings, conferences, and research paper are required. May be taken up to 6 times for a total of 6 credits.		
ACCT 3999	Senior Honors Thesis	1 min. cr. - 6 max. cr.
Offered each semester. This course is open to Honors Students only, with admission by approval of the Directors of the Honors Program in Accounting and the University Honors Program. May be taken up to 6 times for a total of 6 credits until a thesis is accepted following oral defense.		
ACCT 4142	IT Auditing & Advanced Accounting Information Systems	3 cr.
Prerequisite: ACCT 3141 or equivalent. Information systems and accounting theory applied to advanced computerized information (information technology or IT) systems with emphasis on internal controls and auditing techniques.		
ACCT 4152	Tax Accounting II	3 cr.
Offered each semester. Prerequisite: Accounting 3152. Research methods in taxation. Intensive treatment of tax problems of partnerships, corporations, and fiduciaries. Study of federal estate and gift taxes.		
ACCT 4154	Estate and Gift Taxation	3 cr.
Prerequisite: ACCT 4152 or consent of department. Taxation of gratuitous transfers under the federal estate and gift tax code. Emphasis will be given to the community property laws of Louisiana as they influence gift and estate taxation.		

ACCT 4162	Advanced Auditing	3 cr.
Prerequisite: ACCT 3161. Current auditing concepts and prospective developments in professional and internal auditing. Cases and readings used to illustrate applications of auditing standards, statistical sampling, professional ethics, and legal liability.		
ACCT 4167	Internal Auditing	3 cr.
Prerequisite: ACCT 3122 (with a grade of C or better) and consent of department. A study of internal auditing ethics, standards, and concepts. Students should apply a semester in advance for consent of the department. Students taking this course for graduate credit must complete an additional course project. Credit will not be given for both ACCT 4167 and 6167.		
ACCT 4168	Operational Auditing	3 cr.
Prerequisite: ACCT 3122 (with a grade of C or better) and consent of department. Operational, efficiency, and effectiveness audits, and relevant internal auditing standards. Cases and readings used to illustrate internal auditing standards and applications of internal audit practices. Students taking this course for graduate credit must complete an additional course project. Credit will not be given for both ACCT 4168 and 6168		
ACCT 4180	Oil and Gas Industry: Accounting Problems	3 cr.
Prerequisite: six hours of accounting or consent of department. A study of current reporting practices and problems associated with accounting in the oil and gas industry. A review of the industry reporting requirements to state agencies, federal agencies, economic interest holders from both the operator and nonoperator points of view, as well as general purpose financial statements.		
ACCT 4190	Contemporary Accounting Topics	3 cr.
Prerequisite: consent of department. A study in depth of one or more subjects currently of concern in the field of accounting. May be repeated for credit when the topics vary. No more than six semester hours of credit will be allowed.		
ACCT 4195	Internship in Internal Auditing	1 min. cr. - 3 max. cr.
Prerequisite: Accounting 4167 and consent of department. (Pass/Fail) At least ten hours per week of learning experience under the general supervision of a faculty member and direct supervision of a professional internal audit manager or director. Students desiring to take this course should apply a semester in advance since enrollment is limited by the internships available. Pass/Fail grading is based on a written report by the professional supervisor, a written report by the student, and the faculty member's evaluation. Accounting majors cannot use this course as an accounting elective for degree credit. This course is not open for graduate credit. May be taken up to a 3 times for a total of 3 credits.		
ACCT 4400	Survey of Financial Accounting	3 cr.
A user-oriented approach to the fundamentals of financial accounting. Emphasis will be placed on the interpretation of financial information and on the measurement of product costs as well as the consequences of business decisions. Not open to College of Business undergraduate majors or to graduate accounting students. This course may not be taken for graduate credit.		
ACCT 5142	IT Auditing & Advanced Accounting Information Systems	3 cr.
Prerequisite: ACCT 3141 or equivalent. Information systems and accounting theory applied to advanced computerized information (information technology or IT) systems with emphasis on internal controls and auditing techniques.		
ACCT 5152	Tax Accounting II	3 cr.
Offered each semester. Prerequisite: Accounting 3152 . Research methods in taxation. Intensive treatment of tax problems of partnerships, corporations, and fiduciaries. Study of federal estate and gift taxes.		
ACCT 5154	Estate and Gift Taxation	3 cr.
Prerequisite: ACCT 4152 or consent of department. Taxation of gratuitous transfers under the federal estate and gift tax code. Emphasis will be given to the community property laws of Louisiana as they influence gift and estate taxation.		
ACCT 5162	Advanced Auditing	3 cr.
Prerequisite: ACCT 3161. Current auditing concepts and prospective developments in professional and internal		

auditing. Cases and readings used to illustrate applications of auditing standards, statistical sampling, professional ethics, and legal liability.

ACCT 5167 Internal Auditing 3 cr.

Prerequisite: ACCT 3122 (with a grade of C or better) and consent of department. A study of internal auditing ethics, standards, and concepts. Students should apply a semester in advance for consent of the department. Students taking this course for graduate credit must complete an additional course project. Credit will not be given for both ACCT 4167 and 6167.

ACCT 5168 Operational Auditing 3 cr.

Prerequisite: ACCT 3122 (with a grade of C or better) and consent of department. Operational, efficiency, and effectiveness audits, and relevant internal auditing standards. Cases and readings used to illustrate internal auditing standards and applications of internal audit practices. Students taking this course for graduate credit must complete an additional course project. Credit will not be given for both ACCT 4168 and 6168.

ACCT 5180 Oil and Gas Industry: Accounting Problems 3 cr.

Prerequisite: six hours of accounting or consent of department. A study of current reporting practices and problems associated with accounting in the oil and gas industry. A review of the industry reporting requirements to state agencies, federal agencies, economic interest holders from both the operator and nonoperator points of view, as well as general purpose financial statements.

ACCT 5190 Contemporary Accounting Topics 3 cr.

Prerequisite: consent of department. A study in depth of one or more subjects currently of concern in the field of accounting. May be repeated for credit when the topics vary. No more than six semester hours of credit will be allowed.

ACCT 6125 Studies in Accounting Theory 3 cr.

Prerequisites: Accounting 3122 with a C or better. A study of underlying concepts of financial accounting with application to problem areas. Critical analysis of current pronouncements on accounting postulates and principles.

ACCT 6126 International Accounting 3 cr.

Prerequisite: Accounting 3122 or consent of department. Credit will not be given for both ACCT 4126 and ACCT 6126. The external and internal reporting problems associated with multinational business entities and other organizations. The objectives of the course are (1) to provide an overview of the international structures which have evolved in response to international accounting problems (2) to review the literature relating to these problems and (3) to develop the analytical capabilities necessary to deal with international accounting issues.

ACCT 6130 Advanced Accounting Analysis for Decision Making 3 cr.

Offered each semester. Prerequisite: Accounting 4400 or 2100 and 2130. A study of the analysis of accounting and other data relating to alternative business possibilities as an aid to management decision making. Not open to students in the M.S. in Accounting program or students who have an undergraduate degree in accounting.

ACCT 6131 Accounting in Health Care Settings 3 cr.

A survey of the financial and managerial accounting principles and procedures necessary to make strategic and operational decisions in a managed care environment. Topics include financial statement structure and analysis, cost accounting, budgeting, analysis of variances from budget, cost-volume-profit analysis, analysis of non-routine decisions, rate setting and current issues in accounting for health care. Not open to students in the M.S. in Accounting or the M.S. in Accounting-Taxation Option programs.

ACCT 6133 Studies in Managerial Accounting 3 cr.

Prerequisite: Accounting 3131 or 6130. Readings and research in accounting relative to internal management, including cost accumulation and control systems, decision systems, and contemporary issues in management accounting.

ACCT 6143 Seminar in Accounting Information Systems 3 cr.

Prerequisites: Accounting 3141 or equivalent. To develop an understanding of the concepts of information systems, their design and operation, and to relate these concepts to the economic information requirements, information flows, decision criteria, and control mechanisms in the business

organization.

- ACCT 6151 Federal Tax Practice Procedure and Report Writing 3 cr.  
Fall semester. Prerequisite: ACCT 3152 or consent of department. A course to acquaint the student with the organization of the Internal Revenue Service and its relation to practice, tax research techniques, and ethical tax practice.
- ACCT 6153 Taxation of Corporations and Shareholders 3 cr.  
Fall semester. Prerequisite: ACCT 4152 or consent of department. ACCT 6151 is recommended. Analysis of the tax treatment, tax problems, and tax planning techniques involving transactions between corporations and their shareholders; transfers to a corporation; capital structure; dividends and preferred stock bailouts; and an introduction to corporate divisions and reorganizations.
- ACCT 6155 Tax Problems of Employee Retirement Plans 3 cr.  
Prerequisite: consent of department. Provides a working knowledge of the qualification and operating requirements of the various deferred compensation plans available under the current Internal Revenue Code.
- ACCT 6156 Advanced Taxation of Partners and Partnerships and Professional Corporations 3 cr.  
Prerequisite: ACCT 4152 or consent of department. ACCT 6151 recommended. The study of the tax problems of service partnerships including such topics as dissolution of the partnership, sale of the partnership interest, and retirement provisions. The professional partnership will be compared with the professional corporation as to the advantages and disadvantages of each.
- ACCT 6159 International Taxation 3 cr.  
Prerequisite: ACCT 3152 or consent of department. A study of the major topic areas in U.S. taxation of transnational transactions. Emphasis will be placed on the law affecting individuals and corporations. Some possible topics are the foreign tax credit, source of income rules, subpart F, intercompany pricing, foreign sales corporations, etc.
- ACCT 6163 Seminar in Auditing 3 cr.  
Prerequisite: ACCT 3161. A study of advanced problems and current developments in auditing. Topics include auditing theory, practice, problems, ethics, legal environment, and other current topics.
- ACCT 6167 Internal Auditing Concepts 3 cr.  
Prerequisites: ACCT 3122 (with a grade of C or better) and consent of department. A study of the concepts and standards of internal auditing with application to problem areas. Assigned project(s) will involve the use of critical analysis of internal auditing situations. Students should apply a semester in advance for consent of the department. Students cannot receive credit for both ACCT 4167 and 6167.
- ACCT 6168 Internal and Operational Auditing 3 cr.  
Prerequisite: ACCT 3122 (with a grade of C or better) and consent of the department. Internal, operational auditing and internal auditing standards. Practical applications of internal auditing concepts through the use of readings, cases, and projects. Credit will not be given for both ACCT 4168 and 6168.
- ACCT 6169 Fraud Examination 3 cr.  
Prerequisite: Accounting 2100 or 4400 or consent of department. An analytical and case approach to the study of how and why fraud is committed, how fraudulent conduct can be deterred, and how allegations of fraud should be investigated and resolved.
- ACCT 6173 State and Local Taxation 3 cr.  
Prerequisite: Consent of the department. An examination of the state taxation of multiple-state business entities, including income taxes, sales/use taxes and property taxes. One focus of the class will be the constitutional issue of the nexus and situs, as it applies to income and sales/use taxes. In addition, the apportionment and/or allocation of income between states, as well as the determination of taxable sales and the situs of property will be covered. The taxation of e-commerce will be an area of special concern.
- ACCT 6185 Strategic Business Planning 3 cr.  
Prerequisite -- Fifteen hours of graduate Accounting classes or consent of the department. This course introduces future accounting professionals to the managerial/organizational decisions in which they may be expected to be involved. It will highlight the impact of taxes and accounting on all aspects of the corporation, from formation to liquidation. The course will be case-driven with examples taken from actual business scenarios wherever

possible. Different planning tools will be discussed, such as timing, negotiating and transforming.

ACCT 6190 Contemporary Tax Accounting Topics 3 cr.  
Prerequisite: consent of department. This course will be used to offer tax topics of current interest to the student community. Topics such as Real Estate Taxation, Taxation of Natural Resources, Tax Exempt Organizations, Tax Aspects of International Transactions, and others may be offered from time to time. May be repeated for credit three times when topics vary.

ACCT 6191 Seminar in Contemporary Accounting Topics 3 cr.  
Prerequisite: consent of department. An examination and discussion of the non-tax accounting topics of current interest. May be repeated for credit three times when topics vary.

ACCT 6192 Special Topics in Accounting 1 min. cr. -  
4 max. cr.  
An intensive study of selected special topics in Accounting. Topics will vary on the basis of contemporary needs -- as dictated by the discipline, interests of the students and interests of the instructor. Section number will correspond with credit to be earned. May be taken up to 4 times for a total of 4 credits.

ACCT 6194 Internship in Accounting 3 cr.  
Prerequisite: 15 hours of MBA courses with at least a 3.0 GPA and consent of the department. The student will work a minimum of 150 hours during the semester at the site of a participating organization that directs the intern in a specific Accounting project. Students must in addition engage in extensive outside research in the subject area related to their internship and submit a substantial report on this research reflecting a graduate level of learning. Enrollment is limited. May not be repeated for credit. Students wishing to take this course should apply a semester in advance with their research proposal and obtain approval prior to the internship semester. May not be used for degree credit in the Masters of Science in Accounting programs or as a substitute for the required accounting course in the MBA program.

ACCT 6195 Directed Study 3 cr.  
Offered each semester. Prerequisite: consent of department. Readings, conferences, reports, and a research project under the direction of a member of the graduate faculty.



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## Aerospace Studies

**AERO 1001**      The Foundations of the United States Air Force I      1 cr.  
 "The Foundations of the United States Air Force," is a survey course designed to introduce students to the United States Air Force and provides an overview of the basic characteristics, missions, and organization of the Air Force.

**AERO 1002**      The Foundations of the United States Air Force II      1 cr.  
 AERO 1002 is a survey course designed to introduce students to the United States Air Force and encourage participation in Air Force Reserve Officer Training Corps. Leadership Laboratory is mandatory for AFROTC cadets and complements this course by providing cadets with followership experiences.

**AERO 1041**      The Foundations of the United States Air Force I Leadership Laboratory      0 cr.  
 AERO 100- 400 "Leadership Laboratory (LLAB)" is a dynamic and integrated grouping of leadership developmental activities designed to meet the needs and expectations of prospective Air Force second lieutenants and complement the AFROTC academic program. It is a student planned, organized, and executed practicum conducted under the supervision of the detachment commander and commandant of cadets. 0 Credits.

**AERO 1042**      The Foundations of the United States Air Force II Leadership Laboratory      0 cr.  
 Leadership Laboratory (LLAB) is a dynamic and integrated grouping of leadership developmental activities designed to meet the needs and expectations of prospective Air Force second lieutenants and complement the AFROTC academic program. It is a student planned, organized, and executed practicum conducted under the supervision of the detachment commander and commandant of cadets.

**AERO 1201**      The Evolution of USAF Air and Space Power I      1 cr.  
 "The Evolution of USAF Air and Space Power," features topics on Air Force heritage and leaders; introduction to air power through examination of the Air Force Core Functions; and continued application of communication skills. Its purpose is to instill an appreciation of the development and employment of air power and to motivate sophomore students to transition from AFROTC cadet to Air Force ROTC officer candidate.

**AERO 1202**      The Evolution of USAF Air and Space Power II      1 cr.  
 A course designed to examine general aspects of air and space power from a historical perspective. The course covers the period from the first balloons and dirigibles to the space-age systems of the Global War on Terror.

**AERO 1241**      The Evolution of USAF Air and Space Power I Leadership Laboratory      0 cr.  
 AERO 100-400 "Leadership Laboratory (LLAB)" is a dynamic and integrated grouping of leadership developmental activities designed to meet the needs and expectations of prospective Air Force second lieutenants and complement the AFROTC academic program. It is a student planned, organized, and executed practicum conducted under the supervision of the detachment commander and commandant of cadets. 0 Credits.

**AERO 1242**      The Evolution of USAF Air and Space Power II Leadership Laboratory      0 cr.

Leadership Laboratory (LLAB) is a dynamic and integrated grouping of leadership developmental activities designed to meet the needs and expectations of prospective Air Force second lieutenants and complement the AFROTC academic program. It is a student planned, organized, and executed practicum conducted under the supervision of the detachment commander and commandant of cadets.

**AERO 3001**      Air Force Leadership Studies I      3 cr.  
 "The United States Air Force Leadership Studies," teaches cadets advanced skills and knowledge in management and leadership. Special emphasis is placed on enhancing leadership skills. Cadets have an opportunity to try out these leadership and management techniques in a supervised environment as juniors and seniors.

**AERO 3002**      Air Force Leadership Studies II      3 cr.  
 AERO 3002 is a study of leadership, management fundamentals, professional knowledge, Air Force personnel and evaluation systems, leadership ethics, and communication skills required of an Air Force junior officer. Case studies are used to examine Air Force leadership and management situations as a means of demonstrating and exercising practical application of the concepts being studied. A mandatory Leadership Laboratory complements this course by providing advanced leadership experiences in officer-type activities, giving students the opportunity to apply leadership and management principles of this course.

**AERO 3041**      Air Force Leadership Studies I Leadership Laboratory      0 cr.  
 AERO 100-400 "Leadership Laboratory (LLAB)" is a dynamic and integrated grouping of leadership developmental activities designed to meet the needs and expectations of prospective Air Force second lieutenants and complement the AFROTC academic program. It is a student planned, organized, and executed practicum conducted under the supervision of the detachment commander and commandant of cadets. 0 Credits.

**AERO 3042**      Air Force Leadership Studies II Leadership Laboratory      0 cr.  
 Leadership Laboratory (LLAB) is a dynamic and integrated grouping of leadership developmental activities designed to meet the needs and expectations of prospective Air Force second lieutenants and complement the AFROTC academic program. It is a student planned, organized, and executed practicum conducted under the supervision of the detachment commander and commandant of cadets.

**AERO 3401**      National Security Affairs/Preparation for Active Duty I      3 cr.  
 "National Security Affairs/Preparation for Active Duty," is designed for college seniors and gives them the foundation to understand their role as military officers in American society. It is an overview of the complex social and political issues facing the military profession and requires a measure of sophistication commensurate with the senior college level.

**AERO 3402**      National Security Affairs/Preparation for Active Duty II      3 cr.  
 AERO 3402 examines the national security process, regional studies, advanced leadership ethics, and Air Force doctrine. Special topics of interest focus on the military as a profession, officer ship, military justice, civilian control of the military, preparation for active duty, and current issues affecting military professionalism. Within this structure, continued emphasis is given to refining communication skills.

**AERO 3441**      National Security Affairs/Preparation for Active Duty I Leadership Laboratory      0 cr.  
 AERO 100-400 "Leadership Laboratory (LLAB)" is a dynamic and integrated grouping of leadership developmental activities designed to meet the needs and expectations of prospective Air Force second lieutenants and complement the AFROTC academic program. It is a student planned, organized, and executed practicum conducted under the supervision of the detachment commander and commandant of cadets. 0 Credits.

**AERO 3442**      National Security Affairs/Preparation for Active Duty II Leadership Laboratory      0 cr.  
 Leadership Laboratory (LLAB) is a dynamic and integrated grouping of leadership developmental activities designed to meet the needs and expectations of prospective Air Force second lieutenants and complement the AFROTC academic program. It is a student planned, organized, and executed practicum conducted under the supervision of the detachment commander and commandant of cadets.

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University Catalogs

August 2014 Catalog

# Anthropology

ANTH 1010      Peoples of the World  
3 cr.

Offered each semester. A topical survey of tribes and cultures of the world past and present. This course is designed to acquaint the beginning student with anthropology and its various subfields. It will examine the background of several cultures at different levels of development which are now undergoing the difficult process of combining their traditional ways of life with the rapid changes imposed on them by the modern world.

ANTH 1020      Fads, Fallacies, and Human Origins  
3 cr.

A rational examination of numerous supposed ancient "mysteries" and unsolved phenomena relative to human origins using the data and methods of modern archaeology. Topics will include those areas in anthropology and archaeology made popular by sensationalist authors such as lost continents, ancient astronauts, strange stone monuments, pyramids, the Yeti and other monsters, lost races, archaeoastronomy, psychic anthropology, catastrophisms, and others. Major foci will include both the evidence for the actual causes of the phenomena and an examination of the methodology and style of pseudo-scientific sensationalist authors.

ANTH 1030      America as a Foreign Culture      3  
cr.

America examined as a foreign culture, or set of interrelated cultures, as it might be viewed by anthropologists from other nations. Topics will include an introduction to anthropology, American core values, the concept of national character, a history of ethnic groups in the United States, concepts of class stratification and culture change. The course is designed to encourage interaction between Americans and foreign students through participation in field trips to museums, festivals and other cultural events.

ANTH 1231      World Archaeology: Cultures from the Earth      3  
cr.

A worldwide survey of prehistoric cultural adaptations from the first use of bone and stone tools to the ancient mysterious civilizations of Asia, Africa, the Americas and Europe including recent archaeological discoveries: the lost cities of the Indus Valley; the megalithic temple builders of Malta; the pyramids of Egypt, Peru, and Mesoamerica; the terra cotta army of China; and the Moundbuilders of North America. Emphasis is placed on the development of technologies, social groups and the patterns of cultural development.

ANTH 2051      Human Origins  
3 cr.

Offered each semester. The origin and evolution of the human species, primates, modern human variation, prehistoric societies, and linguistic classification.

ANTH 2052      Cultural Anthropology      3  
cr.

Offered each semester. Cross-cultural, global, comparative, and critical perspectives on human behavior and culture. Diversity of human cultures from hunter-gatherers to industrialized city dwellers. Implications of sociocultural analysis of economic, social, political, symbolic, and religious systems.

<p>ANTH 2991</p> <p>cr.</p> <p>Prerequisite: consent of department. Readings, conferences, and reports under the direction of a member of the anthropology faculty.</p>	<p>Independent Work</p>	<p>1</p>
<p>ANTH 2992</p> <p>cr.</p> <p>Prerequisite: consent of department. Readings, conferences, and reports under the direction of a member of the anthropology faculty.</p>	<p>Independent Work</p>	<p>1</p>
<p>ANTH 2993</p> <p>1 cr.</p> <p>Prerequisite: consent of department. Readings, conferences, and reports under the direction of a member of the anthropology faculty.</p>	<p>Independent Work</p>	
<p>ANTH 3090</p> <p>cr.</p> <p>The examination of selected societies, culture areas, or social institutions, or theoretical topics to illustrate the anthropological perspectives to problems of applied anthropology, culture process, change, and development. Topic will vary from semester to semester. May be repeated for credit.</p>	<p>Special Topics in Cultural Anthropology</p>	<p>3</p>
<p>ANTH 3190</p> <p>The in depth study of selected aspects of physical anthropology to illustrate the anthropological approach to problems regarding the biological and/or cultural aspects of man's development. Topic will vary from semester to semester. May be repeated for credit.</p>	<p>Special Topics in Physical Anthropology</p>	<p>3 cr.</p>
<p>ANTH 3201</p> <p>cr.</p> <p>An introduction to the techniques of excavation, recording, laboratory analysis, and care of archaeological materials. Participation in the excavation of local sites.</p>	<p>Field Methods in Archaeology</p>	<p>3</p>
<p>ANTH 3215</p> <p>cr.</p> <p>The cultural development of the indigenous peoples of the United States and Canada from the earliest settlement until European conquest. Emphasis on archaeological evidence for historical reconstruction and on cultural adaptations to the physical environment.</p>	<p>North American Archaeology</p>	<p>3</p>
<p>ANTH 3295</p> <p>Prerequisite: ANTH 3201 or consent of department. Detailed instruction on the cleaning, preservation, description, classification, and curation of artifacts. The comparative analysis of archaeological materials, both historic and pre-historic and the preparation of preliminary and final site reports.</p>	<p>Laboratory Techniques for Field Archaeology</p>	<p>3 cr.</p>
<p>ANTH 3301</p> <p>cr.</p> <p>Introduction to the theory and practice of ethnographic research methods, including ethnographic interviewing, participant observation, photography, and qualitative approaches to the analysis of cultural data. Special focus on the ethics of ethnographic fieldwork. Student engage in ethnographic research.</p>	<p>Doing Ethnography</p>	<p>3</p>
<p>ANTH 3315</p> <p>cr.</p> <p>This course explores the cultures and societies of the contemporary Caribbean. A critical reading of recent ethnography will be used to examine themes such as colonial and post-colonial social structures, creolization, ethnicity, and the formation of national and pan-Caribbean identities. Particular attention will be given to popular religion, tourism, music, the growing Caribbean diaspora in North America and Europe and to ethnographic research methods in urban and applied contexts.</p>	<p>Caribbean Peoples and Cultures: Colonialism, Creolization, Diaspora</p>	<p>3</p>
<p>ANTH 3320</p> <p>Ethnographic survey of the sociocultural systems developed by the indigenous peoples of Amazonia and other lowland forests. Ecological factors, subsistence practices, social organizations, politics, cosmology, ethnohistory, myths, and belief systems. Contemporary issues of colonialism, contact, change, continuity, resistance, and</p>	<p>Amazonia: People, Culture, and Nature</p>	<p>3 cr.</p>

cultural survival, as well as issues of human rights and the destruction of the Amazonian rain forest will be examined.

ANTH 3330 Latin America: Conquest, Colonization, Empire 3 cr.  
This course examines the cultures and societies of Latin America from the Spanish Conquest to the present day.

ANTH 3340 Peoples and Cultures of Europe 3 cr.  
This course explores the cultures and societies of contemporary Europe. A critical reading of recent ethnography will be used to examine themes such as the formation of national identities, ethnicity and migration, rural life and traditionalism, family and kinship, popular religion, urban development and the problem of European unity. Particular attention will be given to ethnographic research methods in urban and applied contexts.

ANTH 3351 Peoples and Cultures of Africa 3 cr.  
The peoples and cultures of the continent, stressing sub-Saharan groups. Although some attention will be devoted to colonial era and earlier cultures, the major focus will be on the contemporary scene, including the effects of the African diaspora.

ANTH 3370 People and Culture of the Pacific 3 cr.  
The geographic setting; native cultures of the Melanesians, Polynesians and Malaysians; the influences of Asiatic and Euro-American civilizations.

ANTH 3401 Folklore 3 cr.  
A survey of traditional tales and oral literature, both in preliterate and peasant communities and in industrialized societies; the role of folk customs in modern culture. Emphasis on an independent research project on local folklore by each student.

ANTH 3737 Women: Cross-Cultural Perspectives 3 cr.  
An examination of the roles and status of women in selected world cultures with an emphasis on theory and analysis of the relationship of gender roles and behavior to economic, political, and social systems.

ANTH 3750 Food and Culture 3 cr.  
Examination of human diet and nutrition from an evolutionary and ecological perspective. The sociocultural and biological dimensions of food practices. Topics include the social roles of food: why we eat what we eat and with whom. Also discussed are food taboos and beliefs, food getting and preparation, changing food habits, contemporary problems of food production and malnutrition, and the effect of cultural and environmental influences on nutrient intake.

ANTH 3896 Senior Honors Thesis 1 min. cr. - 6 max. cr.  
Prerequisite: consent of department and director of the University Honors Program. The preparation under faculty direction of an extended research paper upon some aspect of a topic currently of concern in the field so as to meet the requirements for graduation with University Honors and Honors in Anthropology. May be repeated for up to a total of six credits. Section number will correspond with credits to be carried.

ANTH 4070 Qualitative Research 3 cr.  
Prerequisite for ANTH 4070: senior standing or beyond, preferably in an established social science discipline; prior familiarity with research methodology and prior or concurrent registration in quantitative methodology courses are also advisable. Training in applied research techniques in the social sciences. Design, writing, and analysis of research using qualitative methodology with emphasis on directed, applied evaluation research, and related interdisciplinary methods and rationales.

ANTH 4075 Life History, Identity & Autonomy 3 cr.  
An inquiry into the methods, theories and results of ethnographic life histories in anthropology. Emphasizing culture, cultural context, the "insider's view" (emics), and "native voice," life history texts are mediated representations of individuals created through "informed subjectivity." Critically examining the debates surrounding life history methods and focusing on the concepts of "autonomy," "self," and "identity," this course explores the

efficacy of using the individual as a focal unit of analysis, along with issues of representation, agency, and the construction of cultural identities. Students will engage first-hand in life history research.

**ANTH 4090**      **Advanced Topics In Cultural Anthropology**      **3 cr.**  
 An advanced, in-depth examination of selected societies, culture areas, social institutions, or theoretical topics to illustrate the anthropological perspective. Topics will vary from semester to semester. May be repeated for credit.

**ANTH 4440**      **Religion Magic and Witchcraft**      **3 cr.**  
 The comparative and cross-cultural examination of the manner in which religions function within the total cultural systems of which they form a part. Emphasis will be given both to beliefs and practices exotic to the large world religions and also to folk customs and informal interactions within Western and other complex societies.

**ANTH 4565**      **Language and Culture**      **3 cr.**  
 Language as the vehicle for culture; the influence of linguistic patterns and cultural configurations upon one another; the utility of various methods of linguistics analysis in the study of these programs.

**ANTH 4666**      **Shamanism, Curing and Healing**      **3 cr.**  
 Anthropological examination of shamanism, curing, and healing in cross-cultural perspective. Shamanic practices and belief systems are analytically and critically considered from multiple perspectives, including ethnological, historical, psychological, medical, religious, and neurological. The origins of shamanism, the use of hallucinogens, the underlying premises of curing and healing methods, the nature of shamanic belief systems, and recent trends are all considered.

**ANTH 4721**      **Cultural Resource Management and Preservation Archaeology**      **3 cr.**  
 Prerequisite for ANTH 4721: six hours of anthropology or consent of department.  
 A problem-oriented presentation of the role of cultural resource management in the larger context of environmental impact studies. Particular attention is focused on accumulative impacts, legislative directions, and avoidance measures. The function of preservation archaeology in adaptive reutilization of standing structures and neighborhood revitalization programs is considered.

**ANTH 4723**      **Historical Site Archaeology**      **3 cr.**  
 The application of the methodology and theory of field archaeology to the investigation of the material culture and settlement patterns of the colonial period and the early nineteenth century particularly in North America; the use of these data in the study of the dynamics of evolving varieties of Euro-American and Afro-American culture.

**ANTH 4761**      **Medical Anthropology**      **3 cr.**  
 Holisitc and cross-cultural examination of medical systems as systems knowledge and as theories of reality. Includes ecological, sociopolitical, historical, and comparative analyses of health and disease in human cultures in such areas as ethnomedicine, alternative medicines, shamanism, gender, and the human life cycle.

**ANTH 4765**      **Ethnicity in Contemporary Society**      **3 cr.**  
 Cross-cultural analysis of concepts of race, ethnicity and national identity. Course draws on theoretical debates within anthropology and on ethnography in Africa, Asia, Europe, North and South America in order to identify cultural contexts and process behind deployment of recent ethnic conflicts around the world and on comparative study of ethnicity, race and racism in American society. Students will develop a field project related to ethnicity in the New Orleans metropolitan area.

**ANTH 4766**      **The Anthropology of Sex and Gender**      **3 cr.**  
 Inquires into the anthropology of sex and gender in historical, evolutionary, critical, and cross-cultural perspective. The course considers anthropological theories of sex and gender in the context of social, political, economic, and biological systems. Drawing on feminist anthropological theory, the significance and meanings of diversities between cultures and within American society is examined. Topics include: the nature/nurture debate; stereotyping; sex and gender roles, erotica, sexuality; homosexuality; gender origins and social change; status and power relationships.

**ANTH 4767**      **Race & Racism: Old Problems, New Approaches**      **3 cr.**  
 Using anthropological perspectives, this course critically focuses on the "concept of race" and the practice of interpreting "races" as natural and real categories for dividing the human species based on perceivable physical differences. It examines the social construction of race in cross-cultural context, and the social, economic, religious, and political (colonial) contexts that shape it. A critical assessment of the essentialist claim that "race" is

a self-evident description of physical and sociocultural reality. Race, racism, and cultural racism examined as ideology, worldview, and cultural myth.

**ANTH 4768 Anthropology and Policy 3 cr.**  
 This course explores the links between research in cultural anthropology and policy. It will examine areas where ethnographic research has shaped social policy and debates that have defined the relationship between anthropology and government. Particular attention will be paid to research methods and presentation strategies used by anthropologists engaged in policy research. Case studies will be drawn from recent ethnographic research in urban settings including work on health policy and substance abuse housing and homelessness and community development and activism.

**ANTH 4772 Applied Anthropology 3 cr.**  
 The relevance of anthropology to business, government and local communities. Application of anthropological theories and research methods to urban social policy and human services, international and domestic development, health care, community organization, education, advocacy, tourism, market research, work environments and product design. Discussion of ethics of applied fieldwork and intervention. Students will design and carry out an applied field project in the New Orleans metropolitan area.

**ANTH 4775 Urban Anthropology 3 cr.**  
 Ethnographic approach to life in cities and to the cultures of cities. Popular myths and scholarly theories of urban life will be reviewed in light of recent ethnographic research in African, Asian, European, North and South American cities. Particular attention will be paid to cultural processes in cities, including the making of neighborhoods, the deployment of urban myths and folklore, the linking of cultural ideas about race, ethnicity and class in defining urban space, tourism, urban social policy, travel and images of cities and the making of urban consumers. Students will draw on theories and methods developed in class in order to design and carry out a field project in the New Orleans metropolitan area.

**ANTH 4777 Transnational Processes: Migrations, Borderlands, Globalization 3 cr.**  
 This course explores transnational processes contributing to the reconfiguration of communities in the contemporary world. Recent ethnographies will be used to examine international migrations, borderlands, the impact of transnational corporations and commodities on local communities and the growth of transnational social and religious movements.

**ANTH 4780 Exploring Visual Anthropology: Critical Perspectives and Interpretations 3 cr.**  
 Critical and interpretive exploration of how ethnographic film and filmmakers shape images and visions of human beings, cultures, and the human condition. Included are the history of the genre, film and ethnography in other media, and visual representations in the art and science of anthropology.

**ANTH 4790 Internship in Anthropology 3 cr.**  
 Prerequisite: Anthropology 2051 or 2052 and consent of department. Each semester the department has internships available with the Audubon Zoo research program and other museums, agencies, or industries who request student interns with a background in anthropology. Interns will meet regularly with their adviser and supervisor, both of whom evaluate the student's work. Students are expected to turn in protocols or field logs, and a research paper as well as attend appropriate training seminars. This course may be repeated once for credit for a total of six credits.

**ANTH 4801 The History of Anthropological Theory 3 cr.**  
 Critical and historical study theories of culture. Historical and contemporary schools of thought and major trends in ethnological theory, along with consideration of seminal theorists. Theoretical approaches in relation to biography, historical era, and sociocultural milieu of theorists, and to the function and purposes of anthropology in Western thought. Successful completion of this course satisfies the general degree requirements for oral competency. (For anthropology majors)

**ANTH 4825 Contemporary Archaeological Theory 3 cr.**  
 Prerequisite for ANTH 4825: Anthropology 2051 or 2052.  
 The application of anthropological theory, statistical procedures, and the analytical techniques of the natural sciences to archaeological research design, stressing contemporary developments. The relationship of archaeological data to general ethnological theory.

ANTH 4888	The Anthropology of the Body	3 cr.
<p>Explores the anthropology of the body and the body as social text. The human body is often taken for granted in the human condition. Drawing on recent interdisciplinary approaches, this course examines the ways in which social meanings and messages are shaped and controlled through the medium of "the body." Dressed, undressed, decorated, scented, mutilated, disabled, controlled, frenzied, etc., in each instance the many, perhaps infinite manifestations of the body are interpreted as providing important clues for sociocultural analysis.</p>		
ANTH 4990	Independent Study	3 cr.
<p>Prerequisite: consent of department. Readings, conferences, and reports under the direction of a member of the anthropology faculty.</p>		
ANTH 4991	Advanced Field Research in Anthropology	1 min. cr. - 6 max. cr.
<p>Offered summers only. Prerequisites: prior field research and consent of department. Amount of credit to be determined at the time of registration. Major field research, either independent or participatory, each under faculty guidance. (May be repeated once for a maximum total of six credits.) Section number corresponds to credit to be earned.</p>		
ANTH 4995	Anthropology of Contemporary Issues	3 cr.
<p>Prerequisite: senior standing and consent of department. For majors and minors in anthropology, this seminar is devoted to an exploration of issues of the modern world from the perspective of contemporary anthropological methods and theory. Weekly seminar discussions based on core readings, oral presentations, and essays prepared by students.</p>		
ANTH 5070	Qualitative Research	3 cr.
<p>Prerequisite for ANTH 4070: senior standing or beyond, preferably in an established social science discipline; prior familiarity with research methodology and prior or concurrent registration in quantitative methodology courses are also advisable. Training in applied research techniques in the social sciences. Design, writing, and analysis of research using qualitative methodology with emphasis on directed, applied evaluation research, and related interdisciplinary methods and rationales.</p>		
ANTH 5075	Life History, Identity & Autonomy	3 cr.
<p>An inquiry into the methods, theories and results of ethnographic life histories in anthropology. Emphasizing culture, cultural context, the "insider's view" (emics), and "native voice," life history texts are mediated representations of individuals created through "informed subjectivity." Critically examining the debates surrounding life history methods and focusing on the concepts of "autonomy," "self," and "identity," this course explores the efficacy of using the individual as a focal unit of analysis, along with issues of representation, agency, and the construction of cultural identities. Students will engage first-hand in life history research.</p>		
ANTH 5090	Advanced Topics In Cultural Anthropology	3 cr.
<p>An advanced, in-depth examination of selected societies, culture areas, social institutions, or theoretical topics to illustrate the anthropological perspective. Topics will vary from semester to semester. May be repeated for credit.</p>		
ANTH 5440	Religion Magic and Witchcraft	3 cr.
<p>The comparative and cross-cultural examination of the manner in which religions function within the total cultural systems of which they form a part. Emphasis will be given both to beliefs and practices exotic to the large world religions and also to folk customs and informal interactions within Western and other complex societies.</p>		
ANTH 5565	Language and Culture	3 cr.
<p>Language as the vehicle for culture; the influence of linguistic patterns and cultural configurations upon one another; the utility of various methods of linguistics analysis in the study of these programs.</p>		
ANTH 5666	Shamanism, Curing and Healing	3 cr.
<p>Anthropological examination of shamanism, curing, and healing in cross-cultural perspective. Shamanic practices and belief systems are analytically and critically considered from multiple perspectives, including ethnological, historical, psychological, medical, religious, and neurological. The origins of shamanism, the use of hallucinogens, the underlying premises of curing and healing methods, the nature of shamanic belief systems, and recent trends are all considered.</p>		
ANTH 5721	Cultural Resource Management and Preservation Archaeology	3 cr.

Prerequisite for ANTH 4721: six hours of anthropology or consent of department.

A problem-oriented presentation of the role of cultural resource management in the larger context of environmental impact studies. Particular attention is focused on accumulative impacts, legislative directions, and avoidance measures. The function of preservation archaeology in adaptive reutilization of standing structures and neighborhood revitalization programs is considered.

ANTH 5723      Historical Site Archaeology      3 cr.

The application of the methodology and theory of field archaeology to the investigation of the material culture and settlement patterns of the colonial period and the early nineteenth century particularly in North America; the use of these data in the study of the dynamics of evolving varieties of Euro-American and Afro-American culture.

ANTH 5761      Medical Anthropology      3 cr.

Holistic and cross-cultural examination of medical systems as systems knowledge and as theories of reality. Includes ecological, sociopolitical, historical, and comparative analyses of health and disease in human cultures in such areas as ethnomedicine, alternative medicines, shamanism, gender, and the human life cycle.

ANTH 5765      Ethnicity in Contemporary Society      3 cr.

Cross-cultural analysis of concepts of race, ethnicity and national identity. Course draws on theoretical debates within anthropology and on ethnography in Africa, Asia, Europe, North and South America in order to identify cultural contexts and process behind deployment of recent ethnic conflicts around the world and on comparative study of ethnicity, race and racism in American society. Students will develop a field project related to ethnicity in the New Orleans metropolitan area.

ANTH 5766      The Anthropology of Sex and Gender      3 cr.

Inquires into the anthropology of sex and gender in historical, evolutionary, critical, and cross-cultural perspective. The course considers anthropological theories of sex and gender in the context of social, political, economic, and biological systems. Drawing on feminist anthropological theory, the significance and meanings of diversities between cultures and within American society is examined. Topics include: the nature/nurture debate; stereotyping; sex and gender roles, erotica, sexuality; homosexuality; gender origins and social change; status and power relationships.

ANTH 5767      Race & Racism: Old Problems, New Approaches      3 cr.

Using anthropological perspectives, this course critically focuses on the "concept of race" and the practice of interpreting "races" as natural and real categories for dividing the human species based on perceivable physical differences. It examines the social construction of race in cross-cultural context, and the social, economic, religious, and political (colonial) contexts that shape it. A critical assessment of the essentialist claim that "race" is a self-evident description of physical and sociocultural reality. Race, racism, and cultural racism examined as ideology, worldview, and cultural myth.

ANTH 5768      Anthropology and Policy      3 cr.

This course explores the links between research in cultural anthropology and policy. It will examine areas where ethnographic research has shaped social policy and debates that have defined the relationship between anthropology and government. Particular attention will be paid to research methods and presentation strategies used by anthropologists engaged in policy research. Case studies will be drawn from recent ethnographic research in urban settings including work on health policy and substance abuse housing and homelessness and community development and activism.

ANTH 5772      Applied Anthropology      3 cr.

The relevance of anthropology to business, government and local communities. Application of anthropological theories and research methods to urban social policy and human services, international and domestic development, health care, community organization, education, advocacy, tourism, market research, work environments and product design. Discussion of ethics of applied fieldwork and intervention. Students will design and carry out an applied field project in the New Orleans metropolitan area.

ANTH 5775      Urban Anthropology      3 cr.

Ethnographic approach to life in cities and to the cultures of cities. Popular myths and scholarly theories of urban life will be reviewed in light of recent ethnographic research in African, Asian, European, North and South American cities. Particular attention will be paid to cultural processes in cities, including the making of neighborhoods, the deployment of urban myths and folklore, the linking of cultural ideas about race, ethnicity and class in defining urban space, tourism, urban social policy, travel and images of cities and the making of urban

consumers. Students will draw on theories and methods developed in class in order to design and carry out a field project in the New Orleans metropolitan area.

ANTH 5777 Transnational Processes: Migrations, Borderlands, Globalization 3 cr.

This course explores transnational processes contributing to the reconfiguration of communities in the contemporary world. Recent ethnographies will be used to examine international migrations, borderlands, the impact of transnational corporations and commodities on local communities and the growth of transnational social and religious movements.

ANTH 5780 Exploring Visual Anthropology: Critical Perspectives and Interpretations 3 cr.

Critical and interpretive exploration of how ethnographic film and filmmakers shape images and visions of human beings, cultures, and the human condition. Included are the history of the genre, film and ethnography in other media, and visual representations in the art and science of anthropology.

ANTH 5790 Internship in Anthropology 3 cr.

Prerequisite: Anthropology 2051 or 2052 and consent of department. Each semester the department has internships available with the Audubon Zoo research program and other museums, agencies, or industries who request student interns with a background in anthropology. Interns will meet regularly with their adviser and supervisor, both of whom evaluate the student's work. Students are expected to turn in protocols or field logs, and a research paper as well as attend appropriate training seminars. This course may be repeated once for credit for a total of six credits.

ANTH 5801 The History of Anthropological Theory 3 cr.

Critical and historical study theories of culture. Historical and contemporary schools of thought and major trends in ethnological theory, along with consideration of seminal theorists. Theoretical approaches in relation to biography, historical era, and sociocultural milieu of theorists, and to the function and purposes of anthropology in Western thought. Successful completion of this course satisfies the general degree requirements for oral competency. (For anthropology majors)

ANTH 5825 Contemporary Archaeological Theory 3 cr.

Prerequisite for ANTH 4825: Anthropology 2051 or 2052.

The application of anthropological theory, statistical procedures, and the analytical techniques of the natural sciences to archaeological research design, stressing contemporary developments. The relationship of archaeological data to general ethnological theory.

ANTH 5888 The Anthropology of the Body 3 cr.

Explores the anthropology of the body and the body as social text. The human body is often taken for granted in the human condition. Drawing on recent interdisciplinary approaches, this course examines the ways in which social meanings and messages are shaped and controlled through the medium of "the body." Dressed, undressed, decorated, scented, mutilated, disabled, controlled, frenzied, etc., in each instance the many, perhaps infinite manifestations of the body are interpreted as providing important clues for sociocultural analysis.

ANTH 5990 Independent Study 3 cr.

Prerequisite: consent of department. Readings, conferences, and reports under the direction of a member of the anthropology faculty.

ANTH 5991 Advanced Field Research in Anthropology 1 min. cr. - 6 max. cr.

Offered summers only. Prerequisites: prior field research and consent of department. Amount of credit to be determined at the time of registration. Major field research, either independent or participatory, each under faculty guidance. (May be repeated once for a maximum total of six credits.) Section number corresponds to credit to be earned.

ANTH 5995 Anthropology of Contemporary Issues 3 cr.

Prerequisite: senior standing and consent of department. For majors and minors in anthropology, this seminar is

devoted to an exploration of issues of the modern world from the perspective of contemporary anthropological methods and theory. Weekly seminar discussions based on core readings, oral presentations, and essays prepared by students.

**ANTH 6052      Advanced Cultural Anthropology      3 cr.**

The course is an advanced seminar on the discipline of cultural anthropology, specifically to ethnography (description and recording of cultures) and ethnology (the comparative analysis, theories and explanations of cultures.) It focuses on the relationships between culture, man, and society. Using the cross cultural, holistic, global, feminist, and comparative approaches that comprise the "anthropological perspective," students will examine human lives, social relations, and behaviors as they occur in societies and cultures everywhere. The seminar is meant to provide graduate students in the social sciences, humanities, and related disciplines with a broadly conceived foundation and understanding to the discipline of cultural anthropology.

**ANTH 6091      Advanced Research Problems In Urban Anthropology      3 cr.**

Prerequisite: consent of the department and College of Urban and Public Affairs. The application of anthropological methodology and theory in urban settings. Special attention to the analysis of significant theoretical issues, to techniques for the amelioration of critical social problems, and to cultural preservation in the broadest sense of the term. Topics will vary by semester. May be repeated once for credit. (This course is primarily intended for students in the Applied Urban Anthropology concentration of the College of Urban and Public Affairs.)

**ANTH 6801      Advanced Seminar in Cultural & Social Theory      3 cr.**

Critical and historical study of cultural and social theory. Theorists and schools of thought (including Marxism, functionalism, structuralism, historical materialism, world systems, critical theory, and globalization) will be examined.



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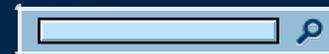
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## Arts and Sciences

- A&S 1100      French Culture and  
Civilization      3 cr.  
A study of the political, social, and cultural institutions in France, with an emphasis on contemporary civilization.
- A&S 1119      Structures of Western Thought: Ancient Greece  
3 cr.  
Prerequisite: concurrent registration in ENGL 1159 or 2279. A study of central features of ancient Greek culture: literature, philosophy, art, and science.
- A&S 2310      Rise of the West: the Middle Ages  
3 cr.  
Study of the principal social and cultural events of the Middle Ages as contributions to the formation of Western Civilization.
- A&S 2900      European Civilization: Field-Based Learning  
3 cr.  
Students live and work in a European country, study the language, culture, and history of the country, and analyze the distinctive social practices to be found. Intensive and reflective interaction with the host population is stressed. May be repeated for credit with consent of the Director of the Honors Program. Students should have previous experience with the language of the host country. This course is not to be used for independent study.
- A&S 2999      Forms of Inquiry  
1 cr.  
Introduction to various disciplinary perspectives, the current problems, theoretical underpinnings, and methods of procedure that direct diverse forms of inquiry. Scholars from the various departments will display their fields of study while addressing a common theme. May be repeated for up to three credit hours.
- A&S 3099      The Honors  
Colloquium      3 cr.  
Prerequisites: junior or senior standing and recommendation of a professor or student's dean. The subject varies. Course may be repeated once for credit.
- A&S 3999      Senior Honors  
Thesis      3 cr.  
Admission by consent of the Director of the Interdisciplinary Studies Degree Program and the Director of the University Honors Program. Directed research culminating in a written thesis to meet the requirements for graduation with University Honors or Honors in General Studies. May be repeated once for a total of six hours credit.

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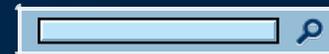
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## Arts Administration

AADM 3300      Basic Overview of Theatre for Arts Administrators      3 cr.

In this course students will understand and explore the roles of the theater in the performing arts, and to examine various producers and how they do their jobs. Students will also learn how to produce, budget, market a show and they will understand the difference between profit and not-for-profit theatre. This course also instructs students on how money is raised for a production and how a show makes or loses money.

AADM 3301      Basic Overview of Visual Arts for Arts Administrators      3 cr.

Arts Administrators play a key role in providing artists with access to the public at large, and vice versa. The goal of this course is to examine the roles arts administrators play in both for profit and non-profit arts institutions, how these institutions came to exist, and how they can survive and prosper in the future. We will examine the contemporary art market, and our major midterm assignment will focus on visual arts in New Orleans. The goal of this class is not to be an art history, or art appreciation class, but rather to gain an understanding of the institutional roles in furthering access to the visual arts.

AADM 3302      Basic Overview of Music for Arts Administrators      3 cr.

In this course students will study the business of music and explore the many roles that managers play in the industry. Students will also examine the new technology and its impact along with the financial aspects of the music business.

AADM 4300      Basic Concepts of Development for Arts Administrators      3 cr.

In this class students will learn trends and best practices in fund development and gain hands-on experience in creating a fund development plan and strategy for a 1) UNO Arts Administration special project or 2) student identified arts organization. Instruction will include information on the current state of philanthropy, giving, and the development field. Students will learn the typical fundraising strategies and explore trends and challenges in fund development. Information will be presented on engaging volunteers and board members in fund development. Students will be responsible for conducting a fundraising SWOT Analysis, developing a case statement, and identifying a development strategy for their identified project. Students will be required to conduct research and interviews outside of the classroom. Local experts and practitioners will be invited into the classroom to share best practices and lessons learned with students.

AADM 4302      Basics of Arts Marketing      3 cr.

In this course students will explore the subject of marketing, from its abstract philosophy to its day-to-day application. We'll discuss an array of marketing methods and the ways in which marketing differs between arts disciplines. A number of marketing professionals will visit our classroom to discuss their areas of expertise. Students will also evaluate the marketing efforts of various arts organizations and construct an effective marketing plan of their own that incorporates both publicity and advertising.

AADM 4303      Technology for Arts Administrators      3 cr.

Over the course of this semester, students will learn some of the underlying concepts behind much of contemporary technology and they will be introduced to some of today's industry-standard software. The course assumes the eventual obsolescence of that software, but also assumes that the next generation of programs will be modeled on their predecessors. Students will gain familiarity with image manipulation software, HTML and

some additional scripting languages, web and print publishing process, social media, third-party applications and marketing tools.

AADM 4304 Economic Context of the Arts 3 cr.

This course centers on Cultural Policy, the area of public policy-making that governs activities related to the arts and culture. This involves fostering processes, legal classifications and institutions which promote cultural diversity and accessibility, as well as enhancing and spreading the artistic, ethnic, sociolinguistic, literary and other expressions of all people, especially those of indigenous or broadly representative cultural heritage. There will be a particular focus on the real world practice and impact of cultural policy programs at the municipal, state, federal, national and international level, as well as in the private and philanthropic sectors.

AADM 4305 Arts and the Law 3 cr.

This course will cover legal issues in representing clients within the entertainment industry, highlighting business and economic considerations. The focus will be on the nature of relationships and transactions, including implications on intellectual property rights arising from contractual and other legal matters, which are common among various players from the music, film, visual and performing arts sectors. These players will include recording artists, songwriters, producers, managers/agents, record labels, publishers, filmmakers, screenwriters, visual artists, studios, etc. Emphasis will be placed on analyzing the initial development and evolution of these dynamic relationships as they are intertwined within the confines of various legal claims.

AADM 4310 Cultural and Arts Institutions Capstone / Decision Making for Arts Managers 0 cr.

This class is the final course in Performing Arts Management. The core of the course is a series of cases, each emphasizing a different aspect of arts management. Students will analyze these cases in written reports, which will be due on a weekly basis.

AADM 5223 Financial Administration and Development for Nonprofit Organizations 3 cr.

AADM 5223 and PADM 5223 are cross enrolled. A summary of financial and accounting tools needed to build and diversify resources for nonprofit organizations and to manage their fiscal affairs.

AADM 6090 Arts Administration Independent Study 1 min. cr. - 3 max. cr.

Prerequisite: Consent of Department. Research in the graduate student's area of specialization, under the direction of a designated member of the graduate faculty. Credit is only applicable toward elective requirement. May be taken up to 6 times for a maximum of 6 credit hours.

AADM 6246 Arts Technology Overview 3 cr.

Prerequisite: Consent of Department. Introduces the student to computer uses for arts managers including data processing, marketing, fundraising, survey techniques and publishing. Concepts will be discussed as well as examples of industry-standard software.

AADM 6501 Development Strategies for Arts Organizations 3 cr.

Prerequisite: Consent of the program coordinator. A study of development and fund raising strategies and techniques for nonprofit arts organizations. Topics include financial management and planning; federal, state, and local grants; foundation grants; corporate support; annual fund drives and special events; capital campaigns and deferred giving. Special problems and opportunities in development are explored through case studies and projects with local arts organizations.

AADM 6502 Arts Administration: Legal and Business Applications 3 cr.

Prerequisite: consent of program coordinator. The study of several areas of law and business as they apply to the administration of the artistic institution. The subjects covered include government regulations, contracts, taxes, and insurance. This seminar is designed to examine the management of art galleries, theaters, and concert halls with an application of these legal and business considerations. Limited internship or observation opportunity in an arts organization.

AADM 6503 Marketing the Arts 3 cr.

Prerequisite: consent of the program coordinator. Application of marketing techniques to nonprofit and commercial arts organizations and products. Topics include special principles in marketing the arts, the marketing audit and marketing plan, market research and target marketing, direct mail and telemarketing, and applications to both

visual and performing arts organizations. Special problems in marketing are explored through case studies and projects with local arts organizations.

AADM 6504 An Overview to the Field of Theatre Arts 3 cr.

Prerequisite: Consent of Department. Survey of the business of theater with emphasis on types of theater organizations, responsibilities of the producer, structure and duties within the organization, and problems associated with the management of a theater.

AADM 6505 Visual Arts for Art Administrators 3 cr.

Prerequisite: admission to the M.A. administration program or consent of department. An overview of the field of visual arts. This introduction to the visual arts will include the terminology and criteria for aesthetic evaluation, the materials and processes of painting, sculpture, graphic arts, and architecture, an historical survey, and consideration of management principles and practices appropriate to the visual arts. Lectures will be supplemented by visits to local galleries and museums. Intended as a distributive component in the M.A. administration program, this course may not be taken for graduate credit toward the M.F.A. in Fine Arts.

AADM 6506 A Music Overview for Arts Administrators 3 cr.

Prerequisite: Consent of Department. A survey of the music business with emphasis on the many aspects of the recording industry, live performing arts and the local music scene.

AADM 6601 Writing & Presentation for Arts Administrators 3 cr.

Prerequisite: Consent of Department. A study of the language and distinctive message designs for writing and public presentation responsibilities of arts administrators. Topics include grant writing, promotional literature copy, press releases, contract basics, business and project plans and proposals, annual reports, mission and strategy statements, public speaking, presentations to boards and senior staff and sales pitches, and will involve use of technologies such as Powerpoint and Prezi.

AADM 6603 Arts, Artists and Administrators 3 cr.

Prerequisite: Consent of Department. Exploration of the artistic creative process and mindset of artists in both visual and performing arts disciplines, the artist's physical and psychic needs both in creating art and performing for the public, and the dynamics of interaction between artists and arts administrators.

AADM 6609 Arts and Community 3 cr.

Prerequisite: Consent of Department. This course will explore the depth and intricacies of relationships among artists, arts organizations and the communities in which they are embedded and which they seek to serve. Additionally, knowledge about the broad range of ways in which the arts play a role in civic and community life outside of institutions will help shift students' understanding about the changes in the arts and cultural landscapes that are taking place. Through case studies the students will learn about specific programs, including ones where artists are taking the lead, including independent producing and entrepreneurial arts programming which is thriving outside of institutional settings.

AADM 6690 Arts Administration Special Topics 1 min. cr. - 3 max. cr.

Prerequisite: consent of department. Specific areas of interest will be studied under the direction of a faculty member. Topics may vary from semester to semester. This course may be repeated, but total credit may not exceed six semester hours.

AADM 6900 Practicum in Arts Administration 1 min. cr. - 3 max. cr.

Prerequisite: consent of department. Supervised experience in various fields of Arts Administration. Amount of credit to be stated at the time of registration. May be repeated for a total of up to six hours. May be taken up to 6 times for a maximum of 6 credit hours.

AADM 6990 Internship in Arts Administration 6 cr.

Prerequisites: enrollment in the master's program in Arts Administration and satisfactory completion of comprehensive examination. A supervised program for students completing the degree in Arts Administration in which participants gain experience in most aspects of the management of an arts institution ranging from ticket sales to contract negotiations. Objectives are set and evaluation is accomplished jointly by the program coordinator, the student, and the on-site supervisor. A research report on the internship is required.

AADM 7040 Examination or Report Only No credit

0 cr.

Open to students in a thesis program who have only (other than application for degree) the final typing and acceptance by the Graduate School of their thesis or dissertation or to students in a non-thesis program who have only (other than application for degree) to pass the final examination to complete graduation requirements.



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	Genetics	3 cr.
	Prerequisites: C or better in BIOS 2014 and 2114. An integration of Mendelian and molecular genetics, population genetics, and molecular evolution.	
BIOS 3490	Special Topics in Physiology and Cell Biology	1 min. cr. - 4 max. cr.
	Prerequisite: C or better in BIOS 2114 and consent of department. Prerequisite information must be obtained from the departmental office prior to registration. Treatments of specialized subjects in physiology, biochemistry, cell and molecular biology. Topics will vary. Lecture and/or laboratory. May be repeated for credit.	
BIOS 3590	Special Topics in Organismic Biology	1 min. cr. - 4 max. cr.
	Prerequisite: C or better in BIOS 2014 and consent of department. Prerequisite information must be obtained from the departmental office prior to registration. Treatment of specialized subjects in ecology, evolution and systematics. Topics will vary. Lecture and/or laboratory. A field service fee may be required in this course. May be repeated for credit.	
BIOS 3653	General Ecology	3 cr.
	Prerequisite: C or better in BIOS 2014. A study of the relationships between organisms and their environment. Three hours of lecture. An independent research project and/or field trips outside of the class may be required.	
BIOS 3854	General Botany	4 cr.
	Prerequisite: C or better in BIOS 2014 and 2114. A survey of the plant kingdom emphasizing classification, structure, and function. Three hours lecture and three hours of laboratory.	
BIOS 3953	General Parasitology	3 cr.
	Prerequisite: C or better in BIOS 2114. This course is designed to provide students with a very general perspective on a common way of life, parasitism. Emphasis is on general principles with related information on the biology, physiology, morphology, and ecology of the major parasites of humans and domestic animals. Detailed treatment of organisms that have a major economic and social impact, along with related aspects of global health and socioeconomic issues.	
BIOS 4010	Senior Comprehensive Examination	0 cr.
	Open to Biological Sciences majors with senior standing only. Graduating seniors must complete a comprehensive departmental examination and take the ETS Major Field Test, Biology (students pay cost). If a student has taken the GRE Biology Subject Exam, MCAT, DAT, that score may also be submitted. Students will attend an organizational meeting during the second week of class to discuss guidelines for completion of the course.	
BIOS 4091	Senior Honors Thesis	1 min. cr. - 3 max. cr.
	Prerequisites: C or better in 15 hours of biology credits and consent of department. Students who wish to write a Senior Honors Thesis in order to graduate With Honors in Biological Sciences also need the approval of the director of the Honors Program. Limited to outstanding undergraduate students who have a minimum of a 3.50 grade point average in biological sciences. Independent research conducted in conjunction with biology faculty. A written report must be submitted and defended at the completion of the project. Not available for graduate credit, nor may BIOS 4091 credit be used to satisfy the departmental requirement for 4000-level biology credit. May be taken multiple times for a maximum of six credits in biology. Additional credit hours may be taken for general elective credit.	
BIOS 4103	Biochemistry I	3 cr.
	(BIOS 4103 and CHEM 4510 are cross-listed). Prerequisite: C or better in CHEM 2218 and BIOS 2114. The class examines major classes of biologically important molecules, including their chemical and physical properties, how simple precursors are used to make complex macromolecules, and the function of these macromolecules. Students may not receive credit for both CHEM 4510 and BIOS 4103. Three hours of lecture and one hour of	

recitation.

BIOS 4113            Biochemistry II

3 cr.

(BIOS 4113 and CHEM 4511 are cross-listed). Prerequisite: C or better in BIOS 4103 or CHEM 4510. A survey of important biochemical pathways with special emphasis on regulation and integration of metabolism. Three hours of lecture and one hour of recitation

BIOS 4114            Biochemistry and Molecular Biology Laboratory

4

cr.

Prerequisites: C or better in BIOS 3453. An introduction to biochemical and molecular biological laboratory techniques including enzymology, electrophoresis, column chromatography, tissue fractionation, restriction mapping, and DNA sequencing. Two hours of lecture and four hours of laboratory.

BIOS 4153            Molecular Biology

3 cr.

Prerequisite: C or better in BIOS 2114. Structure and organization of DNA and chromatin, DNA replication, repair, transcription and RNA processing, protein biosynthesis and turnover, transcriptional and post-transcriptional control mechanisms. Examples of the above topics from eucaryotic and procaryotic cells and viruses.

BIOS 4173            Molecular

Biotechnology

3 cr.

Prerequisites: Biological Sciences 2114; either Biological Sciences 3453 or 4153 recommended.

Molecular Biotechnology is a new and exciting scientific field that involves the use of living organisms for industrial processes by transferring genetic information from one organism to another to create useful products. This course will cover wide range of topics that will include genetic engineering techniques, genomics, proteomics, gene expression in prokaryotes and eukaryotes, protein engineering, protein therapeutics, molecular diagnostics, bioremediation, biofuels, transgenic plants and animals, gene therapy and regulation of biotechnology.

BIOS 4353            Comparative Animal Physiology

3

cr.

Prerequisites: C or better in BIOS 3354. A comparative study of physiological mechanisms and specialization of invertebrates and vertebrates as related to homeostasis, ecology, and phylogeny. Three hours of lecture.

BIOS 4414            Animal Development

4 cr.

Prerequisite: C or better in three biology credit hours at or above the 3000 level. A detailed examination of the evolutionary patterns and mechanisms of animal development. The underlying cellular and molecular mechanisms of development are emphasized in lecture. The laboratory portion of the course emphasizes the developmental anatomy of vertebrates. Three hours lecture, three hours laboratory.

BIOS 4490            Special Topics in Physiology and Cell Biology

1 min. cr. -

4 max. cr.

Prerequisites: C or better in BIOS 2114 and consent of department. Prerequisite information must be obtained from the departmental office prior to registration. Treatment of advanced specialized subjects in physiology, biochemistry, cell and molecular biology. Topics will vary each semester. Lecture and/or laboratory. May be repeated for credit.

BIOS 4534            Conservation

Biology

4 cr.

Prerequisite: C or better in BIOS 2014. A broad survey of how fundamental biological principles are applied to problems in conservation biology. Principal themes include the measurement and definition of biological diversity, population ecology and genetics, systematics, evolutionary biology, population viability analysis, reserve design, ex situ strategies, environmental law and the human dimension in conservation. Three hours of lecture and three hours lab. Some field trips also included.

BIOS 4543            Habitats, Organisms &

Biodiversity

3 cr.

Prerequisite: C or better in BIOS 2014 and C or better in at least one 3000-4000 BIOS course. This course focuses on large-scale patterns of global habitats and biological diversity and covers systematics, basics of



recitation.

BIOS 5113            Biochemistry II

3 cr.

(BIOS 4113 and CHEM 4511 are cross-listed). Prerequisite: C or better in BIOS 4103 or CHEM 4510. A survey of important biochemical pathways with special emphasis on regulation and integration of metabolism. Three hours of lecture and one hour of recitation

BIOS 5114            Biochemistry and Molecular Biology Laboratory

4 cr.

Prerequisites: C or better in BIOS 3453. An introduction to biochemical and molecular biological laboratory techniques including enzymology, electrophoresis, column chromatography, tissue fractionation, restriction mapping, and DNA sequencing. Two hours of lecture and four hours of laboratory.

BIOS 5153            Molecular

Biology

3 cr.

Prerequisite: C or better in BIOS 2114. Structure and organization of DNA and chromatin, DNA replication, repair, transcription and RNA processing, protein biosynthesis and turnover, transcriptional and post-transcriptional control mechanisms. Examples of the above topics from eucaryotic and procaryotic cells and viruses.

BIOS 5173            Molecular Biotechnology

3 cr.

Prerequisites: Consent of department. Molecular Biotechnology is a new and exciting scientific field that involves the use of living organisms for industrial processes by transferring genetic information from one organism to another to create useful products. This course will cover wide range of topics that will include genetic engineering techniques, genomics, proteomics, gene expression in prokaryotes and eukaryotes, protein engineering, protein therapeutics, molecular diagnostics, bioremediation, biofuels, transgenic plants and animals, gene therapy and regulation of biotechnology.

BIOS 5353            Comparative Animal Physiology

3 cr.

Prerequisites: C or better in BIOS 3354. A comparative study of physiological mechanisms and specialization of invertebrates and vertebrates as related to homeostasis, ecology, and phylogeny. Three hours of lecture.

BIOS 5414            Animal Development

4 cr.

Prerequisite: C or better in three biology credit hours at or above the 3000 level. A detailed examination of the evolutionary patterns and mechanisms of animal development. The underlying cellular and molecular mechanisms of development are emphasized in lecture. The laboratory portion of the course emphasizes the developmental anatomy of vertebrates. Three hours lecture, three hours laboratory.

BIOS 5490            Special Topics in Physiology and Cell Biology

1 min. cr. - 4

max. cr.

Prerequisites: C or better in BIOS 2114 and consent of department. Prerequisite information must be obtained from the departmental office prior to registration. Treatment of advanced specialized subjects in physiology, biochemistry, cell and molecular biology. Topics will vary each semester. Lecture and/or laboratory. May be repeated for credit.

BIOS 5534            Conservation Biology

4

cr.

Prerequisite: C or better in BIOS 2014. A broad survey of how fundamental biological principles are applied to problems in conservation biology. Principal themes include the measurement and definition of biological diversity, population ecology and genetics, systematics, evolutionary biology, population viability analysis, reserve design, ex situ strategies, environmental law and the human dimension in conservation. Three hours of lecture and three hours lab. Some field trips also included.

BIOS 5543            Habitats, Organisms & Biodiversity

3

cr.

Prerequisite: C or better in BIOS 2014 and C or better in at least one 3000-4000 BIOS course. This course focuses on large-scale patterns of global habitats and biological diversity and covers systematics, basics of





BIOS 6083	Topics in Conservation Biology	1 min. cr. - 4 max. cr.
Prerequisite: consent of department. In-depth lectures, literature based discussions, and laboratory or field exercises on selected topics on current interest and application in conservation biology. Topics may include endangered species, parasitic organisms and conservation biology, conservation of aquatic communities, conservation of plant biodiversity, and wetland restoration. May be repeated or credit.		
BIOS 6090	Biological Problems	1 min. cr. - 4 max. cr.
Prerequisite: Consent of department. Independent studies by written approval of the departmental graduate program committee and the supervising professor. This course may not be taken under the direction of the student's thesis advisor. Students enrolled in the M.S. or Ph.D. programs in Biological Sciences may earn a maximum of four credit hours in this course.		
BIOS 6091	Graduate Seminar	1 cr.
Prerequisite: Consent of department. Students present their recent research, discuss peer research, and attend departmental seminars on timely topics in the biological sciences. M.S. and Ph.D. students will enroll in BIOS 6091 every regular semester in residence, present their research at least once per academic year, and earn a minimum of four credits in BIOS 6091. May be repeated for credit.		
BIOS 6093	Topics in Integrative Biology	1 min. cr. - 4 max. cr.
Prerequisite: consent of department. In-depth lectures and literature-based discussions on selected topics in integrative biology. Topics may include methods in integrative biology, process and patterns of biological adaptation, unifying principles in ecology and organismal biology, evolutionary ecology and genetics, comparative and functional genomics, systems biology, and biological modeling. May be repeated for credit.		
BIOS 6103	Molecular Biology	3 cr.
Prerequisites: consent of the department. A study of the molecular biology of gene expression in both prokaryotes and eukaryotes. This course will explore details of DNA replication, recombination, mutagenesis, DNA repair, the structure of viral, prokaryotic and eukaryotic genes, and the transcriptional control of gene expression. Selected examples from literature will be discussed.		
BIOS 6303	Cryobiology	3 cr.
Prerequisites: BIOS 4334, 4413, CHEM 1017, 1018 and consent of department. Fundamental physiology as it applies to cells and tissues exposed to near-zero and sub-zero temperatures and to non-physiological solutions and to crystalline and vitrified solutions.		
BIOS 6513	Systematics	3 cr.
Prerequisite: consent of the department. A review of the principles, practices, and applications of systematics. Topics may include systematic theory, species concepts, speciation, phylogeny reconstruction, principles and practices of classification, conservation units, and historical biogeography. Three hours of lecture and discussion.		
BIOS 7000	Thesis Research	1 min. cr. - 9 max. cr.
Offered each semester. By arrangement with the graduate adviser. May be repeated for credit until thesis is accepted. Three hours of laboratory work per credit hour.		
BIOS 7040	Examination or Thesis Only No credit	0 cr.
Open to students in the thesis program who have only (other than application for degree) the final typing and acceptance by the Graduate School of their thesis or dissertation or to students in a non-thesis program who have only (other than application for degree) to pass the final examination to complete graduation requirements.		
BIOS 7050	Dissertation Research	1 min. cr. - 9

max. cr.

Prerequisite: Approval of the candidate's guidance committee. Preparation of dissertation under the direction of the major professor and guidance committee. May be repeated for credit until dissertation is accepted.



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## Business Administration

BA 1000	Introduction to Business Administration	3
cr.		
An elementary survey of business administration. Introduces the business or non-business major to basic concepts of economics, business management and decision-making in the functional areas of production, marketing, and finance. Emphasis on the effects of social, ethical, economic, technological, political, and economic environmental factors upon business operation. Not open to students enrolled in a degree program in the College of Business Administration who have completed 30 hours of University credit or more.		
BA 1001	Introduction to Entrepreneurship	3
cr.		
This course will focus on the nature of entrepreneurship and its role in business enterprise and economic development. The entrepreneur and the steps in starting a business: the business idea, opportunity recognition, screening and the basics of the business plan are covered. Special issues related to the family business, franchising and female minority entrepreneurs are addressed.		
BA 2780	Application Software for Business	3 cr.
Offered each semester. Prerequisite: MATH 1115 or higher, or a minimum ACT MATH score of 22 or SAT MATH score of 520. Computer techniques needed to solve business problems. Use of spreadsheets and databases to support business decision making. Data transfer between computer systems and data retrieval from business databases. Fundamentals of procedure oriented programming.		
BA 3001	Essentials of Entrepreneurship	3
cr.		
Prerequisites: ECON 1203, MANG 3401, BA 2780, MKT 3501. This course helps students start small businesses. The student is introduced to the mind set and characteristics of the entrepreneur. The steps in the entrepreneurial process are viewed from a theoretical and practical perspective. Topics to be covered include opportunity recognition and assessment, the use of screening techniques, the elements in a business plan, strategies used to gain control over resources, team leadership, and the sources of funding from angel and venture capital investors, and bankers. Other topics include structuring the deal, managing the high growth company and harvesting the venture. This course is experiential in nature. In addition to traditional lectures and case studies, field projects, interactions with entrepreneurs and laboratory-type exercises are used.		
BA 3010	The Legal Environment of Business	3
cr.		
Offered each semester. Nature and function of law and legal institutions in society, with emphasis on those areas of law most relevant to business operations. Topics include the court systems, torts, the Constitution and business administrative agencies, international law, labor law, antitrust law, and environmental law. A student may not receive credit for both BA 3010 and BA 4400.		
BA 3021	Business Law	3 cr.
Offered each semester. Prerequisite: BA 3010. Legal concepts relating to sales, commercial paper, anti-trust,		

bankruptcy, forms of business organizations, insurance, real property, secured transactions, suretyship, wills, estates, and trusts are presented as issues relating to specific business situations. Problems relating to financial reporting responsibilities and the growing role of federal securities regulation on the business community are also discussed.

BA 3056                      Managerial Skills For Entrepreneurs                      3  
cr.

Prerequisite: junior standing or consent of instructor. This course will focus on the development of managerial skills and behaviors of successful entrepreneurs in small organizations. Students will examine major internally-orientated topics (e.g goal setting, leadership, managing growth and overcoming adversity) and external topics (e.g, networking, negotiating, working with your banker.) The course will be taught by extensive use experiential exercises, case discussions, field trips, and guest lectures by entrepreneurs.

BA 3080                      Corporate Social Responsibility                      3 cr.

Offered each semester. Investigates the elements which form the ethical standards of the United States corporate community and the philosophical, religious, and cultural roots of such standards. Reading in ethical problems of advertising, pricing, automation, and business involvement in solution of social problems. Includes case studies and simulations.

BA 3090                      Internship in Entrepreneurship                      3  
cr.

Prerequisite: Consent of department. This course will permit undergraduates to be engaged in at least ten hours per week at the site of a private sector organization that directs interns in specific projects or job duties relating to entrepreneurial activities. There are no textbooks and no formal class meetings, although students are required to meet one-on-one with the instructor to review their progress. Students prepare a major written report on their experience.

BA 3091                      Independent Study in Entrepreneurship                      3  
cr.

Prerequisite: consent of department. This tutorial is arranged individually in order to provide the opportunity for specialized study and research on topics in entrepreneurship. The faculty member will arrange a study/research proposal with each student in the initial meeting. Weekly project reports, meetings, and a research paper are required.

BA 4048                      International Business Law                      3 cr.

Prerequisite: BA 3010. Law as it relates to international business organizations and commercial transactions. Among the subjects covered are sovereign immunity and international treaties and agreements; foreign antitrust laws and unfair trade practices; protection of property rights of American subsidiaries abroad; alien investment in the United States; foreign relations law; trade liberalization; and international arbitration.

BA 4056                      Business Planning                      3  
cr.

Prerequisite: senior standing or consent of instructor. An examination of the crucial factors involved in the conception, initiation, and development of new business ventures. The elements of a business plan for a new venture are examined. Topics include the nature of entrepreneurs and entrepreneurship, market and feasibility analysis, sources of money, financial analysis and planning, ownership forms and tax considerations, and staffing and organization of the firm. A major requirement will be the development of a business plan for a new venture.

BA 4076                      Small Business Consulting                      3 cr.

Prerequisite: MANG 3401 and MKT 3501 or consent of department. A supervised learning practicum where students can apply academic knowledge in a small business situation. Hands-on experience through a consulting assignment with a small business client. Participating businesses and student teams must develop jointly a proposal which addresses the problems of concern to the entrepreneur.

BA 4400                      The Legal and Ethical Environment of Business                      3  
cr.

A survey of basic legal and ethical topics in the areas of Constitutional law, torts, administrative agency law, contract law, international law, commercial paper law, agency law, business organizations law, antitrust and securities laws. Provides an introduction to fundamental legal and ethical concepts for pre-MBA students who

have not had prior course work in these areas. Not open to undergraduate College of Business Administration majors. A student may not receive credit for both BA 3010 and BA 4400. May not be taken for graduate credit.

**BA 5048 International Business Law**

3 cr.

Prerequisite: BA 3010. Law as it relates to international business organizations and commercial transactions. Among the subjects covered are sovereign immunity and international treaties and agreements; foreign antitrust laws and unfair trade practices; protection of property rights of American subsidiaries abroad; alien investment in the United States; foreign relations law; trade liberalization; and international arbitration.

**BA 5056 Business Planning**

3 cr.

Prerequisite: senior standing or consent of instructor. An examination of the crucial factors involved in the conception, initiation, and development of new business ventures. The elements of a business plan for a new venture are examined. Topics include the nature of entrepreneurs and entrepreneurship, market and feasibility analysis, sources of money, financial analysis and planning, ownership forms and tax considerations, and staffing and organization of the firm. A major requirement will be the development of a business plan for a new venture.

**BA 5076 Small Business Consulting**

3 cr.

Prerequisite: MANG 3401 and MKT 3501 or consent of department. A supervised learning practicum where students can apply academic knowledge in a small business situation. Hands-on experience through a consulting assignment with a small business client. Participating businesses and student teams must develop jointly a proposal which addresses the problems of concern to the entrepreneur.

**BA 6010 Health Care Management**

3 cr.

A survey of the effective management of health care organizations. Classical managerial functions and principles are examined in the light of the latest contingency theories and findings of the behavioral scientists.

**BA 6011 Human Resource Management in Health Care Settings 3**

cr.

A broad study of the theories, techniques and legal environment pertaining to modern personnel management in health care settings. A student may not receive credit for both BA 6011 and MANG 6467.

**BA 6012 Organization Behavior in the Health Care Realm**

3 cr.

The study of organizational behavior and enhancement of interpersonal competence in health care settings.

**BA 6013 Strategic Issues in Health Care Organizations 3**

cr.

Prerequisite: Final semester in Health Care Management Program. A survey of strategic management and situational analysis of health care organizations. The need and rationale for strategic management in today's turbulent health care environment and how strategy is translated to practical solutions of health care industry problems.

**BA 6014 Business Topics in Health Care Management 3 cr.**

A survey of various topics in Accounting and Finance relevant to students in the M.S. program in Health Care Management who do not have a business background. The course is not open to students in the MBA program.

**BA 6080 Business and Society**

3 cr.

A review of the major ethical questions of business. Discusses the structures of society upon business action and the place of social responsibility in corporate objectives.

**BA 6097 Special Topics in Business Administration 1 min. cr. - 4**

max. cr.

An intensive study of selected special topics in Business Administration. Topics will vary based on contemporary needs as dictated by the discipline as well as the interests of the students and the instructors. Section number will correspond with credit to be earned. May be repeated up to six as long as the course content for each is different.




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## Chemistry

CHEM 1000 Freshman Seminar for Chemistry

Majors 1 cr.

This course is required for all freshman chemistry majors and transfer students and is restricted to chemistry majors. Others may enroll only with permission of the department. Weekly discussion course to familiarize freshman chemistry majors with career options, current research topics in the chemical sciences, chemical safety issues, scientific ethics, literature resources, and other topics related to the study of chemistry. Pass/Fail grading. One hour of seminar per week.

CHEM 1001 Lights, Camera, ACTION: The Chemistry of Movies and

TV 3 cr.

Not offered for credit to fulfill science requirements of students enrolled in the College of Sciences, Allied Health Program, or Science Education. This course fulfills three credits of science requirement for non-science majors. This course will explore how chemistry is portrayed in TV and movies. Students will take basic chemistry principles and learn how to apply them to pop-culture references.

CHEM 1002 Life, The Universe and Everything: Chemistry of our Daily

Lives 3 cr.

Not offered for credit to fulfill science requirements of students enrolled in the College of Sciences, Allied Health Program, or Science Educations. This course fulfills three credits of science requirement for non-science majors. This course will explore how chemistry affects our daily lives. Students will take basic chemistry principles and learn how to apply them to everyday phenomena such as cooking, energy, nuclear reactors and weapons, biochemical processes and many other chemistry related phenomena.

CHEM 1007 General Chemistry Laboratory

I 1 cr.

Prerequisite: Eligibility for MATH 1125 OR C or Better in Math 1115 or Higher(The lab supplements and reinforces CHEM 1017 and concurrent enrollment in CHEM 1017 is recommended). General chemistry laboratory covering basic principles of laboratory investigations and illustrations of the course content of general chemistry. Three hours of laboratory.

CHEM 1008 General Chemistry Laboratory

II 1 cr.

Prerequisite: C or better in CHEM 1007 and CHEM 1017 (The lab supplements and reinforces CHEM 1018 and concurrent enrollment in CHEM 1018 is recommended). Second semester of general chemistry laboratory covering basic principles of laboratory investigations and illustrations of the course content of general chemistry. Three hours of laboratory.

CHEM 1012 Introductory

Chemistry 3 cr.

Prerequisite: Eligibility for enrollment in MATH 1115. An introduction to basic chemistry concepts based on issues relevant to society. Intended for non-science majors, including education majors not specializing in science. Credit for both CHEM 1012 and 1017 will not be allowed. Three hours of lecture.





Chemistry 3 cr.

Prerequisites: C or better in CHEM 2217. The application of chemical knowledge and analysis techniques to crimes and crime scenes. Includes topics such as sampling, data quality, calibration, sample preparation, and analytical techniques. Three hours of lecture.

CHEM 3218 Organic Chemistry II 3 cr.

Prerequisite: C or better in CHEM 2217. (It is recommended that students who take this course also take CHEM 2018 concurrently). CHEM 2218 is the continuation of CHEM 2217. Emphasis is placed on the reactivity of the major functional groups encountered in organic chemistry. Topics will include the reactions of aromatic compounds, carbonyl compounds and amines. The course will also introduce the organic chemistry of amino acids and proteins, lipids carbonhydrates, and nucleic acids. Three hours of lecture and one hour of recitation.

CHEM 3310 Principles of Physical Chemistry 3 cr.

Prerequisite: C or better in CHEM 1018, and C or better in MATH 2114 or MATH 2111 or MATH 2108 (It is recommended that students who take this course also have a C or better or take PHYS 1061 concurrently). An introduction to the principles and techniques of physical chemistry including thermodynamics, chemical kinetics, quantum mechanics, and atomic and molecular spectroscopy. Three hours of lecture.

CHEM 3411 Descriptive Inorganic Chemistry 3 cr.

Prerequisite: C or better in CHEM 1018. (It is recommended that students who take this course also take CHEM 3027 concurrently. Credit for CHEM 3218 is also recommended). A survey of modern inorganic chemistry as it relates to the periodic table in general, emphasizing the reactivity, mechanisms, and structure of elements and their compounds. Three hours of lecture.

CHEM 3610 Materials Chemistry 3 cr.

Prerequisite: C or better in CHEM 1018. Physical and chemical properties of solids are explored with respect to chemical bonding. Topics include: microstructures; classes of materials; magnetic, electronic, optical, and thermal properties. Three hours of lecture.

CHEM 3710 Medicinal Chemistry 3 cr.

Prerequisites: C or better in BIOS 2114 and CHEM 3218. An introduction to modern medicinal chemistry with a focus on the fundamental chemical principles used for drug discovery and design. The course will cover various aspects of drug structure, synthesis, pharmacology, physiology, and biology. Three hours of lecture.

CHEM 4000 Senior Comprehensive Examination 0 cr.

Prerequisite: Open to Chemistry majors with senior standing only. Students must complete a departmental checkout along with taking the ETS Major Field Test, Chemistry. The purpose of the Senior Comprehensive Examination is to assess student learning outcomes associated with the undergraduate degree in Chemistry.

CHEM 4028 Physical Chemistry Laboratory 3 cr.

Prerequisites: C or better in CHEM 1008 and CHEM 3310. A laboratory course concentrating on the experimental study of thermodynamics and kinetics of chemical reactions, as well as spectroscopic, magnetic, and electric properties of substances. One hour of lecture and six hours of laboratory.

CHEM 4030 Laboratory Methods in Instrumental Analysis 3 cr.

Prerequisite: C or better in CHEM 2025, 2117 and C or better or concurrent enrollment in CHEM 4110. A laboratory class concentrating on modern instrumentation techniques focusing on ICP, HPLC, GC-MS and other techniques. One hour of lecture and six hours of laboratory.

CHEM 4110 Instrumental Analysis 3 cr.

Prerequisite: C or better in CHEM 2117 and 3310. An introduction to physiochemical and industrial methods of

analysis. Three hours of lecture.

CHEM 4210 Intermediate Organic Chemistry

3 cr.

Prerequisite: C or better in CHEM 3218. A broad selection of topics such as stereochemistry, reaction mechanisms, synthesis, spectroscopy, literature searching, and nomenclature. Three hours of lecture.

CHEM 4310 Physical  
Chemistry

4 cr.

Prerequisites: C or better in CHEM 3310, PHYS 1062 and MATH 2124 or MATH 2112 or MATH 2109. Principles of quantum mechanics and spectroscopy. Four hours of lecture.

CHEM 4311 Physical  
Chemistry

4 cr.

Prerequisites: C or better in CHEM 3310, PHYS 1062 and MATH 2124 or MATH 2112 or MATH 2109. Principles of chemical thermodynamics and kinetics. Four hours of lecture.

CHEM 4410 Advanced Physical Inorganic Chemistry

3 cr.

Prerequisite: C or better in CHEM 3310. A study of the fundamental physical concepts and theory of atomic structure, group theory, bonding, magnetism, and spectroscopy essential to a concrete understanding of modern inorganic chemistry.

CHEM 4510 Biochemistry

I

3 cr.

(CHEM 4510 and BIOS 4103 are cross-listed) Prerequisite: C or better in CHEM 3218 and BIOS 2114. This class examines major classes of biologically important molecules, including their chemical and physical properties, how simple precursors are used to make complex macromolecules, and the function of these macromolecules. Students may not receive credit for both CHEM 4510 and BIOS 4103. Three hours of lecture and one hour of recitation.

CHEM 4511 Biochemistry

II

3 cr.

(CHEM 4511 and BIOS 4113 are cross-listed). Prerequisite: C or better in CHEM 4510 or BIOS 4103. A survey of important biochemical pathways with special emphasis on regulation and integration of metabolism. Students may not receive credit for both CHEM 4511 and BIOS 4113. Three hours of lecture and one hour of recitation.

CHEM 5028 Physical Chemistry

Laboratory

3 cr.

Prerequisites: C or better in CHEM 1008 and CHEM 3310. A laboratory course concentrating on the experimental study of thermodynamics and kinetics of chemical reactions, as well as spectroscopic, magnetic, and electric properties of substances. One hour of lecture and six hours of laboratory.

CHEM 5030 Laboratory Methods in Instrumental Analysis

3 cr.

Prerequisite: C or better in CHEM 2025, 2117 and C or better or concurrent enrollment in CHEM 4110. A laboratory class concentrating on modern instrumentation techniques focusing on ICP, HPLC, GC-MS and other techniques. One hour of lecture and six hours of laboratory.

CHEM 5110 Instrumental  
Analysis

3 cr.

Prerequisite: C or better in CHEM 2117 and 3310. An introduction to physiochemical and industrial methods of analysis. Three hours of lecture.

CHEM 5210 Intermediate Organic  
Chemistry

3 cr.

Prerequisite: C or better in CHEM 3218. A broad selection of topics such as stereochemistry, reaction mechanisms, synthesis, spectroscopy, literature searching, and nomenclature. Three hours of lecture.

CHEM 5310 Physical

Chemistry 4 cr.  
Prerequisites: C or better in CHEM 3310, PHYS 1062 and MATH 2124 or MATH 2112 or MATH 2109. Principles of quantum mechanics and spectroscopy. Four hours of lecture.

CHEM 5311 Physical Chemistry 4 cr.  
Prerequisites: C or better in CHEM 3310, PHYS 1062 and MATH 2124 or MATH 2112 or MATH 2109. Principles of chemical thermodynamics and kinetics. Four hours of lecture.

CHEM 5410 Advanced Physical Inorganic Chemistry 3 cr.  
Prerequisite: C or better in CHEM 3310. A study of the fundamental physical concepts and theory of atomic structure, group theory, bonding, magnetism, and spectroscopy essential to a concrete understanding of modern inorganic chemistry.

CHEM 5510 Biochemistry I 3 cr.  
(CHEM 4510 and BIOS 4103 are cross-listed) Prerequisite: C or better in CHEM 3218 and BIOS 2114. This class examines major classes of biologically important molecules, including their chemical and physical properties, how simple precursors are used to make complex macromolecules, and the function of these macromolecules. Students may not receive credit for both CHEM 4510 and BIOS 4103. Three hours of lecture and one hour of recitation.

CHEM 5511 Biochemistry II 3 cr.  
(CHEM 4511 and BIOS 4113 are cross-listed). Prerequisite: C or better in CHEM 4510 or BIOS 4103. A survey of important biochemical pathways with special emphasis on regulation and integration of metabolism. Students may not receive credit for both CHEM 4511 and BIOS 4113. Three hours of lecture and one hour of recitation.

CHEM 6007 Experimental Chemistry for Teachers III 3 cr.  
Prerequisite: consent of department. A course for science teachers that provides an opportunity to participate in contemporary scientific research in chemistry and materials science. Includes individual laboratory research under the guidance of a UNO faculty member and teaching resource meetings which develop methods of incorporating modern research concepts into classroom curricula. A written report and seminar presentation are required. With departmental consent, this course may be taken twice for credit.

CHEM 6090 Specialized Readings in Advanced Chemistry 1 cr.  
Offered each semester. Prerequisite: consent of department. Individually directed readings in specialized areas of chemistry with frequent consultations with the instructor. When sufficient enrollment permits a seminar and/or lecture format may be utilized. Credit for this course is not acceptable toward an M.S. degree in chemistry. A maximum of four credits may be obtained but no more than two credits per semester.

CHEM 6091 Specialized Readings in Advanced Chemistry 1 cr.  
Offered each semester. Prerequisite: consent of department. Individually directed readings in specialized areas of chemistry with frequent consultations with the instructor. When sufficient enrollment permits a seminar and/or lecture format may be utilized. Credit for this course is not acceptable toward an M.S. degree in chemistry. A maximum of four credits may be obtained but no more than two credits per semester.

CHEM 6092 Specialized Readings in Advanced Chemistry 1 cr.  
Offered each semester. Prerequisite: consent of department. Individually directed readings in specialized areas of chemistry with frequent consultations with the instructor. When sufficient enrollment permits a seminar and/or lecture format may be utilized. Credit for this course is not acceptable toward an M.S. degree in chemistry. A maximum of four credits may be obtained but no more than two credits per semester.

CHEM 6093 Specialized Readings in Advanced Chemistry 1 cr.

Offered each semester. Prerequisite: consent of department. Individually directed readings in specialized areas of chemistry with frequent consultations with the instructor. When sufficient enrollment permits a seminar and/or lecture format may be utilized. Credit for this course is not acceptable toward an M.S. degree in chemistry. A maximum of four credits may be obtained but no more than two credits per semester.

CHEM 6095 Seminar  
1 cr.

Offered each semester. All graduate students will be expected to participate in a report and discussion group in the field of chemistry of particular interest to them. May be taken for credit a maximum of six times.

CHEM 6112 Physical Methods in Analytical  
Chemistry 3 cr.

Prerequisite: CHEM 4110 or consent of department. Recent advances in physicochemical methods of analysis. CHEM 6112 covers electroanalytical techniques, including discussion of polarography, chronopotentiometry, coulometry, voltammetry, amperometry, electrode reactions, and electrode processes.

CHEM 6113 Physical Methods in Analytical  
Chemistry 3 cr.

Prerequisite: Chemistry 4110 or consent of department. Recent advances in physicochemical methods of analysis. CHEM 6113 includes a discussion of spectroscopic methods, such as IR, UV, Visible, X-rays, Mass Spectrometry, Mossbauer, EPR, NMR, Fluorescence, and Atomic Absorption.

CHEM 6115 Special Topics in Analytical Chemistry 1 min. cr.  
- 3 max. cr.

In-depth study of various topics of current importance in Analytical Chemistry. Hours of credit will be specified each semester. A student may accumulate a maximum of six credit hours for this course.

CHEM 6117 Advanced Mass  
Spectrometry 3 cr.

Prerequisite: CHEM 4110 or consent of department. A detailed examination of the theory, principles, and instrumentation of modern mass spectrometry. Three hours of lecture.

CHEM 6210 Advanced Organic Chemistry  
3 cr.

Prerequisite: CHEM 4210 or equivalent. An advanced treatment of selected areas of organic chemistry, including the literature of organic chemistry, structural concepts, analysis, reactions, and theory.

CHEM 6211 Synthetic Organic Chemistry  
3 cr.

Prerequisite: CHEM 6210 or equivalent. A study of the scope and limitations of useful reactions, including strategy for the design of multistep syntheses of complex molecules.

CHEM 6212 Structural Organic  
Chemistry 3 cr.

Prerequisite: CHEM 6210 or equivalent. The elucidation of the three-dimensional structure of organic compounds; theory and practice.

CHEM 6214 Advances in Organic  
Chemistry 3 cr.

Prerequisite: CHEM 6210 or equivalent. An examination of recent trends in various areas of organic chemistry.

CHEM 6310 Advanced Thermodynamics and  
Kinetics 3 cr.

Prerequisite: CHEM 4311 or equivalent. An advanced treatment of the fundamental principles of thermodynamics and chemical kinetics.

CHEM 6311 Statistical  
Mechanics 3 cr.

Prerequisites: CHEM 6310 and 6312 or equivalent. Methods of statistical mechanics and the application of these methods to the theoretical treatment of chemical problems.



cr.

Prerequisites: MATH 2111, CHEM 4310, and CHEM 4410, or consent of department. This course is designed to give students an introduction to the fundamental principles of electron diffraction theory and electron microscopy imaging. The course aims to teach the principles of external and internal characterization of materials by presenting the theory and operating principles of scanning electron microscope (SEM), transmission electron microscopy (TEM), and x-ray chemical microanalysis. It will include in-class lectures and laboratory experiments to give students hands-on experience of operating SEM and TEM. The content will cover atomic theory, electron optics, vacuum physics, crystallography, diffraction physics, magnetism, and imaging techniques.

CHEM 6621      Advanced Electron Microscopy for Materials Characterization      3

cr.

Prerequisites: CHEM 6620 or consent of department. This course is designed to teach the principles of Advanced Scanning Electron Microscopy, such as low kV SEM, backscatter scanning electron microscopy, scanning transmission electron microscopy (STEM), dual beam, e-beam nanolithography, electron dispersive spectroscopy (EDS) mapping, etc., and advanced transmission electron microscopy, such as crystal reconstruction through electron diffractions, convergent beam diffraction and nano-diffraction, two beam, central dark field, and weak beam imaging, high resolution electron microscopy imaging (HREM), electron energy loss spectrometer, etc. The course will include in-class lectures and laboratory experiments to give students hands-on experience of operating TEM and SEM at advanced level.

CHEM 6696      Special Topics in Materials Chemistry      1 min. cr. -

3 max. cr.

Prerequisites: CHEM 6610 or with consent of the department. In-depth study of various topics of current importance to Materials Chemistry.

CHEM 6710      Medicinal  
Chemistry      3 cr.

Offered Fall Semester. Prerequisites: Chemistry 4210 or equivalent.

An introduction to modern medicinal chemistry with a focus on fundamental chemical principles used for drug discovery and design covering various aspects of drug synthesis, pharmacology, physiology and biology.

CHEM 7000      Thesis Research      1 min.

cr. - 9 max. cr.

Offered each semester. To be repeated for credit until thesis is accepted. Section number will correspond with credit to be earned.

CHEM 7025      Procedures and Problems in Chemical Research      1 min. cr. - 9  
max. cr.

Offered each semester. Students who receive six hours of credit in Chemistry 7000 cannot obtain more than nine hours credit in this course. Open only to students of proven ability or exceptional potential. A study of experimental research methods, the design and execution of experiments, and the analysis of experimental data. Section number will correspond with credit to be earned.

CHEM 7040      Examination or Thesis  
Only      0 cr.

No credit. Open to students in a thesis program who have only (other than application for degree) the final typing and acceptance by the Graduate School of their thesis or dissertation or to students in a non-thesis program who have only (other than application for degree) to pass the final examination to complete graduation requirements.

CHEM 7050      Dissertation Research      1 min. cr. -  
9 max. cr.

Offered each semester. Prerequisite: six credits in CHEM 7000 or 7025. Section number will correspond with credit to be earned. To be repeated for credit until dissertation is accepted.

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## Chinese

CHIN 1001      Basic

Chinese 3 cr.

A sequence of courses for beginners that aims at the acquisition of the four basic language skills: speaking, understanding, reading, and writing. The mastery of the basic language structures will be achieved through aural-oral exercises and practice. The Chinese writing system will be introduced from the beginning.

CHIN 1002      Basic

Chinese 3 cr.

A sequence of courses for beginners that aims at the acquisition of the four basic language skills: speaking, understanding, reading, and writing. The mastery of the basic language structures will be achieved through aural-oral exercises and practice. The Chinese writing system will be introduced from the beginning.

CHIN 2001      Intermediate

Chinese 3 cr.

Prerequisite: CHIN 1002 or consent of instructor. Continuation of all four basic language skills: speaking, understanding, reading, and writing. This course includes the presentation and discussion of cultural material such as magazines, films, records, and other audio-visual items.



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## Civil Engineering

ENCE 2302	Civil Engineering Computing and Graphics (Lecture)	3
cr.		
Prerequisite: MATH 1126 or MATH 2114, and registration in ENCE 2303. Introduction to Fortran programming and spreadsheet design for civil engineering applications. Fundamental graphical concepts and related material as they apply to the technologies utilized in the field of civil engineering.		
ENCE 2303	Civil Engineering Computing and Graphics (Laboratory)	1
cr.		
Prerequisite: MATH 1126 or MATH 2114, and credit for or registration in ENCE 2302. Introduction to Fortran programming and spreadsheet design for civil engineering applications. Fundamental graphical concepts and related material as they apply to the technologies utilized in the field of civil engineering.		
ENCE 2310	Elementary Surveying Measurements	3
cr.		
Prerequisites: MATH 1126 or MATH 2107 or MATH 2111; credit or registration in ENCE 2301 or equivalent. Practical surveying measurement techniques are presented with suitable office computation methods for boundary, construction, and topographic surveys. State coordinate systems are introduced with proper use of geodetic datums (NAD 1927 to NAD 1983). Two hours of lecture and three hours of laboratory.		
ENCE 2311	Mechanics of Materials Laboratory	1 cr.
Offered each semester. Prerequisite: credit or registration in ENCE 2351. Selected experiments in mechanics of materials: mechanical extensometers, electric strain gauges, stress concentration, surface hardness. Three hours of laboratory.		
ENCE 2350	Statics	3
cr.		
Prerequisites: MATH 2108 or 2111 or 2124, and PHYS 1061. Vectors; two-dimensional and three-dimensional force systems; equilibrium; friction; centroids; mass moments of inertia; second moments of areas.		
ENCE 2351	Mechanics of Materials	3
cr.		
Offered each semester. Prerequisite: ENCE 2350. Simple stress and strain; shear, moments, stresses and deflections in beams; combined stresses; thermal stresses; statically indeterminate members; columns.		
ENCE 3093	Special Problems in Civil Engineering	1 cr.
Prerequisite: senior standing in engineering. Seminar, independent study, and research participation in civil engineering.		
ENCE 3094	Special Problems in Civil Engineering	1 cr.
Prerequisite: senior standing in engineering. Seminar, independent study, and research participation in civil engineering.		
ENCE 3095	Special Problems in Civil Engineering	1 cr.

Prerequisite: senior standing in engineering. Seminar, independent study, and research participation in civil engineering.

ENCE 3300            Computational Methods in Civil Engineering            3 cr.

Prerequisites: Credit in MATH 2314. Regression and correlation, hypothesis testing, modeling, computers and error analysis; interpolation, numerical differentiation and integration; and function approximation and data fitting for problems in civil and environmental engineering.

ENCE 3318            Principles of Hydraulics            3 cr.

Prerequisites: (ENCE 2301 or (ENCE 2302 and ENCE 2303)) and ENME 2750. An introductory course to the fundamentals of hydraulics and environmental water resources engineering. Fluid properties, conservative equations, flow resistance in pipes and open channels, dimensional analysis, pipe flow and pipe measurements.

ENCE 3326            Environmental Engineering Laboratory            1 cr.

Prerequisites: CHEM 1017, or equivalent chemistry course, and ENCE 3318 or ENME 3720, and credit for or registration in ENCE 3327. Basic laboratory experiments to determine water and wastewater characteristics such as total solids, suspended solids, volatile suspended solids, total dissolved solids, pH, dissolved oxygen, biochemical oxygen demand, chemical oxygen demand, alkalinity, hardness, Langelier Stability Index, turbidity, jar test to determine the optimum coagulant dosage, chlorine residual. Three hour of laboratory practices per week.

ENCE 3327            Introduction to Environmental Engineering (Lecture)            3 cr.

Prerequisites: CHEM 1017, or equivalent chemistry course, and ENCE 3318 or ENME 3720, and credit for or registration in ENCE 3326. Topics include: water quality, water and wastewater treatment processes, air pollution control, and solid and hazardous waste management.

ENCE 3340            Geotechnical Engineering            3 cr.

Prerequisites: Credit or registration in ENCE 2351, and ENCE 3318 or ENME 3720; registration in ENCE 3341. Properties and behavior of soils as engineering materials; the origin and classification of soils; permeability of soils; compressibility and strength characteristics of soils; elementary treatment of consolidation, earth pressure, and bearing capacity. Determination of engineering properties of soils in the laboratory. Two hours of lecture and three hours of laboratory.

ENCE 3341            Soil Mechanics Laboratory            1 cr.

Prerequisite: Registration in ENCE 3340 or consent of department. Properties and behavior of soils as engineering materials. Data collection, computations, and presentation of results.

ENCE 3356            Structural Analysis            4 cr.

Prerequisites: ENCE 2351 and credit or registration in ENCE 2311. Analysis of structures using manual and computer methods. Analysis of determinate and indeterminate structures subjected to static loads by the following methods: moment-area principles, virtual work, conjugate beam, moment distribution, displacement method.

ENCE 3390            Basic Project Management            3 cr.

Prerequisites: Credit or registration in ECON 2000. Civil engineering economic analysis including equivalence, cash flow diagrams, present worth, decision analysis, estimating economic life, project definition, the project manager, planning, scheduling, critical path analysis, and project evaluation and review techniques.

ENCE 3391            Construction Project Management            3 cr.

Prerequisite: Credit or registration in ECON 2000. Civil engineering involves both the design and the management of the construction of projects.

Knowledge of construction project management is important to the civil engineering profession. Topics covered in this course include: definition and attributes of a project (design or construction) including the life cycle of a project; developing project proposals and request for proposals (RFP); estimating quantities and cost; technique for scheduling and resource allocation, including network analysis; review and control of project performance; resource leveling, and schedule crashing and time-cost trade-off analysis.

ENCE 4096            Special Topics in Civil Engineering            3 cr.

Prerequisite for ENCE 4096 and 4097: junior standing in engineering. Courses may be taken for credit three times. No student may earn more than nine hours degree credit in courses ENCE 4096 and 4097.

ENCE 4097            Special Topics in Civil Engineering            3 cr.





Prerequisites for ENCE 4387: ENCE 4386.

Definition and measurement of traffic stream variables, statistical distributions, traffic stream models, and capacity of roadway and intersections. Graduate students enrolled in 5387 must carry out additional work to earn the graduate credit.

ENCE 4390            Senior Civil Engineering Design Project            3 cr.

Prerequisites: Credit or registration in ENCE 3391, ENCE 4323, ENCE 4340, ENCE 4386, and ENCE 4359 and senior standing. Individual or team study and evolution of a project, involving engineering design, synthesis or systems in civil engineering. Using basic information provided, a design will be developed for a comprehensive civil engineering project. The design process will consist of the following phases: information collection; generation of alternate solutions; preliminary evaluation; analysis; synthesis; review and implementation. A comprehensive written report and oral presentation are required. Not open to graduate students.

ENCE 4399            Civil and Environmental Seminar            2 cr.

Prerequisite: Senior standing in civil engineering and Departmental approval. This course addresses professional, licensure, and ethical responsibilities of the civil engineer, as well as communication concepts. Contemporary issues will be included to further develop an understanding of the impact of engineering solutions from a global and/or societal context. The ability of students to apply the fundamental knowledge of mathematics, sciences, and engineering will be tested. Passing this course is a requirement for graduation. Weekly meeting will include a one-hour lecture and a three-hour laboratory. Not open to graduate students.

ENCE 4723            Ocean and Coastal Engineering            3 cr.

(ENCE 4723, ENME 4723, and NAME 4723 are cross-listed). Prerequisite for ENCE 4723, ENME 4723 and NAME 4723 : ENME 3720 or ENCE 3318 or consent of the department.

Elements of wind and wave generation and forecasting, tidal phenomena, hurricanes, storm surge, tsunamis, interaction of waves and wind with coastal and offshore structures, coastal and estuary processes. Design aspects of various topics are discussed and analyzed: e.g., offshore structures, spar buoys, underwater pipelines, oil production risers, coastal protection, mooring cables, vortex shedding, gas flares, beach formation, harbor resonance, structure resonance, etc. A design project is required. This course addresses many of the coastal engineering issues in South Louisiana.

ENCE 5096            Special Topics in Civil Engineering            3 cr.

Prerequisite for ENCE 4096 and 4097: junior standing in engineering. Courses may be taken for credit three times. No student may earn more than nine hours degree credit in courses ENCE 4096 and 4097.

ENCE 5097            Special Topics in Civil Engineering            3 cr.

Prerequisite for ENCE 4096 and 4097: junior standing in engineering. Courses may be taken for credit three times. No student may earn more than nine hours degree credit in courses ENCE 4096 and 4097.

ENCE 5310            Photogrammetry and Control Surveying            3 cr.

Prerequisite for ENCE 4310: ENCE 2310 or consent of department. Photographic measurements and refinement, vertical and tilted photographs, planning for aerial photography, conformal coordinate systems and grids, horizontal and vertical control for photogrammetric mapping, ellipsoidal datum shifts, stereoscopic plotting instruments, orthophotos, panoramic and orbital photography, terrestrial and close-range photogrammetric control extension, and analytical rectification by single ray.

ENCE 5312            Topographic Engineering Design            3 cr.

Prerequisite for ENCE 4312: ENCE 2310 or consent of department. Design of projects requiring advanced topics in surveying and mapping disciplines. Coordinate systems, horizontal and vertical control, geodetic astronomy, inertial Surveying, geodetic satellites, and photogrammetry.

ENCE 5318            Hydraulic Engineering Systems            3 cr.

Prerequisite for ENCE 4318: ENCE 3318 or ENME 3720, and registration in ENCE 4319.

Classification of flows. Application of continuity, energy and momentum principles to hydraulic systems. Similitude in hydraulic models. Application of hydrostatics to hydraulic structures including preliminary design of gravity and arch dams. Friction concepts. Flow in pipe networks. Pumping systems. Application of basic principles to open channel flow. Concepts of critical flow, uniform flow, and hydraulic jumps. Design of non-erodible and erodible channels. Steady gradually varied flow in open channels. Design of hydraulic structures. Graduate students enrolled in 5318 must carry out additional work to earn the graduate credit.

- ENCE 5319      Fluid Mechanics & Hydraulic Engineering Laboratory      1 cr.  
Prerequisite for ENCE 4319: Concurrent registration in ENCE 4318 required. The time will be equally split between laboratory experiments in the Hydraulics laboratory and design tutorials. The physical experiments are designed to demonstrate the continuity, energy and momentum principles; flow in hydraulic structures such as culverts, weirs, spillways, and stilling basins; steady and unsteady flow including gravity waves; rigid and mobile bed flows. The tutorials will cover: the use of applicable software for hydraulic systems and the design of hydraulic structures or components of hydraulic structures. [3-hour laboratory].
- ENCE 5321      Hydrology      3 cr.  
Prerequisite for ENCE 4321: ENCE 3318 or ENME 3720 and MATH 2314.  
The hydrologic cycle, run-off relations, unit hydrographs, flood routing, probability in hydrology, hydrologic simulation, and stochastic methods in hydrology. Graduate students enrolled in 5321 must carry out additional work to earn the graduate credit.
- ENCE 5322      Design of Water Supply and Sewer Systems      3 cr.  
Prerequisite for ENCE 4322: ENCE 3318 or ENME 3720.  
Design of water supply systems including surface water intakes, groundwater wells, pumping, pipelines, storage reservoirs, and water distribution systems. Design of urban drainage systems including: sanitary sewer systems, storm water collection systems, sewage pumping stations, and appurtenances and special structures. Graduate students enrolled in 5322 must carry out additional work to earn the graduate credit.
- ENCE 5323      Design of Water and Wastewater Treatment Plants      3 cr.  
Prerequisite for ENCE 4323: ENCE 3323 or (ENCE 3327 and ENCE 3326).  
Design and analysis of unit operations and processes for water and wastewater treatment processes. Topics include physical, chemical, and biological unit processes. Course will focus on water and wastewater treatment plant design including comparisons of alternate treatment processes. Graduate students enrolled in 5323 must carry out additional work to earn graduate credit.
- ENCE 5325      Waste Management      3 cr.  
Prerequisite for ENCE 4325: Senior standing in science or engineering.  
  
This course addresses the principles and practices of solid waste management including waste generation, composition, and characterization. Unit operations such as collection, handling, recycling and reuse, treatment, and disposal are also addressed. Graduate students enrolled in 5325 must carry out additional work to earn the graduate credit.
- ENCE 5328      Air Pollution Control      3 cr.  
Prerequisites for ENCE 4328: ENCE 3318 or ENME 3720, and ENME 3770 or equivalent. Air pollutants and their sources, air pollution meteorology, effect of air pollution on man, vegetation and materials, air quality standards, atmospheric sampling and analysis, dispersion of pollutants, technology of air pollution control, and combustion evaluation. Each student will work on a project in which the student has to adopt one industry and apply the knowledge gained in the course to develop an air quality management report.
- ENCE 5329      Modeling and Design in Environmental Hydraulics      3 cr.  
Prerequisites for ENCE 5329: ENCE 3318 or ENME 3720.  
Nonpoint and point source water quality modeling for the control of pollution in rivers, lakes, and estuaries. Environmental cycles, transport processes, and physical, chemical, and biological processes involved in water quality modeling.
- ENCE 5330      Groundwater Engineering      3 cr.  
Prerequisite for ENCE 4330: ENCE 3340 Geotechnical Engineering. Fundamentals of fluid mechanics and geotechnical engineering applied to flow in porous media. Elements of the hydrologic cycle. Occurrence of groundwater. Hydraulics of aquifers and groundwater development.
- ENCE 5340      Foundation Engineering      3 cr.  
Prerequisite for ENCE 4340: ENCE 3340.  
Application of soil mechanics principles to the design of footings, foundations, embankments, and retaining walls. Subsurfaces investigations, dewatering, deep excavations, piles, caissons and cofferdams. Case histories will be cited. Graduate students enrolled in 5340 must carry out additional work to earn the graduate credit.





Prerequisite: consent of department. Solid waste management practices, including generation, composition, collection, handling, and disposal. Recycling and reuse together with costs, marketing, and legal regulatory aspects are included.

ENCE 6327 Hazardous Waste Management 3 cr.

Prerequisite: consent of department. Hazardous waste management practices: including identification and classification of waste; regulations; treatment, storage, and disposal techniques; and facilities parameters.

ENCE 6328 Advanced Hazardous Waste Materials Management 3 cr.

Prerequisite: ENCE 6327. Management methods for treatment storage and disposal of hazardous materials and wastes with emphasis on current industry practices. Six field trips to commercial hazardous waste treatment and disposal facilities possibly including superfund sites.

ENCE 6330 Treatment Plant Process Microbiology 4 cr.

Prerequisites: ENCE 4323; Consent of the Department. An advanced lecture and laboratory course for the biological process design engineer which will focus upon cellular microbiology and biochemistry as it directly relates to biological treatment and stabilization processes. It will address aerobic treatment anaerobic treatment and stabilization of toxic and hazardous wastes.

ENCE 6331 Treatment Plant Process Chemistry 4 cr.

Prerequisites: Chem 1017 or equivalent. An advanced lecture and laboratory course for the treatment process of design engineer, which focuses upon aquatic chemistry as it directly relates to engineered water and wastewater treatment processes. It includes chemical equilibria, chemical thermodynamics, acid-base equilibria, solubility equilibria, oxidation-reduction equilibria, chemical water stabilization, softening and neutralization, and applications of redox chemistry. It also includes laboratory practices on acid-base titrations, alkalinity, chemical oxidation, calcium and magnesium determination.

ENCE 6332 Water Treatment Processes and Design 3 cr.

A comprehensive presentation of water treatment processes with their application to treatment plant design. Topics include: gas transfer, design of gas transfer units, coagulation of colloidal particles, design of rapid mixing units, flocculation, settling, filtration, disinfection, adsorption, oxidation.

ENCE 6333 Waste Water Treatment Processes and Design 3 cr.

A comprehensive presentation of wastewater treatment processes with their application to treatment plant design. Topics include: reactor analysis and modeling, bacterial growth, suspended growth reactors, biological film reactors, anaerobic treatment, land application, sludge stabilization, dewatering and disposal.

ENCE 6335 Pollution Prevention 3 cr.

Prerequisite: ECON 2000. Identification of pollution prevention opportunities and implementation of proven methodology as defined by the United States Environmental Protection Agency. Emphasis on economic evaluation of pollution prevention practices and investments for various manufacturing and post-consumer processes.

ENCE 6336 Air Quality Monitoring 3 cr.

Prerequisites: ENCE 4328 or consent of the department. Principles of measurement for ambient air quality, source testing and fugitive emissions. Both grab sampling & continuous sampling techniques and analysis methods will be studied. Standard instruments used in air quality monitoring including continuous & ambient emissions monitoring instruments/systems and regulatory aspects will be covered in the course.

ENCE 6337 Air Pollution Meteorology and Atmospheric Dispersion Modeling 3 cr.

Prerequisites: ENCE 4328 or consent of the department. Fundamentals of air pollution meteorology and atmospheric dispersion of pollutants. Mathematical models including Gaussian model, use of PC-based dispersion models to predict ambient concentrations of pollutants due to point, line, area and volume source emissions. Regulatory aspects of modeling and guidelines.

ENCE 6340 Mechanical Behavior of Soils 3 cr.

Prerequisite: ENCE 3340 or equivalent. Re-examination of basic principles of soil mechanics; detailed study of physicochemical nature of soils; stress states and stress-strain-time behavior; advanced theories and detailed study of shear strength of cohesionless and cohesive soils; in-depth evaluation of the strength compressibility and

permeability of natural soils.

ENCE 6341 Earth Structures 3 cr.

Prerequisite: ENCE 3340 or equivalent. Design of projects involving earth dams, embankments, and natural slopes; site investigation, soil properties and compaction, analysis of seepage and slope stability; seepage control and landslide prevention; performance observations and practical consideration in design and construction; and case studies of types of failures.

ENCE 6342 Dewatering and Groundwater Control 3 cr.

Prerequisites: ENCE 3340 or equivalent. The study of the seepage through earthen dams, construction excavations and hydraulic structures. Properties of phreatic surfaces. Seepage pressures, piping and boiling. Construction and utilization of flow nets. Groundwater mechanics applications including flow characteristics and changes in flow due to pump and drain systems.

ENCE 6343 Advanced Soil Mechanics Laboratory 1 cr.

Prerequisite: ENCE 3340 or equivalent. Laboratory measurement of soil properties from introductory to advanced techniques. Emphasis on strength, compressibility, and permeability tests.

ENCE 6344 Geotechnical Engineering for Waste Management 3 cr.

Prerequisites: ENCE 3320, 3340 or equivalent. An overview of the theoretical and practical aspects of the site selection, design, construction, and performance of waste disposal facilities, state and federal regulations governing solid and hazardous waste.

ENCE 6345 Numerical Methods in Geotechnical Engineering I 3 cr.

Prerequisite: ENCE 4340, ENME 3020 or consent of department. Re-examination of basic concepts from solid mechanics; constitutive models, strain-displacement relations; and use of finite difference methods, finite element methods and other numerical methods, with application to beams, slabs, and pavements.

ENCE 6346 Numerical Methods in Geotechnical Engineering II 3 cr.

Prerequisite: ENCE 6345. Consolidation, flow through porous media, advanced methods applied to design and analysis of soil-structure systems; shallow and pile foundations, earth retaining structures, and limit design.

ENCE 6347 Ground Improvement 3 cr.

Overview of recent methods of placement and improvement of soils for engineering construction practice. Compaction methods including vibro techniques, dynamic compaction and compaction grouting. Use of preloading and acceleration of consolidation settlement. Application of electro-kinetics in construction practice. Various methods and applicability of in-situ earth reinforcement. Excavation support methods and groundwater lowering and drainage techniques.

ENCE 6349 Deep Foundations 3 cr.

Prerequisite: ENCE 3340 and ENCE 4340.

Review of pile materials, equipment and installation. Evaluation of the soil parameters for pile foundation by laboratory and field tests. Analysis and design of piles for vertical and lateral loads. Application of design procedures for drilled shafts. Use and interpretation of pile load tests. Principles of pile foundations under dynamic loads.

ENCE 6350 Matrix Methods in Structural Engineering 3 cr.

Prerequisites: ENCE 3356 or equivalent, CSCI 1201 or knowledge of computer programming. Review of basic matrix operations; classical methods of structural analysis in matrix formulation; work and energy principles; analysis of structures by the flexibility and stiffness methods; development and application of computer programs for matrix methods of analysis; introduction to finite element method.

ENCE 6351 Advanced Design of Structural Systems 3 cr.

Prerequisite: consent of department. Advanced design course offered on a demand basis with registration only by demonstration of adequate preparation. Design of pressure vessels, tanks, folded plates, and shell roofs; design of advanced bridge systems including orthotropic decks, box-girder bridges, and post-tensioned sectional bridges; selected advanced design topics.

ENCE 6352 Reliability Analysis in Civil Engineering 3 cr.

Prerequisites: ENCE 3356, 3320, and 3340, and MATH 2314. Analysis of failure probability for civil engineering

systems. Construction of load and capacity probability distributions from data. Introduction to decision theory. Applications to structures, soils, planning, hydraulics, and other civil subareas.

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------|
| ENCE 6353                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Advanced Mechanics of Materials         | 3 cr. |
| Prerequisite: ENCE 2351. Advanced topics in mechanics of materials, including torsion of non-circular prismatic bars, shear center, unsymmetrical bending, curved beams, flat plates, elastic strain energy, and theories of failure and application to machine and structural design. One-third of course is devoted to analysis and two-thirds to synthesis and design.                                                                                                                                                                                                                                                                                                                  |                                         |       |
| ENCE 6355                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Theory of Plates and Shells             | 3 cr. |
| (ENCE 6355 and ENME 6355 are cross-listed) Prerequisites: ENCE 6353 and MATH 2221. Laterally loaded plates with various boundary conditions; elastic stability of plates; differential geometry of surfaces; equilibrium and strain equations; membrane theory of shells; shells of revolution with emphasis on cylindrical and spherical shells.                                                                                                                                                                                                                                                                                                                                          |                                         |       |
| ENCE 6357                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Geosynthetics                           | 3 cr. |
| Prerequisites: ENCE 3340. Overview of geosynthetics. Functions and mechanisms of geotextiles. Design procedures using geotextiles for drainage, reinforcement and other functions. Design procedures for geogrid reinforcement. Design methods for drainage systems using geonets. Use and application of geomembranes in landfill liners. Design and construction methods using geosynthetic clay liners. Uses and design applications of geopipes and geocomposites.                                                                                                                                                                                                                     |                                         |       |
| ENCE 6358                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Advanced Steel Design                   | 3 cr. |
| Prerequisites: ENME 3356 and 4358. Design of plate girders, composite beams, and connections; plastic hinges and introduction to plastic analysis of steel structures; and computer-aided design of steel space frame and introduction to steel bridge design.                                                                                                                                                                                                                                                                                                                                                                                                                             |                                         |       |
| ENCE 6359                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Advanced Concrete Design                | 3 cr. |
| Prerequisite: ENCE 3356 and 4359. Structural systems for buildings; lateral load analysis and design of shear walls; design of two-way slabs; design of biaxially loaded columns; torsion in concrete beams; introduction of prestressed concrete design; and general aspects of design.                                                                                                                                                                                                                                                                                                                                                                                                   |                                         |       |
| ENCE 6360                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Plastic Design of Steel Structures      | 3 cr. |
| Prerequisite: ENCE 4358. Collapse mechanism and plastic analysis; stability and deformation considerations; plastic design and methods of optimization; shakedown analysis; introduction to load and resistance factor design.                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                         |       |
| ENCE 6361                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Prestressed Concrete Design             | 3 cr. |
| Prerequisite: ENCE 4359. Principles and methods of prestressing; design for flexure, shear, temperature, and fatigue; roof and floor framing systems, bridge construction, columns, and piles; connections and erection methods for precast members; pretensioning and posttensioning systems and procedures; and special design topics.                                                                                                                                                                                                                                                                                                                                                   |                                         |       |
| ENCE 6371                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Structural Stability                    | 3 cr. |
| Prerequisites: ENCE 4358 and MATH 2221. Review of elastic column buckling; basic consideration of bifurcation; stability of frames; analysis of lateral torsional stability of beams and columns; and inelastic buckling of columns.                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                         |       |
| ENCE 6383                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Soil Shear Strength and Slope Stability | 3 cr. |
| Prerequisite: ENCE 3340 or consent of the department. Review of basic principles of soil mechanics. Advanced theories on shear strength of cohesionless and cohesive soils. Review of short term (undrained) and long term (drained) soil shear strength parameters. Review of natural and excavated slopes. Soil Mechanics principles governing slope stability. Analysis of slopes using stability charts. Minimum factor of safety determination. Computer based slope stability analysis. Performance observations and practical consideration in design and construction of slopes. Discussion of case histories with slope stability issues. Stabilization of slopes and landslides. |                                         |       |
| ENCE 6384                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Traffic System Analysis                 | 3 cr. |
| Prerequisite: ENCE 4387. Basic concepts in traffic flow theory; generalized demand, price, and capacity relationships applied to traffic flow prediction; flow in transportation networks; and the evaluation of alternative highways and traffic engineering designs.                                                                                                                                                                                                                                                                                                                                                                                                                     |                                         |       |

ENCE 6385      Design of Highways      3 cr.

Prerequisite: ENCE 3386. Location of routes, vertical and horizontal alignment, mass curve computations, design of drainage structures, intersection design, pavement design, and computer applications. Each student will complete a design project.

ENCE 6386      Mass Transportation      3 cr.

Prerequisite: ENCE 6384. A study of the different public transportation systems and technologies, comparison of different modes, mass transit operations, models for basic operational parameters, optimal model choice.

ENCE 6390      Project Management      3 cr.

(ENCE 6390, ENMG 6120, and MANG 6472 are cross-listed) Prerequisite: consent of department. Encompasses project organization structure, project planning and control. Discussions will include performance analysis based on earned value. Emphasis will be given to project management information systems. Human behavior in the project setting will be discussed.



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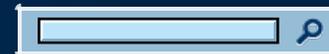
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## Computer Science

General prerequisite: students may not enroll in any Computer Science course unless they have received credit for, or are eligible to enroll in, English 1157.

CSCI 1000 Introduction to Computers 3 cr.

Prerequisite: eligibility for enrollment in MATH 1115. Majors in the College of Sciences may not use this course for science elective credit. Other majors should consult with their colleges concerning use of this course toward degree credit. This course is an introduction to what computers are and how they can be used. A major emphasis is on providing hands-on laboratory experience using software packages such as word processing, spreadsheets, and database management systems. Lecture topics include history of computers, organization of a computer system, computer terminology, input-output devices and media, software development and programming, future trends, and effects on human society.

CSCI 1201 Introduction to Programming in Fortran 3 cr.

Prerequisite: MATH 1115 or higher with a grade of C or better. Introduces and applies computer techniques needed to solve problems in a high-level programming language such as Fortran. Develops programming skills necessary for students to utilize the digital computer in carrying out computational assignments for other courses. Except as provided for in individual college policies, a student may receive credit in only one of CSCI 1060, 1201, 1203, 1205, and 1583. Not intended for Computer Sciences majors.

CSCI 1203 Introduction to Programming in C 3 cr.

Prerequisite: MATH 1115 or higher with a grade of C or better. Introduces and applies computer techniques needed to solve problems in a procedure-oriented language such as C. Develops programming skills necessary for students to utilize the digital computer in carrying out computational assignments for other courses. Except as provided for in individual college policies, a student may receive credit in only one of CSCI 1060, 1201, 1203, 1205, and 1583. Not intended for Computer Science majors.

CSCI 1205 Introduction to Programming in C++ 3 cr.

Prerequisite: MATH 1115 or higher with a grade of C or better. Introduces and applies computer techniques needed to solve problems in a high-level programming language such as C++. Develops programming skills necessary for students to utilize the digital computer in carrying out computational assignments for other courses. Except as provided for in individual college policies, a student may receive credit in only one of CSCI 1060, 1201, 1203, 1205, and 1583. Not intended for Computer Science majors.

CSCI 1581 Software Design and Development I Laboratory 1 cr.

Prerequisite: Concurrent registration in CSCI 1583 is required. Two hours of laboratory each week to accompany CSCI 1583. Applications, exercises, and explorations in methodologies, software design, and development.

CSCI 1583 Software Design and Development

I 3 cr.  
Prerequisite: MATH 1115 or higher with a grade of C or better; Eligibility for Math 1125 or higher, concurrent registration in CSCI 1581 is required. An introduction to software design and development using an object-oriented approach. Topics include designing specifying implementing and testing elementary classes; developing simple algorithms in an object-oriented programming language; programming-by-contract; implementing fundamental structural relations between classes. Intended primarily for Computer Science majors. Except as provided for in individual college policies a student may receive credit in only one of CSCI 1060, 1201, 1203, 1205, and 1583.

CSCI 2025 Data Structures and Applications

3 cr.

Prerequisite: CSCI 1205. A continuation of CSCI 1205. Data structures using an object-oriented language for solving scientific and engineering problems. Topics also include linear data structures, trees, graphs, and algorithm analysis. Not allowed for credit for Computer Science majors.

CSCI 2120 Software Design and Development II

3 cr.

Prerequisites: CSCI 1583 and 1581; concurrent registration in CSCI 2121 is required. (The successor course CSCI 2125 has MATH 3721 as a co-requisite; credit or concurrent registration in MATH 1116 or MATH 1126, which are prerequisites for MATH 3721, is therefore recommended). A continuation of CSCI 1583 and 1581 with emphasis on algorithmic techniques and the structuring of larger systems. Topics include sorting and searching, recursion, inheritance and polymorphism, composition, abstract classes and interfaces, exception handling, and the model-view-controller structure. Three hours of lecture.

CSCI 2121 Software Design and Development II Laboratory

1

cr.

Prerequisite: Concurrent registration in CSCI 2120 is required. Two hours of laboratory each week to accompany CSCI 2120. Applications, exercises, and explorations in methodologies for software design and development.

CSCI 2125 Data Structures

3 cr.

Prerequisites: CSCI 2120 and 2121. Credit or concurrent registration in MATH 3721 is required. A continuation of CSCI 2120 and 2121 with emphasis on the design and implementation of structured data objects such as lists, stacks, queues, trees, and graphs; storage allocation for structured data objects.

CSCI 2450 Machine Structure and Assembly Language Programming

3 cr.

Offered each semester. Prerequisites: CSCI 1060, 1201, 1203, 1205, or 1583. Assembly language programming and a survey of computer organization; structure of assemblers and loaders; introduction to operating systems.

CSCI 2467 Systems Programming Concepts

3 cr.

Prerequisites: CSCI 2120 and CSCI 2450. Introduction to the concepts and tools used in systems programming. Detailed examination of computer architecture and computer system services from a user's point of view. Topics include accessing system services such as process control, file management, and input-output, through system calls and shells.

CSCI 3080 Ethics in the Computing Profession

1 cr.

Prerequisites: CSCI 2125 and any CSCI 4000-level course. Professional societies; codes of ethics; accreditation and certification; liability; software piracy; information and property; copyright; computer crime; data bank privacy; the Data Protection Act; monopoly and anti-trust questions; robotics and employment issues; VDT's and public health issues; and Trans-National Data Flow.

CSCI 3090 Undergraduate Seminar

1 cr.

Offered each semester. Prerequisite: CSCI 2125 and any 4000-level CSCI course. A seminar with topics presented by students, faculty, and guests. Students registering for the course must normally make a presentation to satisfy credit requirements. May be taken multiple times for credit.

CSCI 3097 Problems in Computer Science

1 min. cr.

- 3 max. cr.

Offered each semester and summer session. Prerequisites: CSCI 2467, an average of B in all CSCI courses attempted, and the consent of the department. May be repeated up to a maximum of six credits but only three



Concentration. The design process of digital computer systems is studied from the instruction set level, system architecture level, and digital logic level. Topics include machine organization, register transfer notation, processor design, memory design, and input/output considerations. Includes semester project.

CSCI 4311 Computer Networks and Telecommunications 3 cr.

Prerequisites: CSCI 2125 and CSCI 2450. Overview of modern computer communication networks covering the theoretic multi-layered model from the top down with an emphasis on working protocols and algorithms. Topics include client-server model, common application protocols, connectionless and reliable transport, flow and congestion control, routing, switching, shared medium protocols, transmission media and network hardware.

CSCI 4350 Distributed Software Engineering 3 cr.

Prerequisite: CSCI 2125. A study of the concepts, the methodology, the models, and methods that address problems in the development of distributed-software applications with emphasis on distributed-object models and components.

CSCI 4401 Principles of Operating Systems I 3 cr.

Prerequisites: CSCI 2125 and CSCI 2467. An introduction to the organization of various types of operating systems; machine structure and the functions of an operating system; multiprogramming and time-sharing environments; memory management and resource allocation; virtual memory concepts; the file system and IO device handling; protection and error recovery.

CSCI 4402 Principles of Operating Systems II 3 cr.

Prerequisite: CSCI 4401. A continuation of CSCI 4401 with emphasis on time-sharing, multiprocessing, and virtual system environments; performance measurement and evaluation; system simulation; developments in Operating System theory.

CSCI 4460 Introduction to Network and System Administration 3 cr.

Prerequisite: CSCI 4401. An introduction to network and system administration. Topics include processes and files; scripting; system installation; boot and shutdown; process management; daemons and services; devices and drivers; network fundamentals; network file systems; network services. Topics may also include kernel configuration; performance analysis; accounting and system logging; security. The course requires lab projects on dedicated departmental equipment.

CSCI 4501 Programming Language Structure 3 cr.

Prerequisite: CSCI 2125. A study of the concepts of programming languages as realized in a variety of commonly used languages, with emphasis on language definition and structure.

CSCI 4510 An Introduction to Translator Construction 3 cr.

Prerequisites: CSCI 3102 and CSCI 4501. The design and implementation of translators for programming languages. The course will cover the topics of lexical and syntactic analysis, translation, code generation, and code optimization, as well as the design and actual implementation of a compiler for a simple block-structured language such as a subset of Pascal or Ada.

CSCI 4525 Introduction to Artificial Intelligence 3 cr.

Prerequisite: CSCI 2125. Introduction to the problem domain of artificial intelligence and the methods used to solve those problems. Topics include knowledge representation, search strategies, and surveys of principal subareas of artificial intelligence such as expert systems, natural language processing, reasoning systems, games, learning, and vision. Programming assignments in a current artificial intelligence language will be required.

CSCI 4567 Bioinformatics I 3 cr.

Prerequisite: CSCI 2125 and MATH 2314. A "hands-on" programming and project oriented introduction to the algorithms and theory used in bioinformatics and cheminformatics, with applications in computational genomics. Statistical methods for identifying motifs in biological DNA, RNA and protein sequences. Includes hidden Markov models for identifying structure in stochastic sequential data (for gene finding and for feature extraction from protein-channel ionic current measurements) and discriminative methods for use in informatics, particularly kernel based classification methods such as Random Forest.

CSCI 4568 Bioinformatics II 3 cr.

Prerequisite: CSCI 2125 and MATH 2314 or consent of department. A "hands-on" programming and project oriented introduction to the algorithms and theory used in bioinformatics and cheminformatics, with applications in

biomolecular engineering. Includes hidden Markov models for identifying structure in stochastic sequential data (for gene finding and for feature extraction from protein-channel ionic current measurements) and discriminative methods for use in informatics, particularly kernel based classification methods: such as Support Vector Machine and tree-based classification methods such as Random Forest. Students will be required to develop a large project in a team setting.

CSCI 4587            Machine Learning Methods in Bioinformatics I            3 cr.

Prerequisites: CSCI 4567 or CSCI 4568. Machine Learning Methods for Signal Acquisition, Structure Identification, and Feature Extraction. Hidden Markov Models for structure identification and feature extraction, with applications in computational genomics and channel current power signal analysis.

CSCI 4588            Machine Learning Methods in Bioinformatics II            3 cr.

Prerequisite: CSCI 4567 or CSCI 4568. Machine learning methods for classification and clustering. Support vector machines for general, non-parametric, classification and clustering, with applications in Bioinformatics and Cheminformatics.

CSCI 4595            Topics in Bioinformatics            3 cr.

Prerequisite: CSCI 4567 or CSCI 4568. Upper-level course that builds on the programming-intensive applications of machine learning research in bioinformatics. Interdisciplinary (biophysics/biochemistry) applications of these results. This course may be taken twice for a total of 6 credit hours.

CSCI 4620            Advanced Database Techniques            3 cr.

Prerequisite: CSCI 4125. The scope of the basic materials presented in CSCI 4125, Data Models and Database Systems, is expanded to include advanced theoretical aspects, design methodologies, implementation, and specialized applications. The materials presented include higher-order dependencies, object-relational and object-oriented data models, implementation techniques of Database systems and Java Database Connectivity (JDBC). On the applications side, the specific requirements imposed by Deductive DBS, Geographic Information Systems, Genome Data Management, Data Warehousing and Data Mining are discussed.

CSCI 4621            Computer Security            3 cr.

Prerequisites: CSCI 4401 or CSCI 4125. Overview of information assurance; physical security models; authentication and access control mechanisms; application and operating system level security; malicious software; overview of digital forensics; encryption, including private- and public-key encryption methods. A balance between theory and historical/current practice. Students will be required to develop a large project in a team setting.

CSCI 4622            Software Reverse Engineering            3 cr.

Prerequisites: CSCI 4401 and CSCI 4621. Deep analysis of the code, structure, and functionality of software using both static and dynamic methods. The course provides a solid foundation crucial to understanding modern malicious software and crafting potential solutions to recover from and prevent attacks. Reverse engineering is also useful for creating interoperable software, for verifying that software patches function as promised, and for the simple joy of understanding at a deep level how software works.

CSCI 4623            Introduction to Computer Forensics            3 cr.

Prerequisite: CSCI 4621. An introduction to the theory and application of computer forensics, an important area of computer security concerned with the preservation and recovery of digital evidence. Topics include: types of digital evidence, obfuscation methods used to hide digital evidence, such as steganography and encryption, tools for data preservation and recovery, techniques for ensuring data security, and legal issues in the preservation, recovery, and presentation of digital evidence. The course will include a substantial lab component.

CSCI 4631            Principles of Computer Graphics            3 cr.

Prerequisite: CSCI 2125 and MATH 2511. Types of graphics hardware point plotting vector and raster technologies; techniques for defining images point vector and raster-based approaches; graphical data and program structures; image manipulation two- and three-dimensional transformations; techniques for producing perspective; hidden line removal; shading; clipping; and windowing. Applications in several fields.

CSCI 4632            Principles of Image Processing            3 cr.

Prerequisite: CSCI 2125 and MATH 2511. Introduction to the analysis, implementation and application of digital imaging enhancement and restoration algorithms including fundamental gray-level processing procedures, spatial and frequency-domain filtering, color image processing, methods and transforms for multi-resolution image

processing and compression, and elementary image analysis techniques such as segmentation, morphology, and object representation and recognition.

CSCI 4650                      Problem Solving and Competition Programming                      3 cr.

Prerequisites: Credit or concurrent registration in CSCI 2125. A problem-based approach to the introduction and implementation of advanced algorithms. Students will be provided with algorithmic tools and strategies to compete in organized programming competitions. Emphasis will be placed on group-based approaches to problem solving that require advanced algorithms under time pressure.

CSCI 4661                      Topics in Mobile Applications Development                      3 cr.

Prerequisites: CSCI 2125 and CSCI 2467. Development of program applications for a current widely available mobile platform. Key concepts of applications programming for a mobile platform including the UI system, activity lifecycle, sensors, networking, threading, and application compatibility. May be taken 2 times for a maximum of 6 credit hours.

CSCI 4670                      Fundamentals of Game Development                      3 cr.

Prerequisite for CSCI 4670: CSCI 2125.

Introduction to techniques used in development of computer games. Concept and level design, narrative, game mechanics, gaming physics, simple AI, 2D and 3D graphics and animation, sound, and algorithms will be introduced using a team-based project approach.

CSCI 4675                      Advanced Game Development                      3 cr.

Prerequisites: A grade of C or better in CSCI 4990. Advanced techniques in development of computer games. Advanced concept design, game mechanics, gaming physics, AI, graphics and animation, and algorithms will be introduced using a team-based project approach.

CSCI 4990                      Special Topics in Computer Science                      3 cr.

Prerequisite: Consent of department. This is an advanced course whose topic changes from semester to semester. The prerequisites change as dictated by the topic. This course may be taken twice for a total of 6 credit hours.

CSCI 5101                      Analysis of Algorithms                      3 cr.

Prerequisite: CSCI 2125. Precise definition of the concept of an algorithm; techniques for algorithm verification; analyzing algorithm performance; applications to practical algorithms.

CSCI 5125                      Data Models and Database Systems                      3 cr.

Prerequisite: CSCI 2125. Methods, structures, and algorithms used for the organization, representation, and manipulation of large data bases; design and implementation of data base management systems. Students will be required to develop a large project in a team setting.

CSCI 5130                      Introduction to Cryptography                      3 cr.

(MATH 4530 & CSCI 4130 are cross-listed) Prerequisites: MATH 3721. Elementary ciphers, Data Encryption Standard, Advanced Encryption Standard (Rijndael), Rivest-Adleman-Shamir (RSA) Encryption, and other topics in modern cryptography (subject to change as progress in field changes). This course is aimed at both CSCI and MATH majors, with both programming assignments and proofs as problem options.

CSCI 5208                      Developing Advanced Web Applications                      3 cr.

Prerequisite: CSCI 2125 or CSCI 2467. Design and implementation of advanced web-based applications. Topics covered typically include: HTTP protocol, multi-tier architectures, technologies for server-side and client-side implementation, database connectivity, XML, session handling, web services, scalability and security in the web context. Substantial programming project involving the development of a database-backed web application.

CSCI 5210                      Introduction to Software Engineering                      3 cr.

Prerequisite: CSCI 2125. Study of the software life-cycle that different applications go through, from conception to release and maintenance. Topics include: discovery of appropriate software life cycle for a given project: analysis, design and testing methods; risk management; tool support; process and product management; discussion of CMM and ISO-9003. Students will be required to develop a large project in a team setting.

CSCI 5311                      Computer Networks and Telecommunications                      3 cr.

Prerequisites: CSCI 2125 and CSCI 2450. Overview of modern computer communication networks covering the

theoretic multi-layered model from the top down with an emphasis on working protocols and algorithms. Topics include client-server model, common application protocols, connectionless and reliable transport, flow and congestion control, routing, switching, shared medium protocols, transmission media and network hardware.

CSCI 5350                      Distributed Software Engineering                      3 cr.

Prerequisite: CSCI 2125. A study of the concepts, the methodology, the models, and methods that address problems in the development of distributed-software applications with emphasis on distributed-object models and components.

CSCI 5401                      Principles of Operating Systems I                      3 cr.

Prerequisites: CSCI 2125 and CSCI 2467. An introduction to the organization of various types of operating systems; machine structure and the functions of an operating system; multiprogramming and time-sharing environments; memory management and resource allocation; virtual memory concepts; the file system and IO device handling; protection and error recovery.

CSCI 5402                      Principles of Operating Systems II                      3 cr.

Prerequisite: CSCI 4401. A continuation of CSCI 4401 with emphasis on time-sharing, multiprocessing, and virtual system environments; performance measurement and evaluation; system simulation; developments in Operating System theory.

CSCI 5460                      Introduction to Network and System Administration                      3 cr.

Prerequisite: CSCI 4401. An introduction to network and system administration. Topics include processes and files; scripting; system installation; boot and shutdown; process management; daemons and services; devices and drivers; network fundamentals; network file systems; network services. Topics may also include kernel configuration; performance analysis; accounting and system logging; security. The course requires lab projects on dedicated departmental equipment.

CSCI 5501                      Programming Language Structure                      3 cr.

Prerequisite: CSCI 2125. A study of the concepts of programming languages as realized in a variety of commonly used languages, with emphasis on language definition and structure.

CSCI 5510                      An Introduction to Translator Construction                      3 cr.

Prerequisites: CSCI 3102 and CSCI 4501. The design and implementation of translators for programming languages. The course will cover the topics of lexical and syntactic analysis, translation, code generation, and code optimization, as well as the design and actual implementation of a compiler for a simple block-structured language such as a subset of Pascal or Ada.

CSCI 5525                      Introduction to Artificial Intelligence                      3 cr.

Prerequisite: CSCI 2125. Introduction to the problem domain of artificial intelligence and the methods used to solve those problems. Topics include knowledge representation, search strategies, and surveys of principal subareas of artificial intelligence such as expert systems, natural language processing, reasoning systems, games, learning, and vision. Programming assignments in a current artificial intelligence language will be required.

CSCI 5567                      Bioinformatics I                      3 cr.

Prerequisite: CSCI 2125 and MATH 2314. A "hands-on" programming and project oriented introduction to the algorithms and theory used in bioinformatics and cheminformatics, with applications in computational genomics. Statistical methods for identifying motifs in biological DNA, RNA and protein sequences. Includes hidden Markov models for identifying structure in stochastic sequential data (for gene finding and for feature extraction from protein-channel ionic current measurements) and discriminative methods for use in informatics, particularly kernel based classification methods such as Random Forest.

CSCI 5568                      Bioinformatics II                      3 cr.

Prerequisite: CSCI 2125 and MATH 2314 or consent of department. A "hands-on" programming and project oriented introduction to the algorithms and theory used in bioinformatics and cheminformatics, with applications in biomolecular engineering. Includes hidden Markov models for identifying structure in stochastic sequential data (for gene finding and for feature extraction from protein-channel ionic current measurements) and discriminative methods for use in informatics, particularly kernel based classification methods: such as Support Vector Machine and tree-based classification methods such as Random Forest. Students will be required to develop a large project in a team setting.

CSCI 5587	Machine Learning Methods in Bioinformatics I	3 cr.
Prerequisites: CSCI 4567 or CSCI 4568. Machine Learning Methods for Signal Acquisition, Structure Identification, and Feature Extraction. Hidden Markov Models for structure identification and feature extraction, with applications in computational genomics and channel current power signal analysis.		
CSCI 5588	Machine Learning Methods in Bioinformatics II	3 cr.
Prerequisite: CSCI 4567 or CSCI 4568. Machine learning methods for classification and clustering. Support vector machines for general, non-parametric, classification and clustering, with applications in Bioinformatics and Cheminformatics.		
CSCI 5595	Topics in Bioinformatics	3 cr.
Prerequisite: CSCI 4567 or CSCI 4568. Upper-level course that builds on the programming-intensive applications of machine learning research in bioinformatics. Interdisciplinary (biophysics/biochemistry) applications of these results. This course may be taken twice for a total of 6 credit hours.		
CSCI 5620	Advanced Database Techniques	3 cr.
Prerequisite: CSCI 4125. The scope of the basic materials presented in CSCI 4125, Data Models and Database Systems, is expanded to include advanced theoretical aspects, design methodologies, implementation, and specialized applications. The materials presented include higher-order dependencies, object-relational and object-oriented data models, implementation techniques of Database systems and Java Database Connectivity (JDBC). On the applications side, the specific requirements imposed by Deductive DBS, Geographic Information Systems, Genome Data Management, Data Warehousing and Data Mining are discussed.		
CSCI 5621	Computer Security	3 cr.
Prerequisites: CSCI 4401 or CSCI 4125. Overview of information assurance; physical security models; authentication and access control mechanisms; application and operating system level security; malicious software; overview of digital forensics; encryption, including private- and public-key encryption methods. A balance between theory and historical/current practice. Students will be required to develop a large project in a team setting.		
CSCI 5622	Software Reverse Engineering	3 cr.
Prerequisites: CSCI 4401 and CSCI 4621. Deep analysis of the code, structure, and functionality of software using both static and dynamic methods. The course provides a solid foundation crucial to understanding modern malicious software and crafting potential solutions to recover from and prevent attacks. Reverse engineering is also useful for creating interoperable software , for verifying that software patches function as promised, and for the simple joy of understanding at a deep level how software works.		
CSCI 5623	Introduction to Computer Forensics	3 cr.
Prerequisite: CSCI 4621. An introduction to the theory and application of computer forensics, an important area of computer security concerned with the preservation and recovery of digital evidence. Topics include: types of digital evidence, obfuscation methods used to hide digital evidence, such as steganography and encryption, tools for data preservation and recovery, techniques for ensuring data security, and legal issues in the preservation, recovery, and presentation of digital evidence. The course will include a substantial lab component.		
CSCI 5631	Principles of Computer Graphics	3 cr.
Prerequisite: CSCI 2125 and MATH 2511. Types of graphics hardware point plotting vector and raster technologies; techniques for defining images point vector and raster-based approaches; graphical data and program structures; image manipulation two- and three-dimensional transformations; techniques for producing perspective; hidden line removal; shading; clipping; and windowing. Applications in several fields.		
CSCI 5632	Principles of Image Processing	3 cr.
Prerequisite: CSCI 2125 and MATH 2511. Introduction to the analysis, implementation and application of digital imaging enhancement and restoration algorithms including fundamental gray-level processing procedures, spatial and frequency-domain filtering, color image processing, methods and transforms for multi-resolution image processing and compression, and elementary image analysis techniques such as segmentation, morphology, and object representation and recognition.		
CSCI 5661	Topics in Mobile Applications Development	3 cr.
Prerequisites: CSCI 2125 and CSCI 2467. Development of program applications for a current widely available mobile platform. Key concepts of applications programming for a mobile platform including the UI system, activity		

lifecycle, sensors, networking, threading, and application compatibility. May be taken 2 times for a maximum of 6 credit hours.

CSCI 5670                      Fundamentals of Game Development                      3 cr.

Prerequisite for CSCI 4670: CSCI 2125.

Introduction to techniques used in development of computer games. Concept and level design, narrative, game mechanics, gaming physics, simple AI, 2D and 3D graphics and animation, sound, and algorithms will be introduced using a team-based project approach.

CSCI 5675                      Advanced Game Development                      3 cr.

Prerequisites: A grade of C or better in CSCI 4990. Advanced techniques in development of computer games.

Advanced concept design, game mechanics, gaming physics, AI, graphics and animation, and algorithms will be introduced using a team-based project approach.

CSCI 5990                      Special Topics in Computer Science                      3 cr.

Prerequisite: Consent of department. This is an advanced course whose topic changes from semester to semester. The prerequisites change as dictated by the topic. This course may be taken twice for a total of 6 credit hours.

CSCI 6090                      Advanced Problems in Computer Science                      1 min. cr. -

3 max. cr.

Prerequisite: consent of department. A projects course of independent work under the direction of a faculty supervisor whose sponsorship must be obtained in advance. May be taken multiple times for a maximum of 3 credit hours. Cannot be used for degree credit by students who elect to fulfill the thesis degree requirements.

CSCI 6101                      Theory of Algorithms and their Complexity                      3 cr.

Prerequisites: CSCI 4101. Advanced study of algorithms and their complexity; the notions of time and space complexity; design methods, including divide and conquer, and the greedy method; polynomial and nondeterministic polynomial algorithms; the class of NP-complete algorithms.

CSCI 6110                      Applied Combinatorics and Graph Theory                      3 cr.

Prerequisites: CSCI 4101. A study of combinatorial and graph theoretic techniques for complexity analysis.

Includes generating functions, recurrence relations, Polya's theory of counting, planar directed and undirected graphs, and NP-complete problems of combinatorial or graph-theoretic nature. Application of techniques to analysis of algorithms in graph theory, as well as more general problems, such as sorting and searching.

CSCI 6120                      Theory of Computation                      3 cr.

Prerequisites: CSCI 3102. A survey of formal models for computation. Includes Turing machines, partial recursive functions, recursive and recursively enumerable sets, the recursion theorem, Church's thesis, Godel numbering, computational complexity, uncomputability, intractability, and unsolvability.

CSCI 6130                      Data Encryption and Cryptology                      3 cr.

Prerequisites: CSCI 4101 and MATH 2511. A study of the methods used in data encryption and related cryptologic problems. The history of early cryptography, including the Caesar shift, Vigenere table, Playfair square, and Enigma machines. Modern cryptographic problems, including the Data Encryption Standard, the key management problem, the public-key encryption, knapsack methods, number-theoretic methods, and the Rivest-Shamir-Adelman public-key cryptosystem, digital signature, the Digital Signature Standard, and cryptanalysis of knapsacks. Other cryptologic problems, including threshold schemes, zero-knowledge protocols, mental poker, and implementations on uniprocessor machines, networks, and parallel machines.

CSCI 6140                      Formal Languages                      3 cr.

Prerequisite: CSCI 3102. Theory and application of formal language systems and automata. Emphasis will be placed on formal systems, the languages they generate, and techniques used to parse strings in those languages.

CSCI 6230                      Distributed Database Systems                      3 cr.

Prerequisites: CSCI 4125 and 4311. A consideration of the problems and opportunities inherent in distributed databases on a network computer system. Includes distributed database design, optimization of access strategies, distributed concurrency control, recovery in distributed databases, distributed database administration, commercial systems.

- CSCI 6350            Development of Distributed Software            3 cr.  
Prerequisite: CSCI 4401. This course provides a systematic study of concepts, methodologies, models and methods that specifically address problems in the development of distributed software. The topics include architectural design for distributed applications, distributed object models, interface definition languages, concurrent task structuring, modeling for dynamic behavior, and static analysis and debugging for distributed programs.
- CSCI 6361            Topics in Mobile Computing            3 cr.  
Prerequisite: CSCI 4401. This course provides an introduction to major topics in mobile computing, including software engineering issues for resource-constrained devices (e.g. cellular phones, palmtops), mobile databases, fault tolerance, service discovery, and wireless networking. The course has substantial theoretical and applied components. Students will be required to develop a non-trivial mobile application and prepare a class presentation on a topic in mobile computing.
- CSCI 6401            Concurrent Programming            3 cr.  
Prerequisite: CSCI 4401. A systematic study of concepts, theories, methods and algorithms that specifically address problems in distributed programming. Topics include concurrency, interference, monitors and distributed programming issues, such as: synchronous and asynchronous message passing, remote procedure call, and rendezvous.
- CSCI 6410            Performance Analysis of Computer Systems            3 cr.  
Prerequisite: CSCI 4401. This course will examine models for the analysis of performance of computer systems. Topics include stochastic processes, discrete and continuous Markov chains, queuing models, and stochastic Petri models. These models will be applied to uni- and multiprocessor systems, including crossbar multiprocessor architectures, single- and multi-bus multiprocessors with external and distributed common memory.
- CSCI 6411            Topics in Fault Tolerance and Reliability            3 cr.  
Prerequisite CSCI 4401. This course provides an introduction to major topics in fault tolerance and reliability, concentrating on distributed systems. These topics include failure modes, failure detection, logical time systems for distributed systems, N-version programming, checkpointing, optimistic and pessimistic logging schemes, software engineering issues in designing fault tolerant and reliable software, and schemes for reliable communication. Students will be required to develop a non-trivial reliable distributed application and prepare a class presentation on a topic in reliability.
- CSCI 6450            Principles of Distributed Systems            3 cr.  
Prerequisite: CSCI 4401. A study of the concepts and design principles used in the construction of distributed computer systems. Topics include architecture and design goals; distributed time management; state and deadlock detection; name resolution; synchronization, mutual exclusion, and communication; collaborating servers; protection and security; error recovery.
- CSCI 6452            Cloud Computing            3 cr.  
Prerequisite: A grade C or better in CSCI 4401/5401. An introduction to the basics of the cloud computing paradigm: origins, enabling technologies, computing mechanisms and architectures, economic and delivery models. Hands-on experience with cloud technologies, including map/reduce, Hadoop and related technologies. Students will learn how to build algorithms for the cloud and optimize them for performance.
- CSCI 6501            Formal Methods in Programming Languages            3 cr.  
Prerequisite: CSCI 4501. Formal definitions and specifications for the semantics of programming languages including lambda-calculus, domain theory, and denotational descriptions of common programming language concepts.
- CSCI 6510            Compiler Construction            3 cr.  
Prerequisite: CSCI 4510. Emphasis will be placed on the implementation of programming languages. Review of lexical, syntactic and semantic analysis. Topics will include code generation, optimization, run-time structures and support, attribute grammars, table-driven code generators, and data flow analysis.
- CSCI 6587            Advanced Machine Learning in Bioinformatics I            3 cr.  
Prerequisites: CSCI 2125. An in-depth survey of advanced machine learning algorithms and their applications to bioinformatics. Selected supervised and unsupervised learning algorithms will be discussed in much technical detail. Applications to computational systems biology, personalized medicine, and biomarker discovery will be

introduced. Students will have opportunities to learn state-of-the-art machine learning algorithms and implementations.

CSCI 6588            Advanced Machine Learning in Bioinformatics II            3 cr.

Prerequisites: CSCI 6587. An in-depth survey of advanced machine learning algorithms and their applications to bioinformatics. Selected semi-supervised, supervised and unsupervised learning algorithms will be discussed in much technical detail. Applications to transcriptomics, proteomics, and genomics will be introduced. Students will have opportunities to learn state-of-the-art machine learning algorithms, implementations, and their application to solve real-world problems.

CSCI 6595            Advanced Topics in Bioinformatics            3 cr.

Prerequisite: CSCI 4567 or CSCI 4568 and one of the following: CSCI 4587, CSCI 4588, or CSCI 4595. Advanced graduate course on programming-intensive applications of bioinformatics research involving Hidden Markov Models and Support Vector Machines. Interdisciplinary (biophysics/biochemistry/EE) applications of these results. May be taken twice for a maximum of 6 credit hours.

CSCI 6601            Advanced Artificial Intelligence            3 cr.

Prerequisite: CSCI 4525. The area of artificial intelligence is one of the most diverse in the computing field. This course will go in-depth into one or more core AI sub-areas, as chosen by the instructor. Example sub-areas of study are machine learning, planning, natural language processing, and automated deduction.

CSCI 6603            Programming Language Security            3 cr.

Prerequisites: CSCI 2450, CSCI 4501, and CSCI 4621. Programming language security features and , conversely, language features that give rise to vulnerabilities. Topics include the development of secure programs of secure programs in high-level programming languages such as C/C++/Java, programming languages designed from the ground up to support security, and software engineering security principles and patterns.

CSCI 6621            Topics in Network Security and Forensics            3 cr.

Prerequisite: CSCI 4621 and CSCI 4623. A graduate course in advanced network security and computer forensics, emphasizing the development and application of tools and techniques for securing computer networks and preservation and recovery of digital evidence in networked environments. Topics include: basic issues in network security, network intrusion detection, honeypots and honeynets, and network forensics analysis. The course will include a substantial lab component.

CSCI 6631            Advanced Computer Graphics            3 cr.

Prerequisite: CSCI 4631. Commonly-used data structures for graphics displays and raster scan graphics algorithms for line and circle drawing; polygon filling; antialiasing; curve fitting; surface fitting; two- and three-dimensional clipping, including clipping to arbitrary convex volumes; hidden-line and hidden-surface removal, including ray tracing; rendering, including local and global illumination models, texture shadows, transparency, and color effects.

CSCI 6633            Computer Vision            3 cr.

Prerequisite: CSCI 4632. This course provides an overview of fundamental techniques for representing and recognizing visual patterns in two or three dimensions. Topics covered include segmentation and morphology, pattern recognition and classification, color- and text-based measures, motion analysis and optical flow, three-dimensional models from stereo imaging, knowledge-based systems and scene understanding.

CSCI 6634            Data Visualization            3 cr.

Prerequisite: CSCI 4631. An introduction to standard techniques for displaying, exploring, and understanding non-visual data from medical, scientific, engineering, financial, or other domains. Topics covered will include visualization models, data representation, color-mapping and contouring, volume rendering, data transformations, modeling, image processing techniques, animation and user interaction.

CSCI 6635            Theory & Computer Applications for Pattern Recognition            3 cr.

Prerequisites: CSCI 4525 and MATH 2511. A study of the concepts behind pattern recognition and classification with applications in the analysis of various types of data. Topics include: design of a pattern recognition system, Bayesian decision theory, Maximum-likelihood estimation, nonparametric techniques, linear discriminant analysis, multilayer neural networks, non-metric techniques, stochastic methods, unsupervised learning and clustering (including hierarchical and online clustering, component analysis, low dimensional representations).

CSCI 6640	Computational Geometry	3 cr.
Prerequisite: CSCI 4101. Using the fields of pattern recognition, computer graphics, image processing, and algorithm design for source material, this course will concentrate on algorithms and techniques for geometric computations. Topics include: computation of convex hulls, decomposition of polygons, polygon approximation, planar visibility, and other current topics of research. Students will be required to design and analyze a number of algorithms.		
CSCI 6650	Intelligent Agents and Multi-Agent Systems	3 cr.
Prerequisite: CSCI 4525. An investigation of computational systems in which several intelligent agents or agents and humans, interact. Includes architectures for building intelligent agents, design and implementation of multi-agent systems, inter-agent communication languages and protocols, problem-solving, planning, learning and adaptation techniques in multi-agent systems.		
CSCI 6990	Topics In Advanced Computer Science	3 cr.
Prerequisite: consent of department. This is an advanced graduate-level course whose topics change from semester to semester. The prerequisites change as dictated by the topic. This course may be taken multiple times for credit.		
CSCI 7000	Thesis Research	1 min. cr. - 9 max. cr.
To be repeated for credit until thesis is accepted.		
CSCI 7040	Examination or Thesis Only No Credit	0 cr.
Open to students in a thesis program who have only (other than application for degree) the final typing and acceptance by the Graduate School of their thesis or dissertation or to students in a non-thesis program who have only (other than application for degree) to pass the final examination to complete graduation requirements.		



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# Cooperative Education - Business Administration

COBA 1 Cooperative Education for Business Administration Majors 0 cr.  
Prerequisites: acceptance into the Cooperative Education Program and by an employing organization.



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# Cooperative Education - Education

COED 1 Cooperative Education for Education Majors      0 cr.

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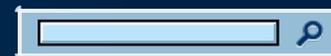
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# Cooperative Education - Engineering

COEN 1 Cooperative Education for Engineering Majors 0 cr.

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# Cooperative Education - Interdisciplinary Studies

COID 1 Cooperative Education For IDS Students 0 cr.

Prerequisites: acceptance into the Cooperative Education Program and by an employing organization.



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# Cooperative Education - Liberal Arts

COLA 1 Cooperative Education for Liberal Arts Majors      0 cr.

Prerequisites: acceptance into the Cooperative Education Program and by an employing organization.



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New Orleans, LA 70148  
888-514-4275

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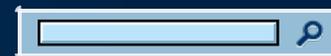
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# Cooperative Education - Sciences

COSC 1 Cooperative Education for Science Majors 0 cr.

Prerequisites: acceptance into the Cooperative Education Program and by an employing organization.



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New Orleans, LA 70148  
888-514-4275

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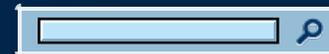
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## Education

The majority of the courses in the College of Education and Human Development are restricted to Education students only.

EDUC 1010 Introduction to Teaching as a Career 3 cr.

This course is designed to acquaint prospective teacher candidates with the major issues associated with the teaching profession. This course addresses the UNO Teacher Education Conceptual Framework that prepares teacher candidates to be reflective practitioners. Prospective teacher candidates will demonstrate proficiency in speaking, writing, technological performance and basic effective communication skills needed in the education profession.

EDUC 2100 Children & Adolescent Development for Teachers 3 cr.

This course is taken prior to admission to the teacher education program. This course presents a balance of research findings, theory, and application relevant to the study of child development from infancy through adolescence, as developmental stages and tasks are relevant to classroom teachers. The emphasis throughout the course is on the implications and use of developmental information in classrooms.

EDUC 2200 Principles of Teaching, Learning & Assessment 3 cr.

Prerequisite: EDUC 1010. This course will engage teacher candidates in discussions and activities dealing with fundamental aspects of educational philosophies, learning styles and theories, classroom management, assessment, curriculum development and lesson planning, and Louisiana state benchmarks and standards. Attention will focus on adapting instruction to meet the needs of diverse learners and the roles of educators in effective schools.

EDUC 2204 Introduction to Secondary Education 4 cr.

This course introduces teacher candidates to the knowledge, dispositions, and skills necessary to teach diverse student populations in metropolitan secondary school settings. This course includes site-based performance activities.

EDUC 3000 Meeting the Needs of All Learners II 3 cr.

Prerequisites: Admission to the Teacher Education Program. This course serves to give education majors an opportunity to improve and apply the skills required for addressing the needs of diverse learners in diverse settings. This course will be presented in three modules: 1) School Structures and Educational Philosophy, 2) Diversity, and 3) Technology. Field experience is required in this course.

EDUC 3001 Tier III Performance Assessment - Early Childhood Education 0 cr.

Prerequisite: Teacher Candidates must enroll in this course the semester prior to student teaching. This course supports students in their performance assessments for certification in Early Childhood Education. As part of the

assessment, candidates create an electronic portfolio that provides evidence of meeting Specialty Professional Area (SPA), State, and Unit Standards.

EDUC 3002 Tier III Assessment - Elementary  
0 cr.

Prerequisite: Teacher Candidates must enroll in this course the semester prior to student teaching. This course supports students in their performance assessments for Elementary Education. As part of the assessment, candidates create an electronic portfolio that provides evidence of meeting Specialty Professional Area (SPA), State, and Unit Standards. Students enrolled in the Integrated to Merged Approach Program 1-5 must also register for EDUC 3003.

EDUC 3003 Tier III Assessment - Integrated to Merged Approach for 1-5  
0 cr.

Prerequisite: Teacher Candidates must enroll in this course the semester prior to student teaching. This course supports students in their performance assessments for the Integrated to Merged Approach for grades 1-5 Education Program. Successful completion of this course will allow candidates to enter Tier IV (Student Teaching). As part of the assessment, candidates create an electronic portfolio that provides evidence of meeting Specialty Professional Area (SPA), State, and Unit Standards.

EDUC 3004 Tier III Performance Assessment - Music Education K-12  
0 cr.

Prerequisite: Teacher Candidates must enroll in this course the semester prior to student teaching. This course supports students in their performance assessments for certification in Music Education K-12. As part of the assessment, candidates create an electronic portfolio that provides evidence of meeting Specialty Professional Area (SPA), State, and Unit Standards.

EDUC 3005 Tier III Performance Assessment - English 0 cr.

Prerequisite: Teacher Candidates must enroll in this course the semester prior to student teaching. This course supports students in their performance assessments for certification in Secondary English Education. As part of the assessment, candidates create an electronic portfolio that provides evidence of meeting Specialty Professional Area (SPA), State, and Unit Standards.

EDUC 3006 Tier III Performance Assessment - Mathematics  
0 cr.

Prerequisite: Teacher Candidates must enroll in this course the semester prior to student teaching. This course supports students in their performance assessments for certification in Secondary Mathematics Education. As part of the assessment, candidates create an electronic portfolio that provides evidence of meeting Specialty Professional Area (SPA), States, and Unit Standards.

EDUC 3007 Tier III Performance Assessment - Science 0 cr.

Prerequisite: Teacher Candidates must enroll in this course the semester prior to student teaching. This course supports students in their performance assessments for certification in Secondary Science Education. As part of the assessment, candidates create an electronic portfolio that provides evidence of meeting Specialty Professional Area (SPA), State, and Unit Standards.

EDUC 3008 Tier III Performance Assessment - Social Studies 0 cr.

Prerequisite: Teacher Candidates must enroll in this course the semester prior to student teaching. This course supports students in their performance assessments for certification in Secondary Social Studies Education. As part of the assessment, candidates create an electronic portfolio that provides evidence of meeting Specialty Professional Area (SPA), State, and Unit Standards.

EDUC 3100 Differentiated Curriculum & Instruction  
3 cr.

Prerequisites: Admission to the Teacher Education Program. This course focuses on differentiating strategies to diagnose learner needs, adapt and modify curriculum materials, plan and implement instruction, develop assignments, and evaluate learning outcomes.

EDUC 3110 Behavior Support and Classroom Management 3 cr.

Prerequisites: Admission to the Teacher Education Program. This course focuses on classroom management within school settings. It includes procedures for group behavior management, strategies for assessing and responding to individual student behavior, using a problem-solving approach for changing behavior, and supporting appropriate behaviors in learning activities and settings.

EDUC 3982      Independent Study in Core Education Areas      1 min. cr. - 3 max. cr.

Prerequisite: Consent of department. Investigations of pertinent topics under the direction of a faculty member. This course may be repeated but the total credit may not exceed three semester hours. Section number will correspond with credits to be earned.

EDUC 4000      Meeting the Needs of All Learners III      3 cr.

Prerequisites: Consent of department. This course serves to give education majors an opportunity to advance the skills required for addressing the needs of diverse learners in diverse settings. This course will be presented in three modules: 1) School Structures and Educational Philosophy, 2) Diversity, and 3) Technology. Field experience is required in this course, which must be taken concurrently with the student teaching experience (either EDUC 4910, EDUC 4920, EDUC 4940, or EDUC 4950). This course may not be taken for graduate credit.

EDUC 4813      Capstone Internship - Grades PK-3      3 min. cr. - 6 max. cr.

Prerequisites: Consent of department and completion of all coursework in the program of study. This course provides the candidate with a capstone experience of teaching full time. Candidates complete a set of field experiences aligned with demonstrating the Louisiana Components of Effective Teaching. Candidates document their professional development via an electronic professional portfolio using artifacts resulting from the internship. Candidates in the master's program enrolled in 4813G earn graduate credit.

EDUC 4823      Capstone Internship - Grades 1-5      3 min. cr. - 6 max. cr.

Prerequisites: Consent of department and completion of all coursework in the program of study. This course provides the candidate with a capstone experience of teaching full time. Candidates complete a set of field experiences aligned with demonstrating the Louisiana Components of Effective Teaching. Candidates document their professional development via an electronic professional portfolio using artifacts resulting from the internship. Candidates in the master's program enrolled in 5823 earn graduate credit.

EDUC 4833      Capstone Internship - Grades 4-8      3 min. cr. - 6 max. cr.

Prerequisites: Consent of department and completion of all coursework in the program of study. This course provides the candidate with a capstone experience of teaching full time. Candidates complete a set of field experiences aligned with demonstrating the Louisiana Components of Effective Teaching. Candidates document their professional development via an electronic professional portfolio using artifacts resulting from the internship. Candidates in the master's program enrolled in 5833 earn graduate credit.

EDUC 4843      Capstone Internship - Grades 6-12      3 min. cr. - 6 max. cr.

Prerequisites: Consent of department and completion of all coursework in the program of study. This course provides the candidate with a capstone experience of teaching full time. Candidates complete a set of field experiences aligned with demonstrating the Louisiana Components of Effective Teaching. Candidates document their professional development via an electronic professional portfolio using artifacts resulting from the internship. Candidates in the master's program enrolled in 5843 earn graduate credit.

EDUC 4853      Capstone Internship - Special Education      3 min. cr. - 6 max. cr.

Prerequisites: Consent of department and completion of all coursework in the program of study. This course provides the candidate with a capstone experience of teaching full time. Candidates complete a set of field experiences aligned with demonstrating the Louisiana Components of Effective Teaching. Candidates document their professional development via an electronic professional portfolio using artifacts resulting from the internship. Candidates in the master's program enrolled in 5853 earn graduate credit.

EDUC 4903      Extended Practice Opportunity      3



EDUC 4970 Student Teaching - General Special Education Mild/Moderate 1-5 9  
cr.

Prerequisite: Consent of the department. This course provides the candidate with an opportunity to assume the role of both a general and a special educator within a total school program. Candidates will apply the theory-practice interaction model while implementing the principles, methods, knowledge, and materials acquired from previous coursework. Candidates in the undergraduate program must also concurrently enroll in EDUC 4000. Candidates in the master's program enrolled in 5970 earn graduate credit.

EDUC 5100 Differentiated Curriculum & Instruction 3  
cr.

This course focuses on the need to differentiate strategies to meet the needs of all learners. Teacher Candidates learn to diagnose students' needs, adapt and modify curriculum materials, plan and implement instruction, develop assignments, and evaluate learning outcomes. Candidates will participate in field experiences at school sites and generate artifacts to document performance of required competencies. Offered for graduate credit only.

EDUC 5813 Capstone Internship - Grades PK-3 3 min. cr. -  
6 max. cr.

Prerequisites: Consent of department and completion of all coursework in the program of study. This course provides the candidate with a capstone experience of teaching full time. Candidates complete a set of field experiences aligned with demonstrating the Louisiana Components of Effective Teaching. Candidates document their professional development via an electronic professional portfolio using artifacts resulting from the internship. Candidates in the master's program enrolled in 4813G earn graduate credit.

EDUC 5823 Capstone Internship - Grades 1-5 3 min. cr.  
- 6 max. cr.

Prerequisites: Consent of department and completion of all coursework in the program of study. This course provides the candidate with a capstone experience of teaching full time. Candidates complete a set of field experiences aligned with demonstrating the Louisiana Components of Effective Teaching. Candidates document their professional development via an electronic professional portfolio using artifacts resulting from the internship. Candidates in the master's program enrolled in 5823 earn graduate credit.

EDUC 5833 Capstone Internship - Grades 4-8 3 min. cr.  
- 6 max. cr.

Prerequisites: Consent of department and completion of all coursework in the program of study. This course provides the candidate with a capstone experience of teaching full time. Candidates complete a set of field experiences aligned with demonstrating the Louisiana Components of Effective Teaching. Candidates document their professional development via an electronic professional portfolio using artifacts resulting from the internship. Candidates in the master's program enrolled in 5833 earn graduate credit.

EDUC 5843 Capstone Internship - Grades 6-12 3 min. cr.  
- 6 max. cr.

Prerequisites: Consent of department and completion of all coursework in the program of study. This course provides the candidate with a capstone experience of teaching full time. Candidates complete a set of field experiences aligned with demonstrating the Louisiana Components of Effective Teaching. Candidates document their professional development via an electronic professional portfolio using artifacts resulting from the internship. Candidates in the master's program enrolled in 5843 earn graduate credit.

EDUC 5853 Capstone Internship - Special Education 3 min. cr. - 6  
max. cr.

Prerequisites: Consent of department and completion of all coursework in the program of study. This course provides the candidate with a capstone experience of teaching full time. Candidates complete a set of field experiences aligned with demonstrating the Louisiana Components of Effective Teaching. Candidates document their professional development via an electronic professional portfolio using artifacts resulting from the internship. Candidates in the master's program enrolled in 5853 earn graduate credit.

EDUC 5863 Capstone Internship - General Special Education Mild/Moderate 1-5  
6 cr.

Prerequisites: Consent of the department and the final semester for students in the Master of Arts in Teaching. This internship provides the candidate who is currently employed in the intended area of certification with an



EDUC 5960 Student Teaching- Special Education 3 min. cr. - 9  
max. cr.

Prerequisite: Consent of the department. This course provides the candidate with an opportunity to apply competencies essential for effective teaching and to assume the role of an educator within the school program. The goal of student teaching is to have candidates operationalize the theory-practice interaction model. Candidates in the master's programs enrolled in EDUC 5960 earn graduate credit.

EDUC 5970 Student Teaching - General Special Education Mild/Moderate 1-5 9  
cr.

Prerequisite: Consent of the department. This course provides the candidate with an opportunity to assume the role of both a general and a special educator within a total school program. Candidates will apply the theory-practice interaction model while implementing the principles, methods, knowledge, and materials acquired from previous coursework. Candidates in the undergraduate program must also concurrently enroll in EDUC 4000. Candidates in the master's program enrolled in 5970 earn graduate credit.

EDUC 5980 Student Teaching - General Special Education Mild/Moderate 4-8 9  
cr.

Prerequisite: Consent of the department. This course provides the candidate who is not currently employed in their declared area of certification with an opportunity to assume the role of both a general and a special educator within a total school program. Candidates will apply the theory-practice interaction model .

EDUC 5990 Student Teaching - General Special Education Mild/Moderate 6-12 9  
cr.

Prerequisite: Consent of the department. This course provides the candidate who is not currently employed in their declared area of certification with an opportunity to assume the role of both a general and a special educator within a total school program. Candidates will apply the theory-practice interaction model.

EDUC 6001 Master of Arts in Teaching Performance Assessment - Early Childhood  
Education 0 cr.

Prerequisite: This course must be taken by students in the last semester of coursework prior to Student Teaching or Capstone Internship.

This is a required course that supports teacher candidates in completing the performance assessment for their certification area. Students will spend sufficient time in school settings to complete requirements and produce an electronic portfolio that provides evidence of meeting National Association for the Education of Young Children (NAEYC), State, and Unit Standards.

EDUC 6002 Master of Arts in Teaching Performance Assessment - Elementary  
Education 0 cr.

Prerequisite: This course must be taken by students in the last semester of coursework prior to Student Teaching or Capstone Internship.

This is a required course that supports teacher candidates in completing the performance assessment for their Elementary certification area. Candidates will spend sufficient time in school settings to complete requirements and produce an electronic portfolio that provides evidence of meeting Specialty Professional Area (SPA), State, and Unit Standards. Candidates enrolled in the Integrated to Merged Approach for Grades 1-5 must register for this course as well as EDUC 6003.

EDUC 6003 Master of Arts in Teaching Performance Assessment - Integrated to  
Merged Approach for 1-5, 4-8, 6-  
12 0 cr.

Prerequisite: This course must be taken by students in the last semester of coursework prior to Student Teaching or Capstone Internship.

This is a required course that supports teacher candidates in completing the performance assessment for their Integrated to Merges approach for Grades 1-5, 4-8, or 6-12 certification area. Students will spend sufficient time in school settings to complete requirements and produce an electronic portfolio that provides evidence of meeting Specialty Professional Area (SPA), State, and Unit Standards. Candidates enrolled in the Integrated to Merged Approach must also register for the Performance Assessment Course in their general education area.

EDUC 6005      Master of Arts in Teaching Performance Assessment - English      0  
cr.

Prerequisite: This course must be taken by teacher candidates in the last semester of coursework prior to Student Teaching or Capstone Internship.

This is a required course that supports candidates in completing the performance assessment for candidates majoring and seeking certification in English. Candidates will spend sufficient time in school settings to complete requirements and produce an electronic portfolio that provides evidence of meeting Specialty Professional Area (SPA), States, and Unit Standards. Candidates enrolled in the Integrated to Merged Approach (4-8, 6-12) and English Education (4-8, 6-12) enroll in both EDUC 6003 and EDUC 6005.

EDUC 6006      Master of Arts in Teaching Performance Assessment- Mathematics      0  
cr.

Prerequisite: This course must be taken by teacher candidates in the last semester of coursework prior to Student Teaching or Capstone Internship. This is a required course that supports candidates in completing the performance assessment for candidates majoring and seeking certification in Mathematics. Candidates will spend sufficient time in school settings to complete requirements and produce an electronic portfolio that provides evidence of meeting Specialty Professional Area (SPA), State, and Unit Standards. Candidates enrolled in the Integrated to Merged Approach (4-8, 6-12) and Mathematics Education enroll in both EDUC 6003 and EDUC 6006.

EDUC 6007      Master of Arts in Teaching Performance Assessment - Science  
0 cr.

Prerequisite: This course must be taken by teacher candidates in the last semester of coursework prior to Student Teaching or Capstone Internship. This is a required course that supports candidates in completing the performance assessment for candidates majoring and seeking certification in Science. Candidates will spend sufficient time in school settings to complete requirements and produce an electronic portfolio that provides evidence of meeting Specialty Professional Area (SPA), State, and Unit Standards. Candidates enrolled in the Integrated to Merged Approach (4-8, 6-12) and Science Education enroll in both EDUC 6003 and EDUC 6007.

EDUC 6008      Master of Arts in Teaching Performance Assessment - Social Studies      0  
cr.

Prerequisites: This course must be taken by students in the last semester of coursework prior to Student Teaching or Capstone Internship. This is a required course that supports teacher candidates in completing the performance assessment for candidates majoring and seeking certification in Social Studies. Candidates will spend sufficient time in school settings to complete requirements and produce an electronic portfolio that provides evidence of meeting Specialty Professional Area (SPA), State, and Unit Standards. Candidates enrolled in the Integrated to Merged Approach (4-8, 6-12) and Social Studies Education enroll in both EDUC 6003 and EDUC 6008.

EDUC 6009      Master of Arts in Teaching Performance Assessment - Significant  
Disabilities      0 cr.

Prerequisite: This course must be taken by students in the last semester of coursework prior to Student Teaching or Capstone Internship. This is a required course that supports teacher candidates in completing the performance assessment for candidates majoring and seeking certification in Significant Disabilities. Candidates will spend sufficient time in school settings to complete requirements and produce an electronic portfolio that provided evidence of meeting Specialty Professional Area (SPA), State, and Unit Standards.

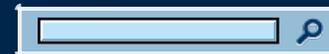
EDUC 6010      Master of Arts in Teaching Performance Assessment - Early  
Intervention      0 cr.

Prerequisite: This course must be taken by students in the last semester of coursework prior to Student Teaching or Capstone Internship. This is a required course that supports teacher candidates in completing the performance assessment for candidates majoring and seeking certification in Early Intervention Education. Candidates will spend sufficient time in school settings to complete requirements and produce an electronic portfolio that provides evidence of meeting Specialty Professional Area (SPA), State, and Unit Standards.

EDUC 6011      Master of Arts in Teaching Performance Assessment - Hearing  
Impaired      0 cr.

Prerequisite: This course must be taken by students in the last semester of coursework prior to Student Teaching




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## Counselor Education

EDGC 6090      Independent Research in Educational Foundations      1 min. cr. - 3 max. cr.

(EDFR 6090 and EDGC 6090 are cross-listed) Prerequisites: consent of department and major professor. Independent research under the supervision of a graduate faculty member. The course may be repeated but total credit may not exceed six semester hours. Section number will correspond with credit to be earned.

EDGC 6330      Career Counseling and Life Planning      3 cr.

Prerequisite: admission to degree program or consent of department. The theory, nature, and principles of career development and counseling.

EDGC 6400      Theories of Counseling      3 cr.

Examination of the major theoretical approaches to counseling and their relationship to the counseling process. Analysis and evaluation of the function of theoretical constructs and their impact on counseling practice.

EDGC 6420      Lifespan Human Growth and Development      3 cr.

Prerequisite: Open to Education students only. Application of principles of human growth and development to counseling.

EDGC 6430      Counseling Techniques      3 cr.

An analysis of the theory, dynamics, and practice of counseling clients. Lab experience required.

EDGC 6435      Substance Abuse Counseling      3 cr.

Prerequisites: EDGC 6400, 6430 and admission to a degree program or consent of department. Theories and techniques of counseling substance abusing clients, as well as an examination of the physiological and psychological aspects of substance abuse, will be covered in this course designed for students in counseling related fields. The course will also include practice in various counseling techniques utilized in the treatment of alcohol and drug abusing clients.

EDGC 6439      Advanced Counseling Theories      3 cr.

Prerequisite: EDGC 6400 and admission to doctoral degree program or consent of the department. This course provides instruction in the major counseling theories introduced in EDGC 6400. Students examine the original works of major theorists and develop professional expertise in several approaches to the practice of counseling.

EDGC 6440      Advanced Counseling Techniques      3 cr.

Prerequisites: EDGC 6400, 6430 and admission to a degree program or consent of department. This course includes an experiential approach to the development of counseling skills and the conceptualization of client concerns. The application of principles and techniques of major counseling theories will be presented. Skill practice will be included. Lab experience required.

EDGC 6450      Group Work      3 cr.

Prerequisite: EDGC 6430, 6440 and admission to degree program or consent of department. An examination of the history, contemporary research findings, and conceptual models, process issues, and ethics involved in the effective practice of group work. Participation in a group experience required.

- EDGC 6452 Introduction to Multicultural Counseling 3 cr.  
Prerequisite: EDGC 6430 and admission to a degree program or consent of department. The application of counseling techniques to special populations with culturally different backgrounds. The course is designed to help counselors maximize their effectiveness by understanding both similarities and differences of a multicultural population.
- EDGC 6460 Supervised Experience in Group Work 3 cr.  
Prerequisite: doctoral standing or consent of department. Through supervised experience, examination of contemporary conceptual model, and research findings which emphasize process and content issues, students will learn to lead interpersonal problem solving and task groups effectively.
- EDGC 6530 Student Services in Higher Education 3 cr.  
(EDAD 6530 and EDGC 6530 are cross-listed) A study of student personnel programs in colleges and universities. The history, philosophy, and organization; student rights and responsibilities; discipline; and administration of these programs within the context of the purpose of higher education institutions.
- EDGC 6535 Diagnosis and Treatment Planning in Counseling 3 cr.  
Prerequisites: EDGC 6400 and admission to degree program or consent of department. The theory and practice of counseling as applied to human services agencies. The role and function of the counselor in human services agencies are emphasized.
- EDGC 6540 Clinical Mental Health Counseling 3 cr.  
This course provides an overview of the theory and practice of counseling in human services agencies and other community settings. Emphasis is given to the role, function, and professional identity of community counselors, and to principles and practices of community outreach, intervention, education, consultation, and client advocacy.
- EDGC 6550 School Counseling 3 cr.  
Prerequisite: EDGC 6400 and admission to degree program or consent of department. This course will provide an introduction to current concepts relative to the school counseling profession. Practical application of concepts within the diverse range of school environments will be covered. Structuring and implementation of a feasible comprehensive counseling program will be emphasized.
- EDGC 6630 Analysis of the Individual 3 cr.  
Prerequisites: admission to degree program or consent of department. Qualitative and quantitative assessment of the individual in various phases of development, traits, potentialities, and accomplishments. Assessment techniques are examined with regard to health development. Developing a case study and planning treatment are included.
- EDGC 6660 Crisis Intervention Counseling 3 cr.  
Prerequisites: EDGC 6400, 6430, 6440 and admission to a degree program or consent of department. The theory and practical application of crisis intervention and disaster mental health techniques. Special attention is given to counseling approaches for use with circumstantial and development disasters and crises.
- EDGC 6810 Introduction to Supervision in Counseling 3 cr.  
Prerequisites: EDGC 6896 with a B or better. The theories and techniques counselor supervisors utilize in providing clinical supervision to counselors. The process of administrative supervision utilized by counselor in work settings.
- EDGC 6830 Counseling Children and Adolescents 3 cr.  
Prerequisites: EDGC 6400, 6430, and admission to degree program or consent of department. The study of counseling children and adolescents in elementary, middle, and high schools or community agencies. Focus on counseling theories, techniques, concepts, interventions, and skills appropriate for children and adolescents.
- EDGC 6840 Family Counseling 3 cr.  
Prerequisite: admission to a degree program or consent of department. An introduction to the theoretical models and practitioner skills for counseling with families. The course includes specific emphasis on short-term approaches for family-related counseling problems.
- EDGC 6850 Ethical, Legal and Professional Issues in Counseling 3 cr.  
Prerequisite: admission to degree program or consent of department. This course provides an overview of the

critical professional issues in counseling with emphasis on current ethical and values-related questions and their relationship to the counselor's role in training, supervision, practice, consultation, appraisal, and research.

EDGC 6852      Advanced Multicultural Counseling      3 cr.

Prerequisites: EDGC 6452, doctoral standing or consent of department. An advanced exploration of issues involved in culturally competent counseling, counseling supervision, and counselor education. Current social and cultural issues, social change theory, oppression models, and advocacy action planning for counselors, supervisors, and counseling faculty members are addressed. All types of human diversity and equity issues in counseling, counseling supervision, and counselor education are reviewed. Students examine their own cultural heritage and racial identity development in relation to the counseling relationship, counseling supervision, and counselor education.

EDGC 6860      Introduction to Play Therapy      3 cr.

Prerequisites: EDGC 6400, 6430, admission to degree program, or consent of the department. Introduction to major theories and counseling techniques specifically designed for children ages 2-15. This will include play and creative techniques applicable with various populations in numerous settings and adaptable to individual, family, and group modalities.

EDGC 6870      Advanced Play Therapy      3 cr.

Prerequisites: EDGC 6400, 6430, 6860, and admission to degree program or consent of department. Advanced instruction in play therapy. Strategies for successful practice. Development of specific play therapy skills.

EDGC 6880      Advanced Counseling Interventions      3 cr.

Prerequisites: EDGC 6430, 6440, 6550, 6897, doctoral standing or consent of department. The study of advanced interventions utilized by experienced professional counselors in providing counseling services to clients. Models and methods of assessment and use of data in evaluating client problems. Application of theory to practice.

EDGC 6896      Master's Practicum in Counseling      3 cr.

Prerequisite: EDGC 6400, 6430, 6440, 6450 and (6540 or 6550), minimum of 36-credit hours of course work completed in degree program, and approved practicum application. Application of theory and development of counseling skills under supervision while counseling in schools, community agencies, higher education, hospitals, or other controlled clinical settings that a total a minimum of 100 clock hours over a minimum 10-week academic term.

EDGC 6897      Master's Internship in Counseling      3 cr.

Prerequisite: EDGC 6896 and approved internship application. Application of theory and development of counseling skills under supervision while counseling in schools, community agencies, higher education, hospitals, or other controlled clinical settings that total a minimum of 300 clock hours, Two semesters of internship are required, thus, the course must be repeated.

EDGC 6898      Doctoral Practicum in Counselor Education      3 cr.

Prerequisite: Admission to doctoral program in counselor education and approved practicum application. Further application of counseling theory, skills, techniques, and intervention strategies under supervision while counseling in schools, community agencies, higher education, hospitals, or other controlled clinical settings that total a minimum of 100 hours in counseling.

EDGC 6899      Doctoral Internship in Counseling      1 min. cr. - 3  
max. cr.

Prerequisite: EDGC 6898 and approved internship application. Observation and participation of supervision of master's level counseling students, clinical practice, teaching, and research that total a minimum of 300 clock hours. Course must be repeated until a minimum of six credit hours are earned.

EDGC 6950      Advanced Ethical, Legal, & Professional Issues in Counselor Education      3 cr.

Prerequisite: EDGC 6850 and admission to doctoral program. Advanced study of ethical, legal and professional issues in counseling practice, counselor education, and counselor supervision.

EDGC 6991      Doctoral Teaching Practicum in Counselor Education      3 cr.

Prerequisites: 12 hours of doctoral coursework in counselor education or consent of department. This course is a structured tutorial in teaching counselor education courses at the graduate level. It is designed to provide future

counselor educators with the techniques and strategies to improve their teaching skills. Applied and practical principles of effective pedagogy for teaching and learning in higher education are presented. Students receive actual experience in all aspects of classroom teaching.

EDGC 6993      Special Topics in Counselor Education      1 min. cr.  
- 3 max. cr.

Prerequisite: consent of department. Topic will vary from semester to semester. Section number will correspond with the credit to be earned. Course may be repeated for a maximum of six semester hours within a particular degree program.

EDGC 6995      Independent Study in Counselor Education      1 min. cr. - 3  
max. cr.

Prerequisites: consent of department and major professor. Investigation of pertinent problems under the direction of a graduate faculty member. This course may be repeated but total credit may not exceed six semester hours. Section number will correspond with credit to be earned.

EDGC 6996      Advanced Supervision in Counseling      3 cr.

Prerequisites: EDGC 6810 and doctoral standing or consent of department. Advanced clinical techniques of supervising counselors. Theory, research, and experience in monitoring and evaluating counselor performance during stages of the counseling process are emphasized. Ethical and legal issues in counseling supervision and counselor education. Field experience required.

EDGC 6997      Research Seminar in Counselor Education      3 cr.

Prerequisite: consent of department. Doctoral students will complete their dissertation proposals under faculty supervision. Course must be completed for credit until dissertation proposal has been accepted by the student's committee. A maximum of three semester hours of credit may be counted in a degree program.

EDGC 7040      Examination or Thesis Only No credit      0 cr.

No credit. Open to students in a thesis program who have only (other than application for degree) the final typing and acceptance by the Graduate School of their thesis or dissertation or to students in a non-thesis program who have only (other than application for degree) to pass the final examination to complete graduation requirements.

EDGC 7050      Dissertation Research      1 min.  
cr. - 9 max. cr.

To be repeated for credit until the dissertation is accepted. Section number will correspond with credit to be earned.



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## Curriculum and Instruction

EDCI 3140      Materials and Methods in Elementary School Mathematics      3 cr.

Prerequisite: Admission to the Teacher Education Program. This course develops competencies in planning, conducting, and evaluating instruction in elementary school mathematics. Field experiences in local schools are included in this course.

EDCI 3150      Materials and Methods in Elementary School Science      3 cr.

Prerequisite: Admission to the Teacher Education Program Introduction to newer programs and instructional strategies in the teaching of elementary school science. Laboratory experience in the university and elementary school classroom is provided. Field experiences in local schools are also included in this course.

EDCI 3160      Materials and Methods in Elementary School Social Studies      3 cr.

Prerequisite: Admission to the Teacher Education Program. This course is designed to investigate the purposes of social studies, understand and evaluate recent developments in content and instructional procedure, and develop competencies in planning and conducting instruction in elementary school social studies. Field experiences in local schools are included in this course.

EDCI 3310      Developmentally Responsive Curriculum and Instruction for Adolescents      3 cr.

Prerequisites: Admission to the Teacher Education Program and concurrent enrollment in EDCI 3311. This course lays the foundation for teachers of students in secondary schools. It addresses physical, emotional, cognitive, social characteristics, and development of the adolescent, with emphasis on psychological and physical wellness, components of exemplary middle and high schools, and developmentally responsive curricular and instructional strategies.

EDCI 3311      Field Experience: Developmentally Responsive C & I for Adolescents      1 cr.

Prerequisite: Admission to the Teacher Education Program and concurrent enrollment in EDCI 3310. This is a required one-credit-hour Field Experience that supports candidates in applying the content of EDCI 3310 within the classroom. Candidates must spend two hours weekly in middle and/or high school settings to implement required field activities. Candidate field work will generate artifacts to document performance of required competencies.

EDCI 3340      Methods for Developing Algebraic and Geometric Thinking      3 cr.

Prerequisites: Admission to the Teacher Education Program and EDCI 3140. The course will focus on the teaching of algebra and geometry and their connections to other content areas of the elementary mathematics curriculum. Field experiences in local schools are included in this course.

EDCI 3400      Foundations of Literacy      3 cr.

This course provides an overview of theories of literacy development and introduces teacher candidates to varied

approaches to literacy instruction with an emphasis on strategies drawn from empirical research regarding literacy learning and teaching.

EDCI 3410 Instruction for Early Literacy Development 3 cr.  
Prerequisites: Admission to the Teacher Education Program and EDCI 3400. This course provides an overview of theories of literacy development and introduces teacher candidates to varied approaches to literacy instruction with an emphasis on strategies drawn from empirical research regarding literacy learning and teaching. Field experiences in local schools are included in this course.

EDCI 3425 Literacy Instruction for Content Learning 3 cr.  
Prerequisite: Admission to the Teacher Education Program and EDCI 3400 . This course introduces literacy instruction for children in grades 4 - 8. Topics addressed include principles of literacy development in upper elementary grades, reading and writing in content areas, assessment of literacy development, materials and methods appropriate for literacy instruction in the middle grades, and planning and organizing for instruction in -8 classrooms. Field experiences in local schools are included in this course.

EDCI 3440 Practicum in Corrective Reading 3 cr.  
Prerequisite: Admission to the Teacher Education Program and EDCI 3410 . This course familiarizes teacher candidates with techniques and materials used to identify those children in the classroom who are performing below their potential in reading. It provides teacher candidates with the experience of developing appropriate instruction for these students. Field experience is required during the course.

EDCI 3500 Observation & Assessment in Early Childhood Classrooms 3 cr.  
The course is designed to teach strategies for observing, documenting, assessing, and reporting the development of young children, and further, to utilize this data to plan curricula and strategies which will foster the development of all children in inclusive nursery and kindergarten classrooms.

EDCI 3510 Understanding & Facilitating Play in PreK-3 3 cr.  
Prerequisite: Admission to the Teacher Education Program. This course includes information about the importance of play in the development and learning of young children, how to facilitate play to an optimal level, and how to advocate for young children's right to rich opportunities to play at home, in school, and throughout the community. Enrollment in the course includes 20 hours of field experiences.

EDCI 3520 Classroom Management in PreK-3 3 cr.  
Prerequisite: Admission to the Teacher Education Program and EDCI 3500. This course includes information necessary to create and maintain psychologically and physically safe environments which foster development and learning among children in preschool through grade 3. This course includes 20 hours of field experiences.

EDCI 3530 Curricula Development for PreK-3 3 cr.  
Prerequisite: Admission to the Teacher Education Program, EDCI 3500 and EDCI 3510. This course includes information related to creating environments that foster optimal development and learning among young children and strategies related to creating an integrated and seamless curriculum that honors each child's development and abilities. This course includes 20 hours of field experiences.

EDCI 3540 The Development of Logico-Mathematical Knowledge in PreK-3 3 cr.  
Prerequisite: Admission to the Teacher Education Program. This course includes information on major theories and principles related to the development of early math literacy skills in grades PreK-3. It explores methods and materials for promoting early math literacy, develops logico-mathematical knowledge (discovering/constructing relationships as students try to make sense of their world), and techniques for integrating early math literacy concepts into themes, projects, play, and other learning experiences. This course includes 20 hours of field experiences.

EDCI 3980 Independent Study in Curriculum and Instruction 1 min. cr.  
- 3 max. cr.  
Prerequisite: a minimum of 92 credit hours and consent of the department and major professor. Investigation of pertinent problems under the direction of a Curriculum and Instruction faculty member. More than three credit hours may not be applied to any degree program. Section number will correspond with credit to be earned.

EDCI 3999 Honors Thesis 3 cr.

Prerequisites: consent of department and admission to Honors in Education program. Directed research with relevance to teacher education culminating in a written thesis to meet the requirements for graduation with Honors in Education and if appropriate University Honors. May be repeated for a total of six credits.

EDCI 4140 Strategies for Teaching of Elementary School Mathematics 3 cr.

This course provides teaching strategies, methods, and instructional materials for elementary school mathematics instruction. Twenty hours of field-based experiences are included in this course.

EDCI 4201 Field Experience in Secondary Subject Areas 1 cr.

Prerequisite: Admission to the Teacher Education Program and concurrent enrollment in EDCI 4220, 4240, 4250, or 4260. This field experience course consists of 30 hours of observational and participatory experiences in secondary school settings and applies the content of secondary subject area methods courses to the classroom.

EDCI 4220 Materials and Methods in Secondary School English 3 cr.

Prerequisites for undergraduate students: Admission to the Teacher Education Program and concurrent enrollment in EDCI 4201; Prerequisites for graduate students: EDCI 6800. This course is designed to develop competencies in planning, conducting, and evaluating instruction in English. Appropriate field experiences may be required.

EDCI 4221 Materials and Methods in Secondary School English II 3 cr.

Prerequisites: Admission to the Teacher Education Program, consent of department and concurrent enrollment in EDUC 4920: Student Teaching. This course is the second methods course for undergraduates seeking certification in Secondary English. It further develops competencies in planning, conducting, and evaluating instruction in the English language arts.

EDCI 4240 Secondary Math Methods 3 cr.

Prerequisites for undergraduate students: Admission to the Teacher Education Program and concurrent enrollment in EDCI 4201; Prerequisites for graduate students: EDCI 6800, EDSP 5020, EDUC 5100, or EDUC 5200. This course will focus on the teaching of 6-12 grade mathematics through multiple representations that include manipulatives and technology. The building and manipulation of representations of two and three-dimensional objects as well as the visualization of objects from different perspectives using dynamic technological software are also explored. Fieldwork will be required as part of this course.

EDCI 4241 Secondary Math Methods II 3 cr.

Prerequisites: Admission to the Teacher Education Program, consent of department and concurrent enrollment in EDUC 4920: Student Teaching. This course is the second methods course for undergraduates seeking certification in Secondary Mathematics. It further develops competencies in planning, conducting, and evaluating instruction in mathematics.

EDCI 4250 Materials and Methods in Secondary School Science 3 cr.

Prerequisites for undergraduate students: Admission to the Teacher Education Program and concurrent enrollment in EDCI 4201; Prerequisites for graduate students: EDCI 6800, EDSP 5020, EDUC 5100, or EDUC 5200. This course is designed to provide experiences with programs and instructional strategies oriented toward the teaching of biological and physical science by inquiry. Appropriate field experiences are required.

EDCI 4251 Materials and Methods in Secondary School Science II 3 cr.

Prerequisites: Admission to the Teacher Education Program, consent of department and concurrent enrollment in EDUC 4920: Student Teaching. This is the second methods course for undergraduates seeking certification in Secondary Science. It further develops competencies in planning, conducting, and evaluating instruction in the sciences.

EDCI 4260 Methods and Materials of Secondary Social Studies 3 cr.

Prerequisites for undergraduate students: Admission to the Teacher Education Program and concurrent enrollment in EDCI 4201; Prerequisites for graduate students: EDCI 6800, EDSP 5020, EDUC 5100, or EDUC 5200. This course will provide future social studies teachers the opportunity to examine the role of social studies in the modern secondary curriculum. This examination will include the nature of the disciplines which comprise social studies and their connectedness. Students will also investigate the challenges inherent in teaching social studies and prepare strategies for teaching the various courses in the social studies curriculum at the secondary level. This class will also look at current scholarship in the social studies with an emphasis on best practice in

methods and materials.

EDCI 4261            Materials and Methods in Secondary School Social Studies II            3 cr.

Prerequisites: Admission to the Teacher Education Program , consent of department and concurrent enrollment in EDUC 4920: Student Teaching. This course is the second methods course for undergraduates seeking certification in Secondary Social Studies. It further develops competencies in planning, conducting, and evaluating instruction in social studies.

EDCI 4400            Foundations of Literacy Development            3 cr.

This course examines theories of literacy development and provides an introduction to various current approaches to literacy instruction, with an emphasis on strategies drawn from empirical research regarding literacy learning and teaching from birth through adulthood.

EDCI 4421            Linguistic Applications in Reading-Language Arts            3 cr.

Designed to provide teachers of the English language arts with a basic understanding of linguistics in order to help them improve their capacity for making decisions about instruction.

EDCI 4423            Teaching Reading-Language Arts in a Multicultural Society            3 cr.

Designed to provide the student with an understanding of language differences in a multicultural society and with a variety of programs designed for teaching students having language and cultural differences.

EDCI 4425            Materials and Methods for Teaching English as a Second Language            3 cr.

Intensive study of linguistic developments in second language acquisition and practices in teaching English to non-native speakers of the language.

EDCI 4432            Teaching Reading in Content Areas            3 cr.

Prerequisites for undergraduate students: Admission to the Teacher Education Program; Prerequisites for graduate students: EDCI 6800. A study of the skills of reading and of methods, materials, and practices which contribute to the effective teaching of reading the subject matter of content areas.

EDCI 4540            Classroom Management            3 cr.

This course teaches how to create and maintain psychologically and physically safe and challenging environments that foster development, learning, and democratic life skills among groups of children in grades pre-k to 5. A field component is required for this course.

EDCI 4545            Development of Logico-Mathematical Knowledge            3 cr.

Prerequisite for undergraduate students: EDCI 4500; Prerequisite for graduate students: EDCI 6500. This course teaches early childhood and elementary education majors theories and principles related to the development of early math literacy skills in young children, methods and materials for promoting early math literacy, and techniques for integrating early math literacy concepts into themes, projects, play and other learning experiences. Field experiences are a required component of this course.

EDCI 4595            Practicum in Early Childhood Education            3 cr.

Prerequisite: EDCI 4510 and EDCI 4540. Supervised experiences in a variety of nursery school and kindergarten situations.

EDCI 4605            Trends and Issues in Curriculum and Instruction            3 cr.

A systematic analysis and overview of the major trends and issues in curriculum and instruction

EDCI 4620            Curriculum and Instruction for Multicultural Education            3 cr.

Analysis of principles of multicultural education as applied to curriculum and instruction. Designed to increase students' awareness and knowledge of cultural integrity and cultural diversity and to familiarize students with school programs, strategies, and materials for developing and implementing a multicultural curriculum.

EDCI 4660            Global Education

3 cr.

Prerequisite: consent of department. Introduction to global education with an emphasis on both the development of a global perspective and the development of instructional ideas and strategies designed to integrate global education into the school curriculum.

EDCI 4741	Teaching of Secondary School Mathematics	5 cr.
Prerequisites: Concurrent enrollment in EDUC 4700. Methods of teaching for secondary school mathematics students (grades 6-12). This is the Summer course in the Teach Greater New Orleans (TGNO) Practitioner Teacher Program. Offered for graduate credit only.		
EDCI 4751	Introduction to Secondary Science Teaching	5 cr.
Prerequisites: Concurrent enrollment in EDUC 4700. Effective science teaching methods in secondary education. This is the Summer course in the Teach Greater New Orleans (TGNO) Practitioner Teacher Program. Offered for graduate credit only.		
EDCI 4991	Special Topics in Curriculum and Instruction	1 min. cr. - 3 max. cr.
Prerequisite: consent of department. The content of the courses will be varied from semester to semester. These courses may be repeated but total credit may not exceed six semester hours in any degree program. Section number will correspond with credit to be earned.		
EDCI 4993	Special Topics in Curriculum and Instruction	1 min. cr. - 3 max. cr.
Prerequisite: consent of department. The content of the courses will be varied from semester to semester. These courses may be repeated but total credit may not exceed six semester hours in any degree program. Section number will correspond with credit to be earned.		
EDCI 5140	Strategies for Teaching of Elementary School Mathematics	3 cr.
This course provides teaching strategies, methods, and instructional materials for elementary school mathematics instruction. Twenty hours of field-based experiences are included in this course.		
EDCI 5220	Materials and Methods in Secondary School English	3 cr.
Prerequisites for undergraduate students: Admission to the Teacher Education Program and concurrent enrollment in EDCI 4201; Prerequisites for graduate students: EDCI 6800. This course is designed to develop competencies in planning, conducting, and evaluating instruction in English. Appropriate field experiences may be required.		
EDCI 5240	Secondary Math Methods	3 cr.
Prerequisites for undergraduate students: Admission to the Teacher Education Program and concurrent enrollment in EDCI 4201; Prerequisites for graduate students: EDCI 6800, EDSP 5020, EDUC 5100, or EDUC 5200. This course will focus on the teaching of 6-12 grade mathematics through multiple representations that include manipulatives and technology. The building and manipulation of representations of two and three-dimensional objects as well as the visualization of objects from different perspectives using dynamic technological software are also explored. Fieldwork will be required as part of this course.		
EDCI 5250	Materials and Methods in Secondary School Science	3 cr.
Prerequisites for undergraduate students: Admission to the Teacher Education Program and concurrent enrollment in EDCI 4201; Prerequisites for graduate students: EDCI 6800, EDSP 5020, EDUC 5100, or EDUC 5200. This course is designed to provide experiences with programs and instructional strategies oriented toward the teaching of biological and physical science by inquiry. Appropriate field experiences are required.		
EDCI 5260	Methods and Materials of Secondary Social Studies	3 cr.
Prerequisites for undergraduate students: Admission to the Teacher Education Program and concurrent enrollment in EDCI 4201; Prerequisites for graduate students: EDCI 6800, EDSP 5020, EDUC 5100, or EDUC 5200. This course will provide future social studies teachers the opportunity to examine the role of social studies in the modern secondary curriculum. This examination will include the nature of the disciplines which comprise social studies and their connectedness. Students will also investigate the challenges inherent in teaching social studies and prepare strategies for teaching the various courses in the social studies curriculum at the secondary level. This class will also look at current scholarship in the social studies with an emphasis on best practice in methods and materials.		
EDCI 5400	Foundations of Literacy Development	3 cr.
This course examines theories of literacy development and provides an introduction to various current approaches to literacy instruction, with an emphasis on strategies drawn from empirical research regarding literacy learning and teaching from birth through adulthood.		

- EDCI 5421 Linguistic Applications in Reading-Language Arts 3 cr.  
Designed to provide teachers of the English language arts with a basic understanding of linguistics in order to help them improve their capacity for making decisions about instruction.
- EDCI 5423 Teaching Reading-Language Arts in a Multicultural Society 3 cr.  
Designed to provide the student with an understanding of language differences in a multicultural society and with a variety of programs designed for teaching students having language and cultural differences.
- EDCI 5425 Materials and Methods for Teaching English as a Second Language 3 cr.  
Intensive study of linguistic developments in second language acquisition and practices in teaching English to non-native speakers of the language.
- EDCI 5432 Teaching Reading in Content Areas 3 cr.  
Prerequisites for undergraduate students: Admission to the Teacher Education Program; Prerequisites for graduate students: EDCI 6800. A study of the skills of reading and of methods, materials, and practices which contribute to the effective teaching of reading the subject matter of content areas.
- EDCI 5540 Classroom Management 3 cr.  
This course teaches how to create and maintain psychologically and physically safe and challenging environments that foster development, learning, and democratic life skills among groups of children in grades pre-k to 5. A field component is required for this course.
- EDCI 5545 Development of Logico-Mathematical Knowledge 3 cr.  
Prerequisite for undergraduate students: EDCI 4500; Prerequisite for graduate students: EDCI 6500. This course teaches early childhood and elementary education majors theories and principles related to the development of early math literacy skills in young children, methods and materials for promoting early math literacy, and techniques for integrating early math literacy concepts into themes, projects, play and other learning experiences. Field experiences are a required component of this course.
- EDCI 5595 Practicum in Early Childhood Education 3 cr.  
Prerequisite: EDCI 4510 and EDCI 4540. Supervised experiences in a variety of nursery school and kindergarten situations.
- EDCI 5605 Trends and Issues in Curriculum and Instruction 3 cr.  
A systematic analysis and overview of the major trends and issues in curriculum and instruction
- EDCI 5620 Curriculum and Instruction for Multicultural Education 3 cr.  
Analysis of principles of multicultural education as applied to curriculum and instruction. Designed to increase students' awareness and knowledge of cultural integrity and cultural diversity and to familiarize students with school programs, strategies, and materials for developing and implementing a multicultural curriculum.
- EDCI 5660 Global Education 3 cr.  
Prerequisite: consent of department. Introduction to global education with an emphasis on both the development of a global perspective and the development of instructional ideas and strategies designed to integrate global education into the school curriculum.
- EDCI 5743 Integrating Technology in Secondary Mathematics Instruction 3 cr.  
Prerequisite: EDCI 4742; concurrent with EDUC 4702. This course focuses on the integration of technology into the teaching of middle and secondary school mathematics through the usage of dynamic geometry, computer algebra, electronic spreadsheets, data analysis, and the Internet. The applications of technology to real-world contexts of gathering data and estimating probabilities to make statistical inferences as well as the visualization of two- and three-dimensional objects from different perspectives are explored. Offered for graduate credit only.
- EDCI 5991 Special Topics in Curriculum and Instruction 1 min. cr. - 3 max. cr.  
Prerequisite: consent of department. The content of the courses will be varied from semester to semester. These courses may be repeated but total credit may not exceed six semester hours in any degree program. Section number will correspond with credit to be earned.

EDCI 5993	Special Topics in Curriculum and Instruction	1 min. cr. - 3 max. cr.
Prerequisite: consent of department. The content of the courses will be varied from semester to semester. These courses may be repeated but total credit may not exceed six semester hours in any degree program. Section number will correspond with credit to be earned.		
EDCI 6020	Writing Institute	3 min. cr. - 6 max. cr.
(EDCI 6020 and ENGL 6151 are cross-listed) Offered during the summer session only. An invitational workshop designed for teachers interested in improving writing, theirs and their students'. An intensive exploration of the research and practice in the field. Section number will correspond with credit to be earned.		
EDCI 6060	Advanced Applied Behavior Analysis	3 cr.
Prerequisite: EDSP 4060 or consent of the department. Study of applied behavior analysis and single subject research designs to implement educational and habilitative programs in applied settings. Two hours of lecture and two hours of laboratory.		
EDCI 6220	Studies in the Teaching of English in Secondary Schools	3 cr.
Prerequisite: EDCI 5220. Designed to assist teachers in developing instructional strategies related to the secondary English program		
EDCI 6240	Studies in the Teaching of Mathematics in Secondary Schools	3 cr.
Prerequisite: EDCI 5240. Designed to assist teachers in developing instructional strategies related to the secondary school mathematics program.		
EDCI 6250	Studies in the Teaching of Science in Secondary Schools	3 cr.
Prerequisite: EDCI 5250. An examination of recent trends, methods, issues, and research in middle/secondary school science instruction.		
EDCI 6260	Studies in the Teaching of Social Studies in Secondary Schools	3 cr.
Prerequisite: EDCI 5260. An examination of recent trends, methods, problems, and literature in social studies instruction.		
EDCI 6300	Developmentally Responsive Curriculum & Instruction for Young Adolescents	3 cr.
This course will introduce teacher candidates to the developmental characteristics of young adolescents, social factors influencing their development, and developmentally responsive curriculum and instructional strategies. This course requires a field experience component.		
EDCI 6390	Practicum in Adult Learning	3 cr.
(EDCI 6390 and EDAD 6390 are cross-listed) Prerequisites: EDCI/EDAD 6310, 6320 and completion of or concurrent enrollment in EDCI/EDAD6370 or consent of the department. Application of various learning theories in actual teaching/learning situations.		
EDCI 6410	Early Literacy Development	3 cr.
Prerequisites: EDCI 4400/4400G This course provides an examination of early literacy development and instruction. It introduces teacher candidates to varied approaches to early literacy instruction with an emphasis on strategies drawn from empirical research regarding literacy learning and teaching. Field experiences are a required component of this course.		
EDCI 6430	Information Literacy Instruction for Content Learning	3 cr.
Prerequisites: EDCI 4440G. An examination of literacy instruction for children in grades PK-8 in self-contained and departmentalized classroom settings with applications in field settings. Topics include principles of literacy development in upper elementary grades, reading and writing in content areas, assessment of literacy development, materials and methods appropriate for literacy instruction in the middle grades, and planning and organizing for instruction in PK-8 classrooms. Field experiences are a required component of this course.		
EDCI 6434	Developmental Reading	3 cr.
A comprehensive treatment of methods, materials, principles, and practices of devising an effective		

	developmental reading program, with emphasis on studies, research, and experimentation.	
EDCI 6436	Diagnostic and Remedial Reading	3 cr.
	Prerequisite: EDCI 4400G or 6434. Study of diagnostic and remedial techniques in reading. Practicum.	
EDCI 6438	Clinical Diagnosis of Reading Problems	3 cr.
	Prerequisites: EDCI 6434 and 6436 or consent of department. A course designed for the reading specialist to develop the skills of diagnosing severe reading problems with emphasis on individual diagnostic testing.	
EDCI 6460	Psychology Of Reading	3 cr.
	Prerequisite: EDCI 4400G or 6434 or consent of the department. Explorations in the psychological processes involved in reading and learning to read.	
EDCI 6490	Seminar in Reading-Language Arts	3 cr.
	Prerequisite: EDCI 6436 or consent of department. Explorations in recent trends and problems in specific areas of research and practice in reading and language arts. The topic will vary with the instructor. May be taken for graduate credit more than once.	
EDCI 6493	Practicum in Diagnostic and Remedial Reading	3 cr.
	Prerequisite: EDCI 6436. A course designed for the practice of diagnosing and remediating reading disability.	
EDCI 6500	Foundations of Child Development	3 cr.
	A study of child development from birth through eleven years of age for teachers working in preschools and grades K-5. Field experiences are a required component of this course.	
EDCI 6510	Advanced Curriculum Design in Early Childhood Education	3 cr.
	Prerequisite: EDCI 6500, 4500G or 4500 . An analysis and application of techniques, planning and evaluative procedures in developing curricula for the preschool and kindergarten	
EDCI 6520	Contemporary Approaches in Early Childhood Education	3 cr.
	Prerequisite: EDCI 4595 or consent of department. A critical analysis of the conceptual framework and implementation of contemporary programs in Early Childhood Education and their influences in preschool and kindergarten education.	
EDCI 6530	Survey of Measurement in Grades PK-5	3 cr.
	Prerequisite: EDCI 6500. This course surveys instruments which measure children's growth across the affective, cognitive, and psychomotor domains. Field work is a required component of this course.	
EDCI 6540	Study of Programs in Early Childhood Education	3 cr.
	Prerequisites: EDCI 6510 and 6520 or consent of department. This course will examine the evolution of the early childhood profession including historical events, people and trends from past to present. Students will explore the impact of current early childhood program such as state and federally supported preschools, parochial preschools, employer-supported child care, and the day care industry, through observation and extensive readings.	
EDCI 6550	Effective Parenting and Understanding Child Behavior	3 cr.
	Analysis of the nature and process of parent-child interaction through the child-rearing years of infancy and childhood.	
EDCI 6560	The Role of Play in the Development and Learning of Young Children	3 cr.
	The study of the role play in the development and learning of young children. Subtopics include the meaning of play in diverse cultures, the research basis for including play in the early childhood curriculum, techniques for the facilitation of play activities in early childhood programs, and strategies helpful in the advocacy for play among colleagues, administrators, and curriculum designers.	
EDCI 6590	Seminar: Current Issues and Trends in Early Childhood Education	3 cr.
	Explorations of recent trends and issues in specific areas of research and practice in early childhood education. The topic will vary with the instructor. May be taken for graduate credit more than once.	
EDCI 6600	Foundations of Curriculum Development	3

cr.

A critical analysis of the fundamental principles and practices underlying curriculum development

EDCI 6610 Elementary School Curriculum

3 cr.

Prerequisite: EDCI 6500. A study of the critical issues in the elementary school curriculum and of desirable instructional practices in the major areas of instruction.

EDCI 6620 Secondary School Curriculum

3 cr.

The study and critical evaluation of various designs of the curriculum as they apply to general and specialized education, including content and subject matter areas. There is particular emphasis on course development.

EDCI 6658 College Curriculum 3

cr.

(EDCI 6658 and EDAD 6650 are cross listed) This course provides an over-view of the issues, principles, and practices associated with college curriculum development. Topics include the diversity of philosophical foundations for college curricula; perspectives and models of the college curriculum in higher education. The interaction of theory and practice is an important theme of the course.

EDCI 6675 Advanced Educational Program Evaluation 3 cr.

(EDFR 6675 and EDCI 6675 are cross-listed) Prerequisites EDCI 6670 and EDFR 6710 and 6711 or consent of department. This course is designed to provide students with the research and evaluation skills required to implement various program evaluation models. It is also intended to provide the skills necessary for effectively using the standards of the National Joint Committee on Standards for Program Evaluation as required by state certification guidelines.

EDCI 6710 Nonfiction Across the Curriculum 3 cr.

(EDCI 6710 and EDLS 6710 are cross-listed) A critical examination of nonfiction books used in schools. Focus is on standards for evaluation and curricular uses for informational and biographical works.

EDCI 6720 Teaching Information Literacy 3 cr.

(EDLS 6650 and EDCI 6720 are cross-listed) . Investigation of teaching strategies and instructional materials to implement the Louisiana Content Standards for information literacy in elementary and secondary schools, including the principles of critical thinking and problem-based learning. Designed to provide teachers of language arts, social studies, and sciences, and library media specialists with an understanding of the role and uses of information in the contemporary world.

EDCI 6755 Content Applications of Instructional Strategies 3 cr.

Over-view of instructional strategies as pertains to content areas and research on the effective teaching of content. Emphasis on lesson design implementation and assessment of content instruction and classroom management practices.

EDCI 6758 College Teaching 3 cr.

(EDCI 6758 AND EDAD 6640 are cross listed) This course provides an overview of the issues principles and practices associated with effective college teaching. Topics examined include learning and diversity; teaching models and strategies teacher and student behaviors and learning outcomes; and instructional improvement strategies. The interaction of theory and practice is an important theme of the course.

EDCI 6793 Graduate Special Topics in Curriculum and Instruction 3 cr.

The content of the course will be varied form semester to semester. This course may be repeated for a total of 6 hours.

EDCI 6800 Principles and Practices of Instruction and Assessment 3 cr.

This course covers a survey of principles of instruction and assessment for middle and secondary school classrooms, with an emphasis on the interaction of theory and practice. This course prepares teacher candidates to design and deliver instruction and evaluate student learning. Field experiences are a required component of this course.

EDCI 6900 Introductory Doctoral Readings in Curriculum and Instruction 3 cr.





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## Earth and Environmental Science

EES 1000      Dynamic  
Earth

3 cr.

Prerequisites: eligibility to enroll in ENGL 1157 or credit in English at the college level. A study of the structure and properties of materials composing the earth and processes which form and alter the crust including erosion igneous activity mountain building glaciation earthquakes and oceans. Credit in EES 1000 and/or 1001 and EES 1008 will not be allowed.

EES 1001      Dynamic Earth Lab

1 cr.

An introduction to working with geological materials. Distinction of rocks on the basis of physical properties and determination of how those properties can be used to predict behavior of various materials. Students are introduced to principles of mapping and geological laboratory and field observations. The course meets for three hours each week.

EES 1002      Introduction to Environmental  
Science

3 cr.

Prerequisite: eligibility to enroll in ENGL 1157. A survey of environmental science and policy issues, including ecology, engineering, geology, geography, law, economics, philosophy, and sociology.

EES 1003      Introduction to Environmental Sciences  
Laboratory

1 cr.

Prerequisites: The purpose of this course is to expose undergraduate students to research topics in the environmental sciences with an emphasis on local Louisiana issues. Students are assessed on the basis of a semester-long independent research project that includes the formulation of a research plan, the collection of data, analysis of these data, and a final oral presentation to the class. Students will be assessed a laboratory fee for enrollment in this course.

EES 1004      Earth and Environment Through  
Time

3 cr.

Offered each semester. Prerequisite: EES 1000. Evolutionary history of the earth including physical changes and an introduction to the record of life through time.

EES 1005      Earth and Environment Through Time  
Lab

1 cr.

Prerequisite: Credit for EES 1000. A survey of the rocks maps and fossils used to unravel the history of earth and life. The course meets for three hours each week. Offered each semester.

EES 1006  
Dinosaurs

3 cr.

Prerequisite: eligibility for ENGL 1157. A lecture survey of dinosaurs and other extinct reptiles the theories about their life habits and evolution. Three hours of lecture a week.

EES 1008      Geology of New Orleans and

Louisiana	4 cr.
Prerequisites: eligibility to enroll in ENGL 1157 or credit in English at the college level. A study of the influence of geological materials and processes on the founding development and future of New Orleans and environs. Lecture and laboratory are integrated. Credit for both EES 1000 and/or EES 1001 and EES 1008 will not be allowed. EES 1008 may be used along with EES 1004 and 1005 to fulfill the 8-cr hour science general degree requirement.	
EES 2000	Methods in Earth and Environmental Sciences 4 cr.
Prerequisites: EES 1002, 1003, 1004, 1005 or consent of instructor in lieu of one of the identified lecture and laboratory sequences. This course is designed to introduce students to the approaches and instrumentation used in the field by earth and environmental scientists to conduct their research. Course emphasizes the interpretation of maps and aerial photographs, the construction of geologic cross-sections, the measurement of geologic sections, the use of position locating systems and field instruments such as compasses, seismic systems and side-scan sonar. Consists of lecture and laboratory each week with excursions to collect data in the field, mapping assignments, time to work with instrumentation and data collection and interpretation.	
EES 2050	Surficial Processes 3 cr.
Prerequisites: EES 2010, MATH 1112. Study of earth surface processes involved in sediment deposition and landform development. Process mechanics and environmental response to climatic change and tectonic events are emphasized. Two hours of lecture and three hours of laboratory.	
EES 2051	Geomorphology 3 cr.
Prerequisites: EES 1005 or consent of department. Focuses on the processes operating at the surface of the earth that result in the degradation of existing rock masses and the movement of material across the surface of the earth to other locations, and the landforms resulting from these processes.	
EES 2096	Special Topics in Geology 1 min. cr. - 3 max. cr.
Prerequisite: consent of department. A lecture lecture-laboratory or seminar format will be used to discuss special topics in geology. The course content will vary from semester to semester. May be repeated for credit.	
EES 2097	Independent Studies 1 min. cr. - 3 max. cr.
Prerequisite: consent of department. Independent research projects or directed readings designed to meet the needs and interests of individual students. Regular conferences between students and instructor are required. May be repeated for credit.	
EES 2105	Environmental Toxicology 3 cr.
Prerequisite: For undergraduate students with sophomore standing. Environmental Toxicology is the study of the impacts of pollutants upon the structure and function of ecological systems. This course is a beginning level discussion of the basic concepts of toxicology as it relates to the impacts of pollutants on the environment. Basic categories of pollutants are discussed along with their effects on animals and man and their environment. Presentation of sentinel exposures resulting in damage to both wildlife and humans are included. Practical and current topics in toxicology will be integrated into the scientific discussions. Discussions of environmental legislation pertinent to this area are included.	
EES 2510	Environmental Science Policy 3 cr.
An introduction to the role of science in environmental policy making and policy analysis. Emphasis will be on understanding basic policy mechanisms, major policy actions related to environmental and resource issues, and limits of science in policy making. The approach of the course will be to focus on current environmental problems and case histories. Through hands-on analysis students will develop an appreciation for the complex causes of environmental problems and how viable solutions can be formulated.	
EES 2700	Earth Materials 4 cr.

Prerequisite: EES 1000. The class provides an introduction to rock forming minerals and a survey of petrological classifications of rocks with an emphasis on hand sample identification, field identification methods, and petrogenesis of rocks. The formation of soils and soil chemistry is also introduced. Course consists of lecture and laboratory.

EES 2740 Principles of Paleontology 3 cr.

Fall semester. Prerequisites: EES 1004 and 1005, and credit or enrollment in BIOS 1071 and 1073. Study of ancient life as a geological and biological science. Lab will concentrate on invertebrates will also cover vertebrates and plants. Two hours of lecture three hours of laboratory and required field trip.

EES 3000 Ecosystem Analyses 3 cr.

Prerequisites: EES 1000, 1001, 1002, 1003; BIOS 1071, 1073; MATH 1126. Undergraduate course covering basic techniques in the collection and analysis of environmental data and the management of ecosystem databases. Lectures on managing ecological data and communicating results to natural resource managers. Students will be instructed in the use of software products for storing and analyzing environmental data and will be given real data sets to conduct independent research projects.

EES 3091 Independent Studies in Earth and Env Science 1 min. cr. - 3 max. cr.

Prerequisite: Consent of department. Directed readings, research, or applications designed to meet the needs and interests of individual students. Conferences between the student and a supervising instructor are required. May be repeated for credit.

EES 3096 Special Topics - Earth and Environmental Science 1 min. cr. - 3 max. cr.

Prerequisite: Consent of department. A lecture, field, and/or seminar format will be used to present special topics in the field of environmental science and policy. Content will vary from semester to semester. May be repeated for credit.

EES 3100 Analysis of Earth Structure 3 cr.

Prerequisites: EES 1005, 2051 and 2700 or consent of the department. Description and geometric analysis of earth structures (faults folds and structural fabrics). Overview of worldwide observations of typical earth structures and structural association as well as theories for the origin of geologic structures. Includes practical exercises in construction of geologic maps and cross-sections graphical as well as trigometric solution of geometric problems and analysis of structural symmetry. One hour of lecture and 3 hours of laboratory per week.

EES 3120 Introduction to Coastal Restoration 3 cr.

Introduces students to the various methods used in coastal restoration; structured according to the environmental setting.

EES 3310 Ign Met Sed Petrology 3 cr.

Prerequisites: EES 2700; Undergraduate course that introduces students to optical mineralogy and the study of the three principal rock groups in hand specimen and under the petrographic microscope. The course provides an overview of the principles of rock description, identification, classification, and up-to-date coverage of the petrogenesis of igneous, metamorphic and sedimentary rocks.

EES 3400 Introduction to Petroleum Geology 3 cr.

Prerequisites: EES 2700, 3100. Introduces students to the geologic principles required in the exploration and recovery of hydrocarbons from subsurface reservoirs. Students will gain an understanding of where hydrocarbons are typically trapped in the subsurface, how they form and migrate, and the methods required to develop a hydrocarbon play that is economically viable.

EES 3700 Geological Time 3 cr.



Prerequisite: Department consent required. This course discusses the interconnections between ecologic health and human health and includes the areas of immunotoxicology, reproductive toxicology, carcinogenesis, genotoxicology, bioaccumulation, and bioavailability. Presentation of sentinel accidental exposures resulting in both wildlife and human effects are included. Discussions of environmental legislation pertinent to this area include the Federal Insecticide, Fungicide, and Rodenticide Act, Toxic Substances Control Act, The Clean Water Act, and the Organization for Economic Cooperation and Development, and the National Environmental Policy Act.

EES 4110 Introduction to Geophysics  
3 cr.

Spring semester. Prerequisites: EES 3100, and PHYS 1063. A study of the fundamental methods of geophysics. Emphasis is placed on seismic gravity and magnetic methods and their use in geophysical exploration. Two hours of lecture and three hours of laboratory.

EES 4115 Toxicology and Human Health 3 cr.

Prerequisite: Department consent required. This course provides the basic principles of toxicology with applications to the impact of toxic agents on human health. Toxic agents discussed include pesticides, metals, solvents, radiation, and radioactive materials, terrestrial and marine animal venoms and poisons, plants and mycotoxins.

EES 4120 Gravity and Magnetism 3 cr.

(EES 4120 and PHYS 4507 are cross-listed) Prerequisites: EES 4110, PHYS 3301 or PHYS 4501 and MATH 2221. Fundamentals of scalar potentials and analysis of vector fields as applied to geophysical problems in gravity and magnetism. Analytic properties of the earth's gravitational and magnetic fields in space and time. Modeling and interpretation of gravity and magnetic anomalies.

EES 4125 Toxicology of Metals 3 cr.

Prerequisite: EES 4115 or consent of Department. This course discusses the broad and multidisciplinary science of metal toxicology. Mechanisms of action, metal-metal interactions, carcinogenicity and genotoxicity of selected heavy, trace, and essential metals will be included. Metabolism, distribution, elimination, health effects, and biological monitoring will also be discussed and target organ toxicity will be addressed.

EES 4130 Exploration Seismology 3 cr.

Prerequisites: MATH 2109 or 2112 or 2124; PHYS 1061; EES 3110, 3700, and 2050. Application of physical principles to naturally deformed rocks and overview of modern structural geology. Quantitative applications to solve geologic problems practical exercises in rock mechanics determination of finite strain advanced cross-section construction techniques and methods of kinematic analysis. Three hours of lecture per week.

EES 4150 Geophysical Field Methods 2 cr.

Prerequisite: EES 3110, 3700, 2050, and EES 4110 or permission of department. Introduction to basic acquisition of geophysical data in the field. Collection processing and interpretation of gravity and magnetic data as well as seismic reflection and refraction data. A fee will be assessed for transportation materials insurance room and board. The course will include fourteen days of field work.

EES 4152 Applied Seismic Data Acquisition and Processing 3 cr.

(PHYS 4381 and EES 4152 are cross-listed) Prerequisites: PHYS 4205, EES 4110 and MATH 2221. Basic acoustics and ray tracing; seismic data acquisition; CDP; noise analyses and arrays; physics of acoustic sources, measuring and recording instruments; demultiplexing; NMO and velocity analysis; statics; and introduction to deconvolution, filtering, and migration. Use of fundamental seismic data processing computer programs, graphics, and displays of seismic data; seismic data processing of field data. Two hours of lecture and two hours of computer laboratory per week.

EES 4160 Seismic Stratigraphy 2 cr.

Prerequisite: EES 4110 or consent of department. Interpretation of stratigraphy from seismic records. Analysis of unconformities environments of deposition and local and world-wide sea level curves. Two hours of lecture/discussion.

EES 4161 Gulf Coast Geology 3 cr.

Fall semester. Prerequisites: EES 3110, 3700, 2050, or consent of department. Geology of the Gulf Coastal Plain and Gulf Basin including physiography stratigraphy structure and economic geology.

EES 4165 Geophysical Exploration and Interpretation 3 cr.

Prerequisites: EES 3100 and PHYS 1062 or consent of department. A study of the fundamental methods of geophysical exploration and interpretation. To include geophysical principles of gravity magnetics and seismology in order to make better geological interpretation of geophysical data.

EES 4520 Estuarine Environmental Science 4 cr.

Prerequisites: EES 1000, 1001, 1002, 1003; BIOS 1073, 1071; MATH 1126; This course introduces the key ecological processes and topics in estuarine environments. Topics such as plankton systems, marshes, submersed aquatic macrophytes, mangroves, benthos, and nekton, with special emphasis on human impact and management, global change issues, and the use of modeling as a research tool will be covered. Course consists of lecture and laboratory. Students will be required to spend time outside of designated laboratory hours to complete assignments and collect additional data. Using southeastern Louisiana as a classroom, students will be brought into the field on a weekly basis to observe actual environmental impacts of the local estuarine systems. Relevant topics covered will include measuring the effects of recent hurricanes, river diversions, hurricane protection activity, habitat restoration efforts, and oil spills on local estuarine organisms. Students will conduct their own research projects on these subjects and present results at the end of the semester.

EES 4550 Coastal Geomorphology 3 cr.

Prerequisite: EES 2051 or Consent of department. The study of the geomorphology of land forms and the processes that shape them. This course surveys the coasts of the world and the challenges they present to our society. Topics range from tectonic classification of coasts to sea level history, coastal processes, coastal land forms, and environmental coastal issues. A fee will be assessed to cover transportation and supplies.

EES 4560 Environmental Geology of Coastal Louisiana 3 cr.

Prerequisite: consent of department. This course investigates the Holocene evolution of south Louisiana and the environmental issues found in this coastal zone. Topics addressed include the modern development of the Mississippi River delta and chenier plains, flood and diversion control, coastal land loss, hurricanes, environmental quality, and coastal restoration. A fee may be assessed to cover transportation and supplies.

EES 4711 Introductory X-Ray Crystallography 2 cr.

Prerequisites: EES 2700, MATH 2109 or 2112 or 2124, CHEM 1018, and consent of department. Introduction to the theory and techniques of X-ray analysis of crystalline materials. One hour of lecture and three hours of laboratory.

EES 4720 Global Tectonics 3 cr.

Prerequisites: EES 3110, 3700, and 2050; MATH 2112 or 2109 or 2124; EES 4110 or 4145 recommended; or consent of the department. Overview of plate tectonic principles with specific geologic applications. Geophysical characteristics of plate margins descriptions of plate motions and plate reconstructions. Geological characteristics of plate margins tectonic analysis of ancient plate margins and theories on the plate tectonic driving mechanism. Two hours of lecture and three hours of laboratory.

EES 4730 Environmental Geochemistry 3 cr.

Prerequisites: CHEM 1018 or 1011 and CHEM 2217 or consent of department. Chemical reactivities of common inorganic and organic pollutants are presented for different natural environments. The chemistry of methods used to neutralize and/or remove these pollutants from the environment are discussed. Three hours of lecture.

EES 4735 Hydrogeology 3 cr.

Prerequisites: EES 2051 and MATH 1125 or higher or consent of department. A study of the fundamentals of ground water: geologic occurrence exploration and physical properties. Focuses on the subsurface distribution and movement of water in geologic materials. Three hours lecture per week.

EES 4750 Principles of Stratigraphy 4 cr.

Prerequisites: EES 1000, 1001, 1004, 1005 and 2700 or consent of department. An introduction to the principles of stratigraphic analysis and correlation of sedimentary rocks. Provides an overview of depositional systems and stratigraphic successions in different tectonic domains. Includes practical exercises in the interpretation of depositional systems, construction of stratigraphic cross sections, construction of isopach and structural contour maps and interpretation of seismic reflection profiles. Two hours of lecture and two hours of laboratory per week with oral and written assignments. One afternoon field trip and a week-long field trip to the central/southern Appalachians are required. A field trip fee will be assessed to cover transportation and other field trip related costs.

EES 4800 Advanced Stratigraphy 3 cr.

Prerequisite: EES 4750 or consent of department. An introduction to advanced theoretical and applied methods used to examine, decipher, and utilize the stratigraphic record to determine depositional basin history and the distribution of natural resources. Subjects to be addressed include: the record of time strata, tectonics and sedimentation, sequence stratigraphy, stratigraphic cyclicity, biostratigraphy, relative and eustatic sea-level change and other mechanisms that drive the evolution of depositional systems.

EES 4840 Structural Geology 3 cr.

Prerequisites: MATH 2109 or 2112 or 2124; PHYS 1061; EES 3110, 3700, and 2050. Application of physical principles to naturally deformed rocks and overview of modern structural geology. Quantitative applications to solve geologic problems practical exercises in rock mechanics determination of finite strain advanced cross-section construction techniques and methods of kinematic analysis. Three hours of lecture per week.

EES 4900 Coastal Processes 3 cr.

Prerequisites: EES 2051 and MATH 1125 or higher, or consent of department. This course focuses on the physical processes operating in the coastal marine environment. Key elements include wave transformation processes, coastal level fluctuations, and coastal morphodynamics. The course will also emphasize on presenting modeling tools available for the study of such environments. Graduate students in this course will be responsible to complete additional work during the regular semester as well as a final project for the class.

EES 4925 Introduction to Physical Oceanography 3 cr.

Prerequisite: Department consent required. The main objective of the class is to provide an overview and a systematic coverage of the fundamentals of physical oceanography. The topic will be explored in both a descriptive as well as a quantitative nature. The students will be introduced to oceanic circulation, thermohaline circulation, wind driven circulation, physical properties of the ocean, and governing forces that drive ocean circulation. The class will also cover fundamental topics in coastal oceanography, and introduce tidal currents and other processes governing transport in coastal oceans. Students will also be responsible for a term project centered on themes introduced in the class and will have to write a 4500 words journal-style paper and present their results to the class. Graduate students enrolled in this course will also be responsible for more elaborate homework assignments with quantitative analysis.

EES 4949 Natural Resource Management 3 cr.

Prerequisites: EES 1000, 1001, 1002, 1003; BIOS 1073, 1071; MATH 2107 or 2111 or 2114; or consent of department. This interdisciplinary course will instruct junior and senior level undergraduate students in the importance of understanding the effectiveness of using ecological policies for addressing global problems with natural resource management. With an emphasis on Louisiana's own ecosystems, students will survey numerous examples of how ecologically-based methods have repeatedly been used to restore and improve both aquatic and terrestrial natural resources for commercial and recreational use.

EES 5000 Statistical Methods in Earth and Env Sciences 3 cr.

Prerequisites: MATH 1125 or higher. Working knowledge of EXCEL is recommended. Analysis of quantitative geological data emphasizing computer-based procedures.

EES 5091 Independent Study 1 min. cr. - 3 max. cr.



EES 5160	Seismic Stratigraphy	2 cr.
Prerequisite: EES 4110 or consent of department. Interpretation of stratigraphy from seismic records. Analysis of unconformities environments of deposition and local and world-wide sea level curves. Two hours of lecture/discussion.		
EES 5161	Gulf Coast Geology	3 cr.
Fall semester. Prerequisites: EES 3110, 3700, 2050, or consent of department. Geology of the Gulf Coastal Plain and Gulf Basin including physiography stratigraphy structure and economic geology.		
EES 5165	Geophysical Exploration and Interpretation	3 cr.
Prerequisites: EES 3100 and PHYS 1062 or consent of department. A study of the fundamental methods of geophysical exploration and interpretation. To include geophysical principles of gravity magnetics and seismology in order to make better geological interpretation of geophysical data.		
EES 5520	Estuarine Environmental Science	4 cr.
Prerequisites: EES 1000, 1001, 1002, 1003; BIOS 1073, 1071; MATH 1126; This course introduces the key ecological processes and topics in estuarine environments. Topics such as plankton systems, marshes, submersed aquatic macrophytes, mangroves, benthos, and nekton , with special emphasis on human impact and management, global change issues, and the use of modeling as a research tool will be covered. Course consists of lecture and laboratory. Students will be required to spend time outside of designated laboratory hours to complete assignments and collect additional data. Using southeastern Louisiana as a classroom, students will be brought into the field on a weekly basis to observe actual environmental impacts of the local estuarine systems. Relevant topics covered will include measuring the effects of recent hurricanes, river diversions, hurricane protection activity, habitat restoration efforts, and oil spills on local estuarine organisms. Students will conduct their own research projects on these subjects and present results at the end of the semester.		
EES 5550	Coastal Geomorphology	3 cr.
Prerequisite: EES 2051 or Consent of department. The study of the geomorphology of land forms and the processes that shape them. This course surveys the coasts of the world and the challenges they present to our society. Topics range from tectonic classification of coasts to sea level history, coastal processes, coastal land forms, and environmental coastal issues. A fee will be assessed to cover transportation and supplies.		
EES 5560	Environmental Geology of Coastal Louisiana	3 cr.
Prerequisite: consent of department. This course investigates the Holocene evolution of south Louisiana and the environmental issues found in this coastal zone. Topics addressed include the modern development of the Mississippi River delta and chenier plains, flood and diversion control, coastal land loss, hurricanes, environmental quality, and coastal restoration. A fee may be assessed to cover transportation and supplies.		
EES 5711	Introductory X-Ray Crystallography	2 cr.
Prerequisites: EES 2700, MATH 2109 or 2112 or 2124, CHEM 1018, and consent of department. Introduction to the theory and techniques of X-ray analysis of crystalline materials. One hour of lecture and three hours of laboratory.		
EES 5720	Global Tectonics	3 cr.
Prerequisites: EES 3110, 3700, and 2050; MATH 2112 or 2109 or 2124; EES 4110 or 4145 recommended; or consent of the department. Overview of plate tectonic principles with specific geologic applications. Geophysical characteristics of plate margins descriptions of plate motions and plate reconstructions. Geological characteristics of plate margins tectonic analysis of ancient plate margins and theories on the plate tectonic driving mechanism. Two hours of lecture and three hours of laboratory.		
EES 5730	Environmental Geochemistry	3 cr.
Prerequisites: CHEM 1018 or 1011 and CHEM 2217 or consent of department. Chemical reactivities of common inorganic and organic pollutants are presented for different natural environments. The chemistry of methods used to neutralize and/or remove these pollutants from the environment are discussed. Three hours of lecture.		
EES 5735	Hydrogeology	3 cr.
Prerequisites: EES 2051 and MATH 1125 or higher or consent of department. A study of the fundamentals of ground water: geologic occurrence exploration and physical properties. Focuses on the subsurface distribution and movement of water in geologic materials. Three hours lecture per week.		

EES 5750	Principles of Stratigraphy	4 cr.
Prerequisites: EES 1000, 1001, 1004, 1005 and 2700 or consent of department. An introduction to the principles of stratigraphic analysis and correlation of sedimentary rocks. Provides an overview of depositional systems and stratigraphic successions in different tectonic domains. Includes practical exercises in the interpretation of depositional systems, construction of stratigraphic cross sections, construction of isopach and structural contour maps and interpretation of seismic reflection profiles. Two hours of lecture and two hours of laboratory per week with oral and written assignments. One afternoon field trip and a week-long field trip to the central/southern Appalachians are required. A field trip fee will be assessed to cover transportation and other field trip related costs.		
EES 5800	Advanced Stratigraphy	3 cr.
Prerequisite: EES 4750 or consent of department. An introduction to advanced theoretical and applied methods used to examine, decipher, and utilize the stratigraphic record to determine depositional basin history and the distribution of natural resources. Subjects to be addressed include: the record of time strata, tectonics and sedimentation, sequence stratigraphy, stratigraphic cyclicity, biostratigraphy, relative and eustatic sea-level change and other mechanisms that drive the evolution of depositional systems.		
EES 5840	Structural Geology	3 cr.
Prerequisites: MATH 2109 or 2112 or 2124; PHYS 1061; EES 3110, 3700, and 2050. Application of physical principles to naturally deformed rocks and overview of modern structural geology. Quantitative applications to solve geologic problems practical exercises in rock mechanics determination of finite strain advanced cross-section construction techniques and methods of kinematic analysis. Three hours of lecture per week.		
EES 5900	Coastal Processes	3 cr.
Prerequisites: EES 2051 and MATH 1125 or higher, or consent of department. This course focuses on the physical processes operating in the coastal marine environment. Key elements include wave transformation processes, coastal level fluctuations, and coastal morphodynamics. The course will also emphasize on presenting modeling tools available for the study of such environments. Graduate students in this course will be responsible to complete additional work during the regular semester as well as a final project for the class.		
EES 5925	Intro to Physical Oceanography	3 cr.
Prerequisite: Department consent required. The main objective of the class is to provide an overview and a systematic coverage of the fundamentals of physical oceanography. The topic will be explored in both a descriptive as well as a quantitative nature, covering the following topics: oceanic circulation, thermo-haline circulation, wind driven circulation, physical properties of the ocean, and governing forces that drive ocean circulation, coastal oceanography, and other processes governing transport in coastal oceans. Students will also be responsible for a term project centered on themes introduced in the class and will have to write a 4500 words journal-style paper and present their results to the class.		
EES 5949	Natural Resource Management	3 cr.
Prerequisites: EES 1000, 1001, 1002, 1003; BIOS 1073, 1071; MATH 2107 or 2111 or 2114; or consent of department. This interdisciplinary course will instruct junior and senior level undergraduate students in the importance of understanding the effectiveness of using ecological policies for addressing global problems with natural resource management. With and emphasis on Louisiana's own ecosystems, students will survey numerous examples of how ecologically-based methods have repeatedly been used to restore and improve both aquatic and terrestrial natural resources for commercial and recreational use.		
EES 6015	Toxicology of Coastal Organisms	3 cr.
Prerequisite: Department consent required. This course discusses the significance of seabirds and fishes as bioindicators of coastal and marine pollution. Seabirds are often at the top of the food chain where they can be exposed to relatively high levels of contaminants in their prey. Aquatic animals are particularly vulnerable to environmental exposures arising from their living immersed in the exposure medium (surface water), having highly permeable skin and gills, and other inherent sensitivities. This course studies the vulnerability and susceptibility of seabirds and fish to environmental pollutants. Topics include the reproductive toxicity, neurotoxicity, behavioral abnormalities, developmental toxicity, and immunotoxicity of these two very important bioindicators.		
EES 6090	Graduate Seminar	1 cr.
Offered each semester. Students and faculty will discuss their research work on timely topics in geology. Required each semester for graduate students in geology. One credit each semester to a maximum of three credits. One		



EES 6840 Reflection Seismology 3 cr.  
 Prerequisites: EES 4130, CSCI 1060, MATH 2221, and PHYS 4205 or consent of department. Seismic velocity synthetic seismogram filtering convolution and deconvolution of seismic data; migration for the delineation of geological structures; and geophysical Inverse Theory for determining lithology.

EES 7000 Thesis Research 1 min. cr. - 9 max. cr.  
 Offered each semester. By arrangement with the graduate adviser. Three hours of laboratory work per credit hour. Section number will correspond with credit to be earned. To be repeated for credit until thesis is accepted.

EES 7040 Examination or Thesis Only 0 cr.  
 No credit. Open to students in a thesis program who have only (other than application for degree) the final typing and acceptance by the Graduate School of their thesis or dissertation or to students in a non-thesis program who have only (other than application for degree) to pass the final examination to complete graduation requirements.



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## Economics

ECON 1000      An Introduction to Current Economic Issues      3  
cr.

Offered each semester. An elementary study and analysis of current economic issues for both the beginning business and the non-business student. Introduces a minimum of economic concepts to allow the student to understand and to cope with national, international, regional, and/or local issues. The principal goal of the course is to attain a level of economic understanding sufficient for a citizen to analyze and evaluate economic issues. Not open to students enrolled in the College of Business Administration who have completed 30 semester hours (or more) of University credit.

ECON 1203      Principles of Microeconomics      3  
cr.

Offered each semester. Prerequisites: MATH 1115 or higher and placement in ENGL 1157 or higher. Credit will not be given for both ECON 1203 and 2200. An introduction to the principles of economics; the economics of the firm, including market demand and the costs of production; the market structures of American capitalism; the pricing of products and employment of resources including the determinants of wages, interest, rents, and profits.

ECON 1204      Principles of Macroeconomics      3  
cr.

Offered each semester. Prerequisite: prior or concurrent enrollment in ECON 1203. Credit will not be given for both ECON 1204 and 2200. An introduction to the theory of aggregate income, employment, and the price level; economic stabilization policies; economic growth and development; and international economics.

ECON 1273      Development of the Economic System in the United States      3 cr.  
Offered each semester. A study and an analysis of the major forces of the American economic system from colonial times to present times. Attention will be given to forces leading the United States into internationalism.

ECON 2000      Engineering Economics      3 cr.  
Offered each semester. (Not for credit toward a degree in business administration) Planning economic studies for decision making including considerations of rate of return, cost and yield studies, depreciation and tax relationships, increment costs, replacement, and introduction to multivariate alternative studies.

ECON 2200      Economic Principles      3 cr.  
Offered each semester. Credit will not be given for both ECON 2200 and 1203, 1204. (Not for credit in the College of Business Administration) This course is designed to give non-business students a comprehensive introduction to economic principles and problems. In addition to theoretical treatment of the price system, attention is given to current economic problems such as those relating to money and banking, labor, taxation, tariffs, and international trade.

ECON 2221      Money and Banking      3 cr.  
Offered each semester. Prerequisite: ECON 1203, 1204, or 2200. A survey of money, commercial banking, financial institutions, the Federal Reserve System, and the formulation and execution of monetary and economic stabilization policy.

ECON 3000	Managerial Economics	3 cr.
Prerequisite: ECON 1203. Particular concepts and corresponding analysis underlie managerial decisions and shape business strategies. This course deals with concepts rooted in economics and used in practical decisions made by business executives. In this way, the language and reasoning of executive decision making are developed. Emphasis is placed on language, concepts, and analysis embedded in current methods and techniques of executive and managerial decision making.		
ECON 3292	Internship in Business and Economics	3 cr.
Prerequisites: BA 2780 or equivalent, QMBE 2786 or equivalent, or consent of department. Student intern is engaged ten hours per week at the site of an assigned participating organization which directs the intern in a specific research project. Students wishing to take this course should apply a semester in advance since enrollment is limited by internships available.		
ECON 3999	Special Topics in Economics	3 cr.
Prerequisite: Consent of Department. Topic will vary from semester to semester. (May be repeated once for credit.) The course content and materials will vary depending upon the professor and course title. Enrollment as well as when it is to be offered will be contingent upon same.		
ECON 4250	Health Care Economics	3 cr.
An overview of the major economic considerations in the health care industry. Emphasis on economic theory and empirical analysis with applications to health care markets, health care institutions, physicians, health insurance, and government health care programs and regulations.		
ECON 4261	International Trade Theory	3 cr.
Prerequisite: ECON 1203 or 2200. An introduction to the classical and modern theories of international trade, international payments, and adjustment of international disequilibrium.		
ECON 4291	Undergraduate Directed Individual Study	3 cr.
(ECON 4291 and FIN 4391 are cross-listed) Offered each semester. Prerequisites: Approval of the directed individual study by the department chair and the supervising professor is required prior to registration. The student should refer to the College of Business Administration Policy On Undergraduate Directed Individual Study available in the Department of Economics and Finance. This course is arranged individually in order to provide latitude for specialized study and research under the direction of a faculty member. Progress reports, readings, conferences, and a research paper are required. May be repeated.		
ECON 4306	International Finance	3 cr.
(ECON 4306 and FIN 4306 are cross-listed) Prerequisite: ECON 1203 and 1204 or ECON 4400 and FIN 4400 or 3300. This course examines the financial operations of the firm from an international point of view. It draws upon topics such as exchange rate determination, foreign exchange exposures (risks) for the multinational firm and techniques to hedge such exposures, international bond, equity and currency markets, trade documentation, and international capital budgeting. This course will cover the following Candidate Body of Knowledge (CBOK) sections from the Chartered Financial Analyst CFA Program: CBOK Section III, J. International Finance. Students may not receive graduate credit for both ECON 4306, and FIN 6309.		
ECON 4400	Economic Foundations for Managers	3 cr.
Economic foundation needed for managerial decision making. Prepares students for graduate study in Business Administration. It deals with problems of scarcity and how choices made by individuals, businesses, and governments serve to address allocation questions that arise from scarcity. Not open to College of Business undergraduate majors or Liberal Arts economics majors. May not be taken for graduate credit. Students may not receive credit for both ECON 1203 and ECON 1204 and this course.		
ECON 5250	Health Care Economics	3 cr.
An overview of the major economic considerations in the health care industry. Emphasis on economic theory and empirical analysis with applications to health care markets, health care institutions, physicians, health insurance, and government health care programs and regulations.		
ECON 5261	International Trade Theory	3 cr.
Prerequisite: ECON 1203 or 2200. An introduction to the classical and modern theories of international trade, international payments, and adjustment of international disequilibrium.		

ECON 5306	International Finance	3 cr.
(ECON 4306 and FIN 4306 are cross-listed) Prerequisite: ECON 1203 and 1204 or ECON 4400 and FIN 4400 or 3300. This course examines the financial operations of the firm from an international point of view. It draws upon topics such as exchange rate determination, foreign exchange exposures (risks) for the multinational firm and techniques to hedge such exposures, international bond, equity and currency markets, trade documentation, and international capital budgeting. This course will cover the following Candidate Body of Knowledge (CBOK) sections from the Chartered Financial Analyst CFA Program: CBOK Section III, J. International Finance. Students may not receive graduate credit for both ECON 4306, and FIN 6309.		
ECON 6200	Managerial Economics	3 cr.
Prerequisite: Economics 4400 or ECON 1203. Economic concepts and analysis that underlie managerial decisions and shape business strategies. Topics include basic economic concepts of demand, supply, production, cost and profit along with applications to strategies dealing with productivity, cost and profit improvement; price determination; vertical and horizontal boundaries of businesses; competitive analysis; and competitive advantage.		
ECON 6203	Microeconomic Theory	3 cr.
Prerequisite: QMBE 6280, or consent of department. Analysis of pricing and distribution under perfect and imperfect market structures, social welfare concepts, and other current microeconomic topics.		
ECON 6204	Macroeconomic Theory	3 cr.
Prerequisite: QMBE 6280 or consent of department. Analysis of Keynesian and classical models with comparative statics. Permanent and transitory shocks. New classical macroeconomic issues including signal extraction, policy ineffectiveness, observational equivalence, and Lucas's critique. Overlapping generations models and multiple equilibria. Growth theory with comparative dynamics.		
ECON 6207	Seminar in Microeconomics	3 cr.
Prerequisite: ECON 6203. The course will use the models and concepts developed in ECON 6203 to examine the properties of general equilibrium in a market economy. Also the course will introduce state preference models and expose students to selected topics in production theory the economics of information and game theory.		
ECON 6209	Economics of Risk and Uncertainty	3 cr.
Prerequisites: ECON 6203. Methods used to introduce risk and uncertainty into various economic and financial models; analysis of behavior in individuals, firms and markets in risky situations.		
ECON 6220	International Monetary Economics	3 cr.
Topics include the balance of payments and adjustment mechanisms, exchange markets, international capital markets, macroeconomic policies in the open economy, and international reserves and liquidity. Special attention is given to the roles of asset markets and expectations in exchange rate determination and international macroeconomic policies.		
ECON 6292	Directed Individual Studies	3 cr.
Prerequisite: consent of department. This tutorial is arranged individually in order to provide latitude for specialized study and research. May be repeated for credit.		
ECON 6294	Internship in Economics	3 cr.
Prerequisite: 15 hours of MBA courses with at least a 3.0 GPA and consent of the department. The student will work a minimum of 150 hours during the semester at the site of a participating organization that directs the intern in a specific economic project. Students must in addition engage in extensive outside research in the subject area related to their internship and submit a substantial report on this research reflecting a graduate level of learning. Enrollment is limited. May not be repeated for credit.		
ECON 6295	Special Topics in Economics	1 min. cr. - 4 max. cr.
An intensive study of selected special topics in Economics. Topics will vary based on contemporary needs as dictated by the discipline as well as the interests of the students and the instructor. Section number will correspond with the number of credits to be earned. Course may be repeated up to 3 times as long as course content for each is different.		

ECON 7040	Examination or Thesis Only	0
cr. No credit. Open to students in a thesis program who have only (other than application for degree) the final typing and acceptance by the Graduate School of their thesis or dissertation or to students in a non-thesis program who have only (other than application for degree) to pass the final examination to complete graduation requirements.		
ECON 7050	Dissertation Research	1 min.
cr. - 9 max. cr. (ECON 7050 and FIN 7050 are cross-listed)Preparation of dissertation by Ph.D. candidate under direction of major professor and dissertation committee. Section number will correspond with credit to be earned. To be repeated for credit until dissertation is accepted.		
ECON 7051	Dissertation Workshop	1
cr. (ECON 7051 and FIN 7051 are cross-listed) Prerequisite: Consent of the department. This is a required course for all third year Ph. D. Students in Financial Economics. Students will present progress reports on their dissertation research for critique by faculty and other graduate students. Course may be repeated up to 5 times.		



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interaction of theory and practice is an important theme of the course.

EDAD 6675      Current Issues In Higher Education

3 cr.

This course examines current issues in American higher education and provides an overview of the current status of higher education in terms of individual and institutional trends. It focuses on recent developments in theory, research, policy and practice related to prominent contemporary issues; facilitates the critical analysis of such issues; and provides a forum in which the most recent issues can be synthesized in a manner that promotes a greater understanding of the dynamic interactions between research (methods and theory) and application (policy and practice).

EDAD 6681      Organization & Leadership in Higher Education

3

cr.

Prerequisite: admission to doctoral program in educational administration or consent of the department. This course requires students to use different analytical and critical approaches for understanding the complex manner in which American postsecondary education, primarily colleges and universities, are organized, governed, administered, and led. The purposes of the course involve providing an overview of organization including the forms, structures, roles, and functions of higher education and leadership theory including leadership roles, management principles and practices. Topics examined include classic organization theory, traditional administrative and governance models, campus climate and culture, leadership theory and analysis, management principles, institutional change and assessment, race and gender, and governance.

EDAD 6683      Students in Higher Education

3

cr.

An examination of the contemporary undergraduate college student in America. The topics of this course follow a logical progression from the choice of a college or university, a student's decision to remain or depart a given college or university, and the effects that college attendance has on students. This course will present a theoretical and practical literature regarding issues associated with today's college student. The course also focuses on ways in which the attributes of the "typical" college student have changed and how the proliferation of non-traditional students on college campuses has presented new challenges for administrators, student affairs professionals, and faculty.

EDAD 6684      Teaching, Learning & Curriculum in Higher Education

3

cr.

Advanced and in-depth study of the classic, contemporary, and emerging issues, ideas, concepts, theories and research that serve to define and expand the boundaries of the literatures related to the areas of teaching, learning and curriculum in higher and postsecondary education. Research and theory in these areas will be studied in ways that emphasize scholarly writing as well as concrete applications to the development of effective policy and practice in each area.

EDAD 6695      Internship In Higher Education

3 cr.

This experiential course offers students individualized opportunities for observation and participation in administration in colleges and universities. Students spend a total of 150 hours per semester working in a structured, supervised setting learning about a particular aspect of higher education administration. Additionally, the students prepare academic products related to their work in the internship setting.

EDAD 6800      School Leadership

3 cr.

School leadership theories with special emphasis on self-reflection on leadership potential and ethics

EDAD 6805      Leading the Learning Environment

3

cr.

This course examines the concept of schools as learning organizations and the role of personal mastery, mental models, shared vision, team learning, and systems thinking. It is designed to provide individuals with current theories, research, and techniques for improving schools through an examination of the School Improvement Plan and through field experiences related to improving the learning environment in the school. This course contributes to creating and sustaining a high-performance learning culture in schools through the study of adult learning, effective professional development, and use of peer coaching and the wide lens observation technique to improve

teaching practices. This course requires field experience.

EDAD 6810 School Law

3 cr.

The evolution, principles, and practices of school law and court decisions, with emphasis on school law of Louisiana and policy implementation of legal decisions.

EDAD 6812 Leading Curriculum, Instruction, and Assessment 3

cr.

This course serves to provide future school leaders an opportunity to examine the needs of the school/district to improve student achievement and to work with teachers and staff to implement aligned curriculum, instruction, and assessment to enable higher student achievement. This course requires field experience.

EDAD 6816 School-Based Management

3 cr.

School decision making models and management with emphasis on academic improvement, personnel, finance, technology, facilities, and maintenance.

EDAD 6840 Organization and Governance of K-12 Schools 3

cr.

The political relationships between schools, government, and society through a policy orientation.

EDAD 6845 School Community Relationships 3

cr.

Implementation of effective school/community programs, including public relations and parent involvement

EDAD 6850 Supervision of Instruction 3

cr.

Theories and practices for instructional improvement, with emphasis on clinical supervision. Skills in classroom observation, conferencing and group facilitation.

EDAD 6855 The Supervision of Student Teaching 3

cr.

Designed to assist students in the techniques of supervising student teachers.

EDAD 6860 Principalship

3 cr.

The Principalship course serves as one of the culminating courses that reinforces and expands theories, skills, and practices for effective leaders. The aim of the course is to provide candidates with relevant examples and simulations of a leader's role in various levels of administrative practice.

EDAD 6875 School Improvement 3

cr.

Prerequisites: EDFR 6700, EDAD 6800 and 6 additional hours of EDAD courses. Review of the school effectiveness research with related topics including teacher effectiveness, principal effectiveness, and school improvement models.

EDAD 6890 Seminar in Educational Administration 3 cr.

Prerequisite: consent of department. This course is designed to analyze in depth contemporary administrative problems of urban and suburban educational systems.

EDAD 6895 Internship in School Leadership 3 cr.

Prerequisite: consent of department. Observation and participation in administration in schools central office special projects allied organizations or other clinical settings.

EDAD 6910 Strategic Approaches to Educational Administration 3 cr.

Prerequisite: admission to the doctoral program in Educational Administration or consent of department. The course provides an overview of the development and use of strategic approaches to planning and management in education. The analysis of case studies is used to build skills in strategic analysis and understanding of the role of strategic decisions in organizational change in all levels of education.

- EDAD 6920      Advanced Theories in Educational Administration      3 cr.  
Prerequisite: admission to doctoral program in Educational Administration or consent of the department. An examination of administrative theories and their applicability to educational administration.
- EDAD 6930      Leader Behavior in Educational Administration      3 cr.  
Prerequisite: admission to doctoral program in Educational Administration or consent of the department. Survey of theories of leadership and leader behavior in educational administration. Students will organize this knowledge into a set of generalizations based on reason and experimentation.
- EDAD 6940      Power and Politics in Educational Administration      3 cr.  
Prerequisite: admission to UNO doctoral program in Educational Administration or consent of department. This course provides a theoretical overview of the relationship between power and politics as applied to education. It is concerned with the impact of policy and the influence of politics in educational organizations at both the macro and micro levels.
- EDAD 6950      Educational Policy Analysis      3 cr.  
Prerequisite: Admission to Educational Administration doctoral program or consent of the department. This seminar will introduce discipline-based conceptual perspectives (or analytic frameworks), which can be used to interpret, analyze, and critique education policy construction, content, and outcomes. The course will also place policy within its socio-economic and political contexts so that students will be able to navigate the broader forces that influence policy and policymaking. The course also endeavors to heighten students' overall awareness to the role and impact policy plays in education so that future educational leaders can help improve processes and products.
- EDAD 6960      Conceptualizing PK16+ Education      3 cr.  
Prerequisite: Admission to the doctoral program in Educational administration or consent of the department. This course will examine issues relevant to conceptualizing PK16+ education. Students will explore challenges faced by school and postsecondary education leaders associated with the preparation of students for educational advancement and effective participation in a democratic society. Students will be challenged to define, reflect upon, and rethink effective leadership approaches associated with student preparedness and advancement as viewed through a variety of lenses: the aims, philosophies and goals of education; curricular design, implementation, assessment, and articulation across levels; learning theories and their applicability across the lifespan; teaching across PK-16+ boundaries; and curricular reform movements and their impacts.
- EDAD 6980      Independent Study in Educational Administration      1 min. cr. - 3 max. cr.  
Prerequisite: advanced graduate standing with consent of department. Investigation of pertinent problems under the direction of a graduate faculty member. This course may be repeated but total credit may not exceed six semester hours. Section number will correspond with credit to be earned.
- EDAD 6991      Selected Topics in Educational Administration      1 min. cr. - 3 max. cr.  
The content of the course will be varied from semester to semester. Section number will correspond with credit to be earned. A total of six semester hours may be earned toward a degree.
- EDAD 6992      Selected Topics in Educational Administration      1 min. cr. - 3 max. cr.  
The content of the course will be varied from semester to semester. Section number will correspond with credit to be earned. A total of six semester hours may be earned toward a degree.
- EDAD 6993      Selected Topics in Educational Administration      1 min. cr. - 3 max. cr.  
The content of the course will be varied from semester to semester. Section number will correspond with credit to be earned. A total of six semester hours may be earned toward a degree.
- EDAD 6997      Research Seminar in Educational Administration      3 cr.  
Prerequisite: consent of department. This course will provide an overview of critical issues in the research design and analysis of data in educational administration. Current publications in educational administration will be reviewed and critiqued. Readings discussions and an analysis of educational methodologies and research in

school administration will be critically examined.

EDAD 7000      Thesis Research      1 min. cr.  
- 9 max. cr.

To be repeated for credit until thesis is accepted. Section number will correspond with credit to be earned

EDAD 7040      Examination or Thesis Only      0  
cr.

No credit. Open to students in a thesis program who have only (other than application for degree) the final typing and acceptance by the Graduate School of their thesis or dissertation or to students in a non-thesis program who have only (other than application for degree) to pass the final examination to complete graduation requirements.

EDAD 7050      Dissertation Research      1 min. cr. -  
9 max. cr.

Prerequisite: consent of department. To be repeated for credit until the dissertation is accepted. Section number will correspond with credit to be earned.



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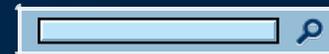
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## Educational Foundations and Research

EDFR 4990      Special Topics in  
Education

3 cr.

Prerequisite: consent of department and major professor. Topic will vary from semester to semester. This course may be repeated once for credit.

EDFR 5990      Special Topics in  
Education

3 cr.

Prerequisite: consent of department and major professor. Topic will vary from semester to semester. This course may be repeated once for credit.

EDFR 6090      Independent Research in Educational Foundations

1 min. cr. -  
3 max. cr.

(EDFR 6090 and EDGC 6090 are cross-listed) Prerequisites: consent of department and major professor. Independent research under the supervision of a graduate faculty member. The course may be repeated but total credit may not exceed six semester hours. Section number will correspond with credit to be earned.

EDFR 6400      History of American  
Education

3 cr.

The historical evolution of educational thought and practice in the United States from the colonial period to the present with attention given to significant educational movements and European influences.

EDFR 6420      Philosophy of American Education

3 cr.

A study of trends in the philosophy of education with emphasis upon American education.

EDFR 6440      Socio-Cultural Foundations of Education

3 cr.

An examination of the social factors affecting learning and education as well as the changing relationship between the schools and other societal institutions. The course is also designed to develop an understanding and an appreciation of the broader social forces that play a major role in current issues and concerns in education.

EDFR 6500      Contemporary Urban Education

3

cr.  
An understanding of the urbanization process in America and its effect upon education. Current problems that relate to education in metropolitan areas will be identified and analyzed.

EDFR 6675      Advanced Educational Program Evaluation

3 cr.

(EDFR 6675 and EDCI 6675 are cross-listed) Prerequisites EDCI 6670 and EDFR 6710 and 6711 or consent of department. This course is designed to provide students with the research and evaluation skills required to implement various program evaluation models. It is also intended to provide the skills necessary for effectively using the standards of the National Joint Committee on Standards for Program Evaluation as required by state certification guidelines.

EDFR 6700	Educational Research 3 cr.	
This course is an introductory research course for educators. It is designed to provide students with the basic information needed to understand the process of systematically researching a problem and to enable students to evaluate and interpret the research of others.		
EDFR 6705	Quantitative and Qualitative Research Design cr.	3
Prerequisites: EDFR 6700 and admission to the M.A. program or a Ph.D. program in the College of Education or consent of department. Graduate students prepare to become researchers in this course. Epistemology and differences in research paradigms are reviewed. The designs available to researchers in quantitative and qualitative traditions are detailed. Introduction to the process of developing research proposals.		
EDFR 6710	Descriptive Statistics and Inferential Hypothesis Testing cr.	3
Corequisite or Prerequisite: EDFR 6705 or consent of department. An introduction to basic statistics for students who plan to conduct research using empirical methods. Topics include descriptive statistics; probability in sampling; hypothesis testing inferential statistics; and non-parametric statistics.		
EDFR 6715	Introduction to Qualitative Research Methods cr.	3
Prerequisite: EDFR 6705 or consent of department. This course is designed to introduce graduate students to the nature and uses of qualitative research methods in education. This course addresses the process of qualitative research design, the various traditions within qualitative research, selected methodological issues, and writing up research results.		
EDFR 6720	Applied Regression and Analysis of Covariance cr.	3
Prerequisites: EDFR 6700 and 6710 or consent of department. Applied knowledge of advanced statistical methods. Topics include multiple regression, analysis of variance following multiple comparison tests; analysis of covariance; and log linear models.		
EDFR 6721	Qualitative Research Data Collection 3 cr.	
Prerequisites: EDFR 6705 and 6715 or consent of department. This course focuses on methods of data collection. Students will be expected to engage in field research experiences.		
EDFR 6725	Multivariate Statistics and Covariance Structure Analysis cr.	3
Prerequisite: EDFR 6700, 6710, and 6720, or consent of department. Sophisticated multivariate methods of analyzing complex relationships among many variables. Topics include matrix algebra; multivariate analysis of variance; multivariate analysis of covariance; discriminant function analysis; factor analysis; cluster analysis; and path analysis.		
EDFR 6731	Qualitative Research Data Analysis and Writing cr.	3
Prerequisites: EDFR 6705, EDFR 6715, and EDFR 6721, or consent of department. This course focuses on methods of data analysis, presentation of results, issues of validity, and the role of the researcher in qualitative research.		
EDFR 6990	Independent Study in Education 3 max. cr.	1 min. cr. -
Prerequisites: consent of department and major professor. Independent study under the direction of a graduate faculty member. This course may be repeated but the total credit may not exceed six semester hours. Section number will correspond with credit to be earned.		
EDFR 6991	Practicum in Educational Evaluation cr.	3
(EDFR 6991 and EDCI 6991 are cross listed). Prerequisite: EDCI 6675 EDFR 6675 or consent of department. Open to Education students only. This course is intended to provide students with the opportunity to practice in an		

actual school setting the program evaluation skills learned in previous courses. The practicum will be conducted under the supervision of a graduate faculty member who is an experienced evaluator.

EDFR 6993      Special Topics in Educational Research      1 min. cr. -  
3 max. cr.

Prerequisite: consent of department. Topic will vary from semester to semester. Course may be repeated for a maximum of nine semester hours credit. Section number will correspond with credit to be earned.



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- Analysis 3 cr.  
Prerequisite: Concurrent registration or credit in ENEE 2551 with C or better, and MATH 3511 and MATH 2221. Fundamental techniques for the analysis of electrical and electronic signals and systems are introduced and include: signal representation, Fourier series, Fourier transform, Laplace transform, discrete Fourier transform, and the Z-transform. Emphasis will be placed on the application of the above techniques to engineering problems.
- ENEE 3533 Classical Control System Design 3 cr.  
Prerequisites: ENEE 3530 with C or better. Design of control systems using classical frequency response and Laplace transforms techniques; analysis and design of servo-systems using Nyquist, Bode, and root-locus diagrams; design criteria, system stability, frequency, and time response. State variable feedback.
- ENEE 3535 Communication System Design 3 cr.  
Prerequisites: ENEE 3530 with C or better. Design, characterization, and selection of communication methods and systems.
- ENEE 3540 Engineering Electronics 3 cr.  
Prerequisite: ENEE 2551 with C or better. The characteristics of modern solid-state non-linear and active devices, representative circuit models, and the analysis and design of typical circuits using these devices.
- ENEE 3543 Engineering Electronic Systems 3 cr.  
Prerequisite: ENEE 3540 and concurrent registration in ENEE 3517. Use of solid-state devices as basic system building blocks. Multistage amplifiers, feedback amplifiers, stability and oscillators, analog systems, power circuits and systems.
- ENEE 3547 Digital Integrated Circuit Design 3 cr.  
Prerequisites: ENEE 2582, 2586, and 3540. Study of characteristics of bipolar and CMOS logic gates and design techniques for digital integrated circuits.
- ENEE 3560 Engineering Electromagnetics I 3 cr.  
Prerequisites: ENEE 2551 with C or better, and MATH 2115 or MATH 2134, and, MATH 2221. Electrostatics and magnetostatics and their applications to analysis and design in various fields of electrical engineering. Formulation of Maxwell's equations for electromagnetic fields in free space and in material media. The wave equation and plane-wave propagation.
- ENEE 3561 Engineering Electromagnetics II 3 cr.  
Prerequisite: ENEE 3560. Maxwell's equations for time-varying electromagnetic fields and their applications; wave propagation through different media; design of transmission lines and waveguides; introduction to electromagnetic radiation; and antennas.
- ENEE 3572 Probabilistic Methods of Signal and System Analysis 3 cr.  
Prerequisites: ENEE 3530 with C or better. The fundamentals of probability theory are introduced. Application of probability theory to signal and system analysis is considered and includes correlation functions, spectral density, linear system response to random input signals, and system parameter optimization.
- ENEE 3574 Communication Systems Design Laboratory 1 cr.  
Prerequisites: Credit or registration in ENEE 3535. Selected experiments examining fundamental performance and design concepts of modulation systems, including design projects. Three hours of laboratory to accompany ENEE 3535 lecture course.
- ENEE 3575 Voice Video Telecommunications System 3 cr.



ENEE 4524 Introduction to Power Systems Dynamics and Control 3 cr.

Prerequisite for ENEE 4524: ENEE 3522. The course introduces dynamics, oscillations, and control relating to power systems operation and planning. Topics covered include applications of: systems state space representation, solution of linear and nonlinear dynamic systems, linearization of nonlinear systems, equilibrium point stability study of linear and nonlinear systems, power system small signal stability analysis, transient stability analysis, equal area criterion, voltage stability analysis, power system stabilizers, and inter and intra area frequency oscillations in power systems.

ENEE 4526 Protective Relaying of Power Systems 3 cr.

Prerequisite for ENEE 4526: ENEE 3522. Protection of power system components like transmission lines, transformers, radial feeders, generators, and motors from faults and lightning. Differential protection of transformers, generator windings, and transmission lines. Distance protection of transmission lines. Relay coordination for radial feeders. Carrier protection. Use of current and voltage transformers.

ENEE 4533 Digital Control System Design 3 cr.

Prerequisite for ENEE 4533: ENEE 3533. Design and analysis of digital control systems using transform techniques and state-space methods.

ENEE 4534 Process Control Systems 3 cr.

(ENEE 4534 and ENME 4753 are cross-listed)

Prerequisites for ENEE 4534: ENEE 3530 or ENME 3020 or MATH 3221. A study of contemporary automatic control methods for continuous industrial processes. Topics include characterization of typical process dynamics, plant identification, parameter estimation, controller tuning techniques, and industrial process instrumentation applications.

ENEE 4535 Introduction to Digital Signal Processing 3 cr.

Prerequisite for ENEE 4535: ENEE 3530 with C or better.

Fundamental concepts of digital signal processing are developed and include signal representation; Fourier series; z-transforms; discrete Fourier series; discrete random signals; data window functions; applications of DFT to convolution, auto and cross-correlation and power and energy spectrum distribution estimation; digital filter design; homomorphic signal processing.

ENEE 4536 Embedded Multimedia Systems 3 cr.

Prerequisites for ENEE 4536: ENEE 2582, ENEE 2586.

An introduction to the design, implementation, and testing of embedded systems with emphasis on multimedia applications. The course integrates three principal areas: fundamentals of hardware and firmware design, algorithmic design for multimedia processing, and embedded system prototyping for programmable logic.

ENEE 4543 Power Electronics and Drives 3 cr.

Prerequisites for ENEE 4543: ENEE 3521 and 3540.

Introduction to semiconductor devices, circuits with diodes and power switching devices, controlled rectifiers, dc choppers, dc and ac motor drives including armature-controlled dc motor drives, inverterfed induction and synchronous motor drives.

ENEE 4544 Radio Frequency Circuit Design 3 cr.

Prerequisites for ENEE 4544: ENEE 3530 with C or better and 3540.

Analysis and design of radio frequency systems. Differentiation between high frequency circuits, S parameters, Smith charts, noise figure, amplifier stability, transmission lines (microstrip design), antenna basics, phase locked loops (PLLs), and impedance matching techniques.

ENEE 4545 Introduction to VLSI Design





Processing	3 cr.
Prerequisite for ENEE 4535: ENEE 3530 with C or better.	
Fundamental concepts of digital signal processing are developed and include signal representation; Fourier series; z-transforms; discrete Fourier series; discrete random signals; data window functions; applications of DFT to convolution, auto and cross-correlation and power and energy spectrum distribution estimation; digital filter design; homomorphic signal processing.	
ENEE 5536 Embedded Multimedia Systems	3 cr.
Prerequisites for ENEE 4536: ENEE 2582, ENEE 2586.	
An introduction to the design, implementation, and testing of embedded systems with emphasis on multimedia applications. The course integrates three principal areas: fundamentals of hardware and firmware design, algorithmic design for multimedia processing, and embedded system prototyping for programmable logic.	
ENEE 5543 Power Electronics and Drives	3 cr.
Prerequisites for ENEE 4543: ENEE 3521 and 3540.	
Introduction to semiconductor devices, circuits with diodes and power switching devices, controlled rectifiers, dc choppers, dc and ac motor drives including armature-controlled dc motor drives, inverterfed induction and synchronous motor drives.	
ENEE 5544 Radio Frequency Circuit Design	3 cr.
Prerequisites for ENEE 4544: ENEE 3530 with C or better and 3540.	
Analysis and design of radio frequency systems. Differentiation between high frequency circuits, S parameters, Smith charts, noise figure, amplifier stability, transmission lines (microstrip design), antenna basics, phase locked loops (PLLs), and impedance matching techniques.	
ENEE 5545 Introduction to VLSI Design	3 cr.
Prerequisites for ENEE 4545: ENEE 2582, 2586, and 3540.	
This course introduces fundamental principles of VLSI circuit design and covers the basic building blocks of large-scale digital integrated circuits/systems. Systematic design methods for modern digital VLSI circuits will be studied. Students will learn hands-on design methods using the VLSI CAD tools.	
ENEE 5554 Analog and Digital Filter Design	3 cr.
Prerequisite for ENEE 4554: ENEE 3530 with C or better.	
The synthesis of analog and digital filters; elementary one port synthesis; Darlington filter synthesis; phase correction; synthesis of real-part, magnitude, and phase; realization of recursive and nonrecursive digital filters; windowing; parallel, cascade, and direct forms of digital filters; digital hardware implementation.	
ENEE 5562 Engineering Optics	3 cr.
Prerequisites for ENEE 4562: ENEE 3560 and PHYS 2064.	
Optical fundamentals for engineering. Waves; diffraction; optical waveguides; interferometry and holography.	
ENEE 5566 Introduction to Optical Networks	3 cr.
Prerequisites for ENEE 4566: ENEE 3530 with C or better.	
To introduce the basics of optical communications networks, including the enabling technology, as well as network architectures and protocols. Optical components and interfaces, optical transmission and reception techniques will be studied. Network architectures of past and future generation optical networks will also be studied.	
ENEE 5570 Audio Engineering	3 cr.
Prerequisite for ENEE 4570: ENEE 3530 with C or better and ENEE 3540 or consent of department.	
Analog and digital recording and reproduction techniques and Systems are examined, and include microphone design, selection and application; Mixing and recording equipment design and techniques; Reproduction system elements, including disc reproduction, pre-amplification, power amplification, tuner, tape recording, signal	










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## Engineering

ENGR 3090      Senior Seminar      1  
cr.

Lectures on current topics in engineering by members of the faculty, engineers from industry, researchers, and senior and graduate students in engineering. The role of the engineer in today's society, professional ethics, and professional registration; OSHA; technical societies.

ENGR 5755      Mechanical Vibrations      3  
cr.

Single and double degree of freedom systems in free and forced motion, vibration analysis of continuous systems, and vibration measurement devices.

ENGR 7000      Thesis Research      1 min. cr.  
- 9 max. cr.

To be repeated for credit until thesis is accepted. Section number will correspond with credit to be earned.

ENGR 7040      Examination or Thesis Only      0  
cr.

No credit. Open to students in a thesis program who have only (other than application for degree) the final typing and acceptance by the Graduate School of their thesis or to students in a non-thesis program who have only (other than application for degree) to pass the final examination to complete graduate requirements.



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## Engineering Management

ENMG 4130      Change

Management

3 cr.

Prerequisite for ENMG 4130: none except senior or graduate status and consent of department.

This course is designed to provide techniques and principles as to how to introduce change into organizations. Emphasis will be on the three phases of change; initiating change, implementing change, and institutionalizing change. Means of applying change principles will be developed through the use of templates and worksheets.

ENMG 4471      Quality

Management

3 cr.

(MANG 4471 and ENMG 4471 are cross-listed)

Prerequisite for MANG 4471: MANG 3402 or consent of department.

Prerequisite for MANG 5471: MANG 3402 or MANG 4400 or consent of department.

Students may receive graduate credit for only one of MANG/ENMG 4471, MANG 5471 or MANG 6471. Describes the basic concepts of quality planning and quality control. Discussion on quality improvement plans, Deming philosophy, and Juran's quality trilogy, the Deming prize and Baldrige award for quality excellence, and quality circles. Study of the statistical approach to quality control and the use of control charts and other quality control tools. Case studies from around the world on the implementation of total quality management.

ENMG 5130      Change Management

3 cr.

Prerequisite for ENMG 4130: none except senior or graduate status and consent of department.

This course is designed to provide techniques and principles as to how to introduce change into organizations. Emphasis will be on the three phases of change; initiating change, implementing change, and institutionalizing change. Means of applying change principles will be developed through the use of templates and worksheets.

ENMG 5471      Quality Management

3 cr.

(MANG 4471 and ENMG 4471 are cross-listed)

Prerequisite for MANG 4471: MANG 3402 or consent of department.

Prerequisite for MANG 5471: MANG 3402 or MANG 4400 or consent of department.

Students may receive graduate credit for only one of MANG/ENMG 4471, MANG 5471 or MANG 6471. Describes the basic concepts of quality planning and quality control. Discussion on quality improvement plans, Deming philosophy, and Juran's quality trilogy, the Deming prize and Baldrige award for quality excellence, and quality circles. Study of the statistical approach to quality control and the use of control charts and other quality control tools. Case studies from around the world on the implementation of total quality management.

ENMG 6090      Internship in Engineering Management

1 cr.

Prerequisite: Consent of department. Permits students to be engaged in at least 10 hours per week at the site of an assigned participating organization that directs interns in specific projects relating to engineering management. Students wishing to take this course should apply one semester in advance since enrollment is limited by internship availability.

ENMG 6095      Engineering Management Capstone Project      3  
cr.

(Open to Master's candidates in their final semester only.) Prerequisite: Consent of department. Individual or team study and evolution of a project involving engineering management. The project may be specified or may be developed from the student's own work environment. The project will culminate in a formal report presented and defended before faculty and other interested parties.

ENMG 6096      Special Topics in Engineering Management      1 min.  
cr. - 3 max. cr.

Prerequisite: Consent of program. Special lectures or independent study on subjects of current interest in the various fields of engineering management. No student may earn more than a total of nine hours of degree credit in these courses.

ENMG 6097      Special Topics in Engineering Management      1 min.  
cr. - 3 max. cr.

Prerequisite: Consent of program. Special lectures or independent study on subjects of current interest in the various fields of engineering management. No student may earn more than a total of nine hours of degree credit in these courses.

ENMG 6098      Special Topics in Engineering Management      1 min.  
cr. - 3 max. cr.

Prerequisite: Consent of program. Special lectures or independent study on subjects of current interest in the various fields of engineering management. No student may earn more than a total of nine hours of degree credit in these courses.

ENMG 6101      Engineering Management 1      3 cr.

(ENMG 6101 and MANG 6710 are cross-listed) Prerequisite: For ENMG students, concurrent enrollment in ENMG 6105. Course discussion includes concepts involved in effectively managing an innovative organization, the relationship between innovation and strategic planning, methods for fostering innovation within an organization, and guidelines for overcoming barriers to implementing innovative ideas within organizational structures.

ENMG 6102      Engineering Management II      3  
cr.

Prerequisite: B.S. in Engineering or consent of department. Basic concepts of ethical and legal aspects of engineering management are reviewed, including a review of court systems, contracts, torts, agency and business entity formation. Additionally, human resources management in areas such as hiring, promotions, and staffing will be reviewed. Basic precepts of Total Quality Management are also presented.

ENMG 6103      Technology Entrepreneurship      3 cr.  
One-time waiver.

ENMG 6105      Capstone Project Development Laboratory      3 cr.  
One-time waiver.

ENMG 6111      Quantitative Analysis of Engineering Management I      3 cr.

Prerequisite: B. S. in Engineering or consent of department. Basic concepts of accounting, financial analysis, and economic analysis applied to problems confronting the engineer. Emphasis will be placed upon interpreting and using accounting and cost data in planning and projecting work, as well as analysis using financial and economic models.

ENMG 6112      Quantitative Analysis of Engineering Management II      3 cr.

Prerequisite: Consent of Department - Use of statistical analysis and risk management principles in the decision making process. Emphasis will be upon probabilistic thinking and applying concepts of statistics and decision making models to uncertain decision making situation.

ENMG 6120	Project Management	3
cr. (ENCE 6390, ENMG 6120, and MANG 6472 are cross-listed) Prerequisite: consent of department. Encompasses project organization structure, project planning and control. Discussions will include performance analysis based on earned value. Emphasis will be given to project management information systems. Human behavior in the project setting will be discussed.		
ENMG 6130	Management of Technology Change	3 cr.
Prerequisite: ENMG 6101 or consent of department. Emphasis on techniques that are useful in successfully introducing change in technical organizations. The role of sponsors, advocates, targets, and agents. Change viewed as a process. Case studies are examined, when appropriate, but much of the learning is directed toward application of the principles of change to the students' organizations.		
ENMG 6150	Systems Analysis, Development, and Management	3 cr.
(ENMG 6150 and NAME 6080 are cross-listed) Prerequisite: Consent of department. Introduction to the fundamentals of systems engineering. Presents a holistic approach to principles, methods, and tools for system engineering as applied to complex systems development. Systems engineering includes the analysis of complexity through decomposition and reintegration, the prediction of emergent properties, writing and providing traceability for requirements, methods for uncertainty and risk analysis as applied to cost and technology, and evolution of design and operations. Focuses on the conceptual phase of product definition, including technical, economic, market, environmental, regulatory, legal, manufacturing, and societal factors. Various standards, guides, and handbooks are applied to establish a basis for synthesis to a system domain.		
ENMG 6160	Innovation Concepts and Methodologies	3 cr.
One-time waiver.		
ENMG 6401	Seminar in Organizational Behavior	3 cr.
(MANG 6401 and ENMG 6401 are cross-listed) Prerequisite: MANG 3401 or ENMG 6101 or consent of department. A study of organizational behavior across all levels of organizational life: the individual, interpersonal, group, organizational, and society. Problems to be discussed and dealt with include motivation, communications, leadership, group dynamics, power, organizational structures and design, and various types of environmental constraints including competition, markets, and governmental regulations. Lecture, discussion, and group problem-solving project reports are included in instructional methodology.		
ENMG 7000	Thesis Research	1 min. cr.
- 9 max. cr. Prerequisite: Consent of department. To be repeated for credit until thesis is accepted. Section number will correspond with credit to be earned.		
ENMG 7040	Examination or Thesis Only	0 cr.
No credit. Prerequisite: Consent of department. Open to students in a thesis program who have only (other than application for degree) the final typing and acceptance by the Graduate School of their thesis or dissertation or to students in a non-thesis program who have only (other than application for degree) to pass the final examination to complete graduation requirements.		



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cr.

Prerequisite: ENGL 2228; 2258; or consent of department. An introduction to the basic forms and techniques of poetry writing.

ENGL 2208 Reading Drama

3 cr.

Offered each semester. A general introduction to the study and appreciation of drama.

ENGL 2218 Reading Creative Nonfiction Literature

3

cr.

A general introduction to the study and appreciation of creative nonfiction literature.

ENGL 2228 Reading Poetry

3 cr.

Offered each semester. A general introduction to the study and appreciation of poetry.

ENGL 2238 Reading Fiction

3

cr.

Offered each semester. A general introduction to the study and appreciation of fiction.

ENGL 2258 Interpreting Literature

3 cr.

Prerequisite: Departmental consent. An intensive course in writing about various literary genres, designed to sharpen literary skills. Required for English majors.

ENGL 2279 The Literature of Ancient Greece

3

cr.

Open only to honors students concurrently enrolled in A&S 1119. An intensive writing course on art, literature, and philosophy of Ancient Greece.

ENGL 2311 American Film as Literary Art

3 cr.

An introduction to the literary art of American film based on representative classics. A laboratory fee is required.

ENGL 2312 International Film As Literary Art

3

cr.

An introduction to the literary art of film based on representative international films. Completion of ENGL 2311 is recommended. A laboratory fee is required.

ENGL 2341 A Survey of British Literature from the Beginning to the Later Eighteenth Century

3 cr.

This course is open to all students; it is required for English majors.

ENGL 2342 A Survey of British Literature from the Romantics to the Present

3

cr.

This course is open to all students; it is required for English majors.

ENGL 2371 Classics of Western Literature I

3 cr.

A study of Greek and Latin literature in translation. This course will acquaint the student with major classical works and their influence on English and American literature. The course will include works by Homer, Aeschylus, Sophocles, Euripides, Plato, Virgil, Horace, Catullus, Juvenal, and Ovid.

ENGL 2372 Classics of Western Literature II

3

cr.

Prerequisite: three hours of literature courses numbered 2000 or above or consent of department. A study of European literature in translation. This course will acquaint the student with major French, Spanish, Italian, German, and Russian works and their influence on English and American literature.

ENGL 2374 Asian Literature

3 cr.

An introductory survey of Asian literature in translation. The course will acquaint the student with major works of India, China, and Japan stressing their influence on the themes and genres of contemporary Western literature.

ENGL 2375 Asian American Literature 3

cr.

An introduction to the literary works of Asian Americans, including those of Chinese, Japanese, Korean, Filipino, Vietnamese, Indonesian, and South Asian descent.

ENGL 2377 The Bible as Literature 3

cr.

A study of selections from the Old and New Testaments.

ENGL 2378 Introduction to Women 's Literature 3

cr.

An introductory survey of representative works in diverse literary forms by women from a wide variety of backgrounds and cultures with a focus on the idea of difference in women's writings and consider their relation to issues of class race sexual orientation and social context.

ENGL 2392 Independent Work 1 min.

cr. - 3 max. cr.

Prerequisite: Consent of department. Reading, conferences, and reports under the direction of a member of the English faculty. May be taken for a maximum of 3 credit hours.

ENGL 2521 Introduction to Shakespeare 3

cr.

Students read a selection of Shakespeare's more popular plays and may view performances as well.

ENGL 3394 Seminar in English 3

cr.

Prerequisite: ENGL 2258 and departmental consent. A survey of contemporary critical approaches to literature through the in-depth study of a single author, literary theme, or topic.

ENGL 3399 Senior Honors Thesis 3

cr.

Prerequisite: consent of department and the director of the Honors Program. Directed research culminating in a written thesis to meet the requirements for graduation with Honors in English and if appropriate University Honors. Upon petition three hours of related course work in advanced English may be credited toward the thesis. May be taken twice for a maximum of six credit hours.

ENGL 4030 Colonial & Early National American Literature

3 cr.

A study of American literature from the beginnings to 1820.

ENGL 4031 The American Renaissance 3 cr.

A study of American literature from 1820 to the Civil War.

ENGL 4032 American Realism and Naturalism

3 cr.

A study of American literature from the Civil War to 1910.

ENGL 4033 American Modernism 3 cr.

A study of American literature from 1910 to 1950.

ENGL 4034 Contemporary American Literature 3

cr.

A study of American literature from 1950 to the present.

ENGL 4043 New Orleans Literature

3 cr.

A survey of the literature of New Orleans within regional contexts.

ENGL 4045 Southern Literature

3 cr.

The literature of the American South surveyed from its colonial origins to the present, with special attention to the major figures.

ENGL 4070 Special Topics in Women, Literature, and Society 3

cr.

(WGS/WLS 4070, ENGL 4070 and SOC 4070 are cross-listed) Prerequisite: ENGL 2378. A team-taught, interdisciplinary study of women in literature and society. Variable topics include women and crime, women and work, women and the family, women and religion. Can be taken 2 times for a maximum of 6 credit hours.

ENGL 4091 American Movements and Genres, 1500-1860 3

cr.

Discussion of one American literary movement or genre. May include film. Topic may vary from semester to semester. May be repeated once for credit with different topic, with consent of department.

ENGL 4092 American Movements and Genres, 1860-present 3 cr.

Discussion of one American literary movement period or genre. May include film. Topic may vary from semester to semester. May be taken twice with different topics and consent of department for a maximum of six credit hours.

ENGL 4093 Studies in Black Literatures 3

cr.

Topic will vary from semester to semester. May be taken twice with different topics and consent of department for a maximum of six credit hours.

ENGL 4151 Modern Composition: Theory and Practice 3

cr.

Prerequisite for ENGL 4151: ENGL 2151 or consent of department.

Intensive study and practice in recent applications of traditional rhetorical modes.

ENGL 4152 Technical Editing and Reporting

3 cr.

A detailed examination of important aspects of technical communication: technical editing, formal proposal writing, formal report writing, instruction manuals, and technical graphics.

ENGL 4154 Advanced Creative Non-Fiction Writing 3

cr.

Prerequisite for ENGL 4154: ENGL 2154 or consent of department based on a writing sample.

Guided practice in writing creative nonfiction and a close, intensive study of the techniques involved. May be taken twice for a maximum of six credit hours.

ENGL 4155 Professional Editing

3 cr.

A practical course dealing with the techniques of professional editing of nontechnical material.

ENGL 4158 Legal Writing

3 cr.

A practical course dealing with the techniques of legal writing, the skills of composition appropriate to the special needs of lawyers and others in the legal professions.

ENGL 4161 Advanced Fiction Writing 3

cr.

Prerequisite for ENGL 4161: ENGL 2161 or consent of department based on a writing sample.

Guided practice in writing fiction and a close, intensive study of the techniques involved. May be taken twice for a maximum of six credit hours.

ENGL 4163	Advanced Poetry Writing	3
cr.		
Prerequisite for ENGL 4163: ENGL 2163 or consent of department based on a writing sample.		
Guided practice in writing poetry and a close, intensive study of the techniques involved. May be taken twice for a maximum of six credit hours.		
ENGL 4231	Literary Criticism	
3 cr.		
A study of some of the more important literary critics, ancient and modern.		
ENGL 4240	Adolescent Literature	
3 cr.		
(ENGL 4240 and EDLS 4200 are cross listed). A survey of books and materials appropriate for use with the adolescent reader. Emphasis will be placed on selection and discussion of books for today's teenagers. This course can be used to satisfy general degree requirements in literature for upper elementary education students only. English majors may not use this course toward the requirements for the major.		
ENGL 4378	Advanced Studies in Women and Literature	3
cr.		
Advanced work in feminist critical theories and their application to fictional and non-fictional literature. May be taken twice with different topics and consent of department for a maximum of six credit hours.		
ENGL 4380	Studies in Irish Literature	3
cr.		
A study of a single literary movement, period, or genre in Irish literature. Topic may vary from semester to semester.		
ENGL 4390	Comparative Studies	3
cr.		
A course that applies the aims and methods of comparative studies to a topic in focusing on literature across national boundaries and/or in relation to other arts and disciplines. Topics will vary. May be taken twice with different topics and consent of department for a maximum of six credit hours.		
ENGL 4391	Special Topics in Language and Literature	3
cr.		
Prerequisite for ENGL 4391: consent of department.		
Topic will vary from semester to semester. May be taken twice with different topics and consent of department for a maximum of six credit hours.		
ENGL 4392	Independent Study	1 min.
cr. - 3 max. cr.		
Prerequisite: consent of department. Reading, discussions, and reports under the direction of a member of the English faculty. This course may be taken for a maximum of 3 credit hours.		
ENGL 4398	Internship in English	3
cr.		
Prerequisite: consent of department. A course emphasizing writing skills in internships in local industrial, business, and government agencies. May be taken twice by undergraduates only for a maximum of six credit hours.		
ENGL 4401	Literature of England in the Later Middle Ages	3 cr.
Readings in the works of Langland, Gower, Malory, and the "Pearl Poet" and in other works of the period between 1100 and 1500.		
ENGL 4421	Chaucer	3
cr.		
The Canterbury Tales.		
ENGL 4521	Shakespeare	3
cr.		

The earlier plays, their background, with some attention to Shakespeare's life and time.

ENGL 4522      Shakespeare      3 cr.

The later plays, with particular emphasis on the author's development.

ENGL 4601      English Literature Of the Seventeenth Century, 1600-1660      3 cr.

A survey of the literature of the later Renaissance in England, including works by the major prose writers and by the metaphysical, Cavalier, and devotional poets: Bacon, Hobbes, Donne, Jonson, Herrick, Herbert, Milton, and Marvell.

ENGL 4616      Drama of the Age of Shakespeare      3 cr.

Shakespeare's contemporaries and immediate successors to 1642.

ENGL 4621      Milton      3

cr.

A study of the poems with emphasis on Paradise Lost, Paradise Regained, and Samson Agonistes and an examination of various prose works.

ENGL 4701      Restoration and Early Eighteenth Century Literature      3 cr.

Prose and poetry from the Restoration to the death of Pope with emphasis on Dryden, Pope, and Swift.

ENGL 4702      Later Eighteenth Century Literature      3 cr.

Prose and poetry from the death of Pope to 1798 with emphasis on Johnson and his circle.

ENGL 4715      The Eighteenth Century English Novel      3 cr.

A study of the development and characteristics of the English novel from its beginnings through the time of Austen.

ENGL 4801      Prose and Poetry of the Early Romantic Period      3 cr.

Writers of the preromantic period; Blake, Wordsworth, Coleridge, and other writers of the period.

ENGL 4802      Later Romantic Writers      3 cr.

Emphasis on Byron, Shelley, and Keats with some attention to such prose writers as DeQuincey and Hazlitt.

ENGL 4807      Earlier Victorian Literature      3 cr.

Tennyson, Browning, Macaulay, Carlyle, and their contemporaries.

ENGL 4808      Later Victorian Literature      3 cr.

Arnold, Swinburne, Morris, Rossetti, Pater, Stevenson, and contemporaries to 1900.

ENGL 4815      The Nineteenth Century English Novel      3 cr.

A study of the English novel from Austen to Conrad.

ENGL 4913      Early Twentieth Century Poetry      3 cr.

Modern English and American poetry to 1945.

ENGL 4914      Contemporary Poetry      3 cr.

English and American poetry since 1945.

ENGL 4915      The Modern Novel      3

cr.

A study of the novel from 1900 to 1945.

ENGL 4916      Twentieth Century Drama      3

cr.

Modern and Contemporary European, English, and American Drama.

ENGL 4917      The Contemporary Novel      3

cr.

A study of the novel since 1945.

ENGL 4918      Creative Nonfiction Literature      3 cr.

A study of creative nonfiction literature, including such subgenres as personal essays, literary journalism, profiles, writing about the natural world, travel writing and memoir.

ENGL 5030	Colonial & Early National American Literature	3 cr.
A study of American literature from the beginnings to 1820.		
ENGL 5031	The American Renaissance	3 cr.
A study of American literature from 1820 to the Civil War.		
ENGL 5032	American Realism and Naturalism	3 cr.
A study of American literature from the Civil War to 1910.		
ENGL 5033	American Modernism	3 cr.
A study of American literature from 1910 to 1950.		
ENGL 5034	Contemporary American Literature	3 cr.
A study of American literature from 1950 to the present.		
ENGL 5043	New Orleans Literature	3 cr.
A survey of the literature of New Orleans within regional contexts.		
ENGL 5045	Southern Literature	3 cr.
The literature of the American South surveyed from its colonial origins to the present, with special attention to the major figures.		
ENGL 5070	Special Topics in Women, Literature, and Society	3 cr.
(WGS/WS 4070, ENGL 4070 and SOC 4070 are cross-listed) Prerequisite: ENGL 2378. A team-taught, interdisciplinary study of women in literature and society. Variable topics include women and crime, women and work, women and the family, women and religion. Can be taken 2 times for a maximum of 6 credit hours.		
ENGL 5091	American Movements and Genres, 1500-1860	3 cr.
Discussion of one American literary movement or genre. May include film. Topic may vary from semester to semester. May be repeated once for credit with different topic, with consent of department.		
ENGL 5092	American Movements and Genres, 1860-present	3 cr.
Discussion of one American literary movement period or genre. May include film. Topic may vary from semester to semester. May be taken twice with different topics and consent of department for a maximum of six credit hours.		
ENGL 5093	Studies in Black Literatures	3 cr.
Topic will vary from semester to semester. May be taken twice with different topics and consent of department for a maximum of six credit hours.		
ENGL 5151	Modern Composition: Theory and Practice	3 cr.
Prerequisite for ENGL 4151: ENGL 2151 or consent of department.		
Intensive study and practice in recent applications of traditional rhetorical modes.		
ENGL 5152	Technical Editing and Reporting	3 cr.
A detailed examination of important aspects of technical communication: technical editing, formal proposal writing, formal report writing, instruction manuals, and technical graphics.		
ENGL 5154	Advanced Creative Non-Fiction Writing	3 cr.
Prerequisite for ENGL 5154: ENGL 2154 or consent of department based on a writing sample.		
Guided practice in writing creative nonfiction and a close, intensive study of the techniques involved. May be taken twice for a maximum of six credit hours.		
ENGL 5155	Professional Editing	3 cr.
A practical course dealing with the techniques of professional editing of nontechnical material.		
ENGL 5158	Legal Writing	3 cr.

A practical course dealing with the techniques of legal writing, the skills of composition appropriate to the special needs of lawyers and others in the legal professions.

ENGL 5161	Advanced Fiction Writing	3 cr.
Prerequisite for ENGL 4161: ENGL 2161 or consent of department based on a writing sample.		
Guided practice in writing fiction and a close, intensive study of the techniques involved. May be taken twice for a maximum of six credit hours.		
ENGL 5163	Advanced Poetry Writing	3 cr.
Prerequisite for ENGL 4163: ENGL 2163 or consent of department based on a writing sample.		
Guided practice in writing poetry and a close, intensive study of the techniques involved. May be taken twice for a maximum of six credit hours.		
ENGL 5231	Literary Criticism	3 cr.
A study of some of the more important literary critics, ancient and modern.		
ENGL 5240	Adolescent Literature	3 cr.
(ENGL 4240 and EDLS 4200 are cross listed). A survey of books and materials appropriate for use with the adolescent reader. Emphasis will be placed on selection and discussion of books for today's teenagers. This course can be used to satisfy general degree requirements in literature for upper elementary education students only. English majors may not use this course toward the requirements for the major.		
ENGL 5378	Advanced Studies in Women and Literature	3 cr.
Advanced work in feminist critical theories and their application to fictional and non-fictional literature. May be taken twice with different topics and consent of department for a maximum of six credit hours.		
ENGL 5380	Studies in Irish Literature	3 cr.
A study of a single literary movement, period, or genre in Irish literature. Topic may vary from semester to semester.		
ENGL 5390	Comparative Studies	3 cr.
A course that applies the aims and methods of comparative studies to a topic in focusing on literature across national boundaries and/or in relation to other arts and disciplines. Topics will vary. May be taken twice with different topics and consent of department for a maximum of six credit hours.		
ENGL 5391	Special Topics in Language and Literature	3 cr.
Prerequisite for ENGL 4391: consent of department.		
Topic will vary from semester to semester. May be taken twice with different topics and consent of department for a maximum of six credit hours.		
ENGL 5401	Literature of England in the Later Middle Ages	3 cr.
Readings in the works of Langland, Gower, Malory, and the "Pearl Poet" and in other works of the period between 1100 and 1500.		
ENGL 5421	Chaucer	3 cr.
The Canterbury Tales.		
ENGL 5521	Shakespeare	3 cr.
The earlier plays, their background, with some attention to Shakespeare's life and time.		
ENGL 5522	Shakespeare	3 cr.
The later plays, with particular emphasis on the author's development.		
ENGL 5601	English Literature Of the Seventeenth Century, 1600-1660	3 cr.
A survey of the literature of the later Renaissance in England, including works by the major prose writers and by the metaphysical, Cavalier, and devotional poets: Bacon, Hobbes, Donne, Jonson, Herrick, Herbert, Milton, and Marvell.		
ENGL 5616	Drama of the Age of Shakespeare	3 cr.

Shakespeare's contemporaries and immediate successors to 1642.

ENGL 5621	Milton	3
cr. A study of the poems with emphasis on Paradise Lost, Paradise Regained, and Samson Agonistes and an examination of various prose works.		
ENGL 5701	Restoration and Early Eighteenth Century Literature	3 cr.
Prose and poetry from the Restoration to the death of Pope with emphasis on Dryden, Pope, and Swift.		
ENGL 5702	Later Eighteenth Century Literature	3 cr.
Prose and poetry from the death of Pope to 1798 with emphasis on Johnson and his circle.		
ENGL 5715	The Eighteenth Century English Novel	3 cr.
A study of the development and characteristics of the English novel from its beginnings through the time of Austen.		
ENGL 5801	Prose and Poetry of the Early Romantic Period	3 cr.
Writers of the preromantic period; Blake, Wordsworth, Coleridge, and other writers of the period.		
ENGL 5802	Later Romantic Writers	3 cr.
Emphasis on Byron, Shelley, and Keats with some attention to such prose writers as DeQuincey and Hazlitt.		
ENGL 5807	Earlier Victorian Literature	3 cr.
Tennyson, Browning, Macaulay, Carlyle, and their contemporaries.		
ENGL 5808	Later Victorian Literature	3 cr.
Arnold, Swinburne, Morris, Rossetti, Pater, Stevenson, and contemporaries to 1900.		
ENGL 5815	The Nineteenth Century English Novel	3 cr.
A study of the English novel from Austen to Conrad.		
ENGL 5913	Early Twentieth Century Poetry	3 cr.
Modern English and American poetry to 1945.		
ENGL 5914	Contemporary Poetry	3 cr.
English and American poetry since 1945.		
ENGL 5915	The Modern Novel	3 cr.
A study of the novel from 1900 to 1945.		
ENGL 5916	Twentieth Century Drama	3 cr.
Modern and Contemporary European, English, and American Drama.		
ENGL 5917	The Contemporary Novel	3 cr.
A study of the novel since 1945.		
ENGL 5918	Creative Nonfiction Literature	3 cr.
A study of creative nonfiction literature, including such subgenres as personal essays, literary journalism, profiles, writing about the natural world, travel writing and memoir.		
ENGL 6001	Studies in American Literature Before 1865	3 cr.
Advanced study of American literature from the Pre-Colonial period to the end of the Civil War. May be taken 2 times for a maximum of 6 credit hours		
ENGL 6007	Studies in American Literature Since 1865	3 cr.
Advanced study of American literature from the end of the Civil War to the present. May be taken 2 times for a maximum of 6 credit hours		
ENGL 6090	Special Studies in American Literature	3 cr.
Advanced study of a special topic or topics in American literature. May be taken 2 times for a maximum of 6 credit hours.		

ENGL 6151	Writing Institute	3 min. cr. - 6 max. cr.
(EDCI 6020 and ENGL 6151 are cross-listed) Offered during the summer session only. An invitational workshop designed for teachers interested in improving writing, theirs and their students'. An intensive exploration of the research and practice in the field. Section number will correspond with credit to be earned.		
ENGL 6154	Non-Fiction Writing Workshop	3 cr.
A workshop in advanced non-fiction writing. May be repeated for credit.		
ENGL 6161	Writing Fiction	3 cr.
Admission by permission of the department. Training in the writing of short stories and novels. May be repeated for credit.		
ENGL 6163	Writing Poetry	3 cr.
Admission by permission of the department. Training in the writing of poetry. May be repeated for credit.		
ENGL 6171	Intensive Fiction Writing	3 cr.
Admission by permission of the department. Training in the writing of short stories and novels, taught in an intensive (short term) format, in residence. May be repeated for credit.		
ENGL 6173	Intensive Poetry Writing	3 cr.
Admission by permission of the department. Training in the writing of poetry, taught in an intensive (short term) format, in residence. May be repeated for credit.		
ENGL 6174	Intensive Non-Fiction Writing Workshop	3 cr.
A workshop in advanced non-fiction writing, taught in an intensive (short term) format, in residence. May be repeated for credit with consent of department.		
ENGL 6191	Remote Fiction Writing	3 cr.
Admission by permission of the department. Training in the writing of short stories and novels taught via distance learning techniques. May be repeated for credit.		
ENGL 6193	Remote Poetry Writing	3 cr.
Admission by permission of the department. Training in the writing of poetry taught via distance learning techniques. May be repeated for credit.		
ENGL 6194	Remote Non-Fiction Writing Workshop	3 cr.
A workshop in advanced non-fiction writing taught via distance-learning techniques. May be repeated for credit with consent of department.		
ENGL 6230	Premodern Sources of English Literature	3 cr.
A survey of the ancient and medieval texts that have most profoundly influenced the English literary tradition.		
ENGL 6231	Literary Theory	3 cr.
The discipline and practice of literary theory. The course will focus on twentieth-century developments in the field.		
ENGL 6232	Modern Rhetoric & Composition	3 cr.
Developments in Modern Rhetoric and Composition.		
ENGL 6240	Nonfiction	3 cr.
Study of the genres of nonfiction.		
ENGL 6243	Poetry	3 cr.
Study of poetry as a genre.		
ENGL 6245	The Novel	3 cr.
Study of the novel as a genre.		
ENGL 6246	Drama	3 cr.
Study of drama as a genre.		
ENGL 6247	The Short Story	3 cr.

Study of the short story as a genre.

ENGL 6280	Introduction to Graduate Studies in English	3 cr.
An introduction to English literary study at the graduate level, including practice in writing essays and in doing research on literature.		
ENGL 6281	Introduction to Composition Studies Theory and Practice	3 cr.
ENGL 6370	Studies in Comparative Literature	3 cr.
Topic will vary from semester to semester. May be taken 2 times for a maximum of 6 credit hours.		
ENGL 6390	Special Studies in Language and Literature	3 cr.
May be taken 2 times for a maximum of 6 credit hours.		
ENGL 6397	Directed Study	3 cr.
Readings, conferences, reports, and a research paper under the direction of a member of the graduate faculty. The student defines the topic in consultation with the faculty member and then obtains approval of the Coordinator of Graduate Studies in English. May be repeated once for credit.		
ENGL 6398	Internship In English	3 cr.
A course emphasizing writing skills in internships in local industrial, business, and government agencies.		
ENGL 6400	Studies in English Literature Before 1500	3 cr.
Advanced study of English literature of the medieval period.		
ENGL 6500	Studies in English Literature of the Sixteenth Century	3 cr.
Advanced study of English literature of the age of Henry the Eighth and Queen Elizabeth.		
ENGL 6520	Studies in Shakespeare	3 cr.
Advanced study of Shakespearean poetry or drama.		
ENGL 6600	Studies in English Literature of the Seventeenth Century	3 cr.
Advanced study of English poetry, prose and drama from the age of the accession of James I until the Restoration.		
ENGL 6700	Studies in English Literature of the Eighteenth Century	3 cr.
Advanced study of English literature from 1660 to 1800.		
ENGL 6801	Studies in the Romantic Period	3 cr.
Advanced study of English literature of the Romantic Period.		
ENGL 6807	Studies in the Victorian Period	3 cr.
Advanced study of English literature of the Victorian Age.		
ENGL 6900	Studies in English Literature of the Twentieth Century	3 cr.
Advanced study of English literature of the Twentieth Century.		
ENGL 7000	Thesis Research	1 min. cr. - 9 max. cr.
To be repeated for credit until thesis is accepted. Section number will correspond with credit to be earned.		
ENGL 7040	Examination or Thesis Only	0 cr.
No credit. Open to students in a thesis program who have only (other than application for degree) the final typing and acceptance by the Graduate School of their thesis or dissertation or to students in a non-thesis program who have only (other than application for degree) to pass the final examination to complete graduation requirements.		

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## Film and Theatre Arts

### FTA 1000 Theater Appreciation

3 cr.

Offered every semester. An appreciation and analysis of theatre. Focus is on the artists and technicians who create theatre and the components involved in the production process. The course does not involve the actual production of a play or performance. FTA majors cannot receive degree credit for both FTA 1000 and FTA 1005.

### FTA 1005 Introduction to Theatre Arts

3 cr.

Study of different types of plays from the ancient Greek theatre to the present. Emphasis on interpreting scripts for the stage. Course is designed primarily for students with a focus in theatre arts. FTA majors cannot receive degree credit for both FTA 1000 and FTA 1005.

### FTA 1100 Methods and Materials of Stagecraft

3

cr.

Practical projects in stagecraft, including carpentry, painting, electrics, sheet metal, cold metal, welding, and stage machinery.

### FTA 1110 Basic Visual Design

3

cr.

An introduction to the elements and principles of design with emphasis on analysis, evolution of form, and composition.

### FTA 1300 Acting I-Beginning

3

cr.

An introduction to the art of acting through training imagination, discipline, body, and voice of the beginning actor. Emphasis is on improvisation, exercises related to specific acting techniques, auditions, and scene study.

### FTA 1310 Stage Makeup

3 cr.

Offered only in fall semester. Prerequisite: consent of department. The study and practice in the techniques of types and styles of makeup for the stage and screen.

### FTA 1620 Intro to Film Arts

3

cr.

This course is required for all FTA Film Arts Options majors and is restricted to FTA majors. Non-FTA majors may enroll only with permission of the department. An introductory course in film arts that explores visual, audio and narrative elements that are essential to understanding how films communicate.

### FTA 1800 Theatre Practicum I

1 cr.

Prerequisite: FTA 1100. Practical experience in production for the theatre. May be taken 3 times for a maximum of 3 credits.

### FTA 2000 Field Research in the Arts

1 min. cr. - 3

max. cr.





semesters only. May be taken 2 times for 6 credit hours.

- |                                                                                                                                                                                                                                                                                                                                                                                                                |                                        |                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|-------------------------|
| FTA 3400                                                                                                                                                                                                                                                                                                                                                                                                       | Cultural Diversity in Film & Theatre   | 3 cr.                   |
| An introduction to and survey of the evolution of cultural diversity in film and on the stage. Representative screen and stage examples will be presented. Students will be required to view films and stage productions outside of regularly scheduled class meetings.                                                                                                                                        |                                        |                         |
| FTA 3460                                                                                                                                                                                                                                                                                                                                                                                                       | Introduction to Documentary Production | 3 cr.                   |
| Prerequisites: FTA 2510 and FTA 2565 or consent of department. An introduction to the fundamentals of writing, producing, directing, and editing the documentary film. Students develop an understanding of the aesthetic dimensions of documentary film and learn the craft of documentary film making through production assignments, critiques, and film analysis. Three hours lecture and three hours lab. |                                        |                         |
| FTA 3510                                                                                                                                                                                                                                                                                                                                                                                                       | Intermediate Film Production           | 3 cr.                   |
| Prerequisites: FTA 2510 and 2565, or consent of department. Must be taken concurrently with FTA 3511 Equipment Lab. Intermediate-level film making involving double-system motion picture production techniques. Students produce and direct professional double-system motion pictures using various capturing formats. Three hours lecture and three hours laboratory each week.                             |                                        |                         |
| FTA 3511                                                                                                                                                                                                                                                                                                                                                                                                       | Equipment Lab                          | 1 cr.                   |
| Prerequisite: Consent of department. The course is to be taken concurrently with FTA 3510. Students will receive hands-on training in the usage of the film production equipment required for FTA 3510.                                                                                                                                                                                                        |                                        |                         |
| FTA 3520                                                                                                                                                                                                                                                                                                                                                                                                       | Intermediate Film Post Production      | 3 cr.                   |
| Prerequisite: FTA 3510 or consent of the department. At an intermediate level, each student edits the footage, engineers the audio, and completes the post-production details of the film shot in FTA 3510. Three hours of lecture and three hours of laboratory each week.                                                                                                                                    |                                        |                         |
| FTA 3800                                                                                                                                                                                                                                                                                                                                                                                                       | Production Practicum                   | 1 min. cr. - 2 max. cr. |
| Prerequisite: FTA 1800 and consent of department. Advanced practical experience in production for the theatre. May be taken for a maximum of 6 credit hours.                                                                                                                                                                                                                                                   |                                        |                         |
| FTA 4080                                                                                                                                                                                                                                                                                                                                                                                                       | Advanced Summer Theatre Workshop       | 3 cr.                   |
| Study and participation in UNO summer theatre productions, including lectures, discussion, and practical experience. May be repeated for credit.                                                                                                                                                                                                                                                               |                                        |                         |
| FTA 4081                                                                                                                                                                                                                                                                                                                                                                                                       | Advanced Summer Theatre Workshop       | 3 cr.                   |
| Study and participation in UNO summer theatre productions, including lectures, discussion, and practical experience. May be repeated for credit.                                                                                                                                                                                                                                                               |                                        |                         |
| FTA 4090                                                                                                                                                                                                                                                                                                                                                                                                       | Special Topics in Film and Theatre     | 1 cr.                   |
| Prerequisite: consent of department. Topics vary from semester to semester. May be taken 3 times for a maximum of 3 credit hours. A maximum total number of 6 credit hours may be earned from the entire Special Topics group 4090-5.                                                                                                                                                                          |                                        |                         |
| FTA 4091                                                                                                                                                                                                                                                                                                                                                                                                       | Special Topics in Film and Theatre     | 1 cr.                   |
| Prerequisite: consent of department. Topics vary from semester to semester. May be taken 3 times for a maximum of 3 credit hours. A maximum total number of 6 credit hours may be earned from the entire Special Topics group 4090-5.                                                                                                                                                                          |                                        |                         |
| FTA 4092                                                                                                                                                                                                                                                                                                                                                                                                       | Special Topics in Film and Theatre     | 1 cr.                   |
| Prerequisite: consent of department. Topics vary from semester to semester. May be taken 3 times for a maximum of 3 credit hours. A maximum total number of 6 credit hours may be earned from the entire Special Topics group 4090-5.                                                                                                                                                                          |                                        |                         |
| FTA 4093                                                                                                                                                                                                                                                                                                                                                                                                       | Special Topics in Film and Theatre     | 1 cr.                   |
| Prerequisite: consent of department. Topics vary from semester to semester. May be taken 3 times for a maximum of 3 credit hours. A maximum total number of 6 credit hours may be earned from the entire Special Topics group 4090-5.                                                                                                                                                                          |                                        |                         |

FTA 4094	Special Topics in Film and Theatre	1 cr.
Prerequisite: consent of department. Topics vary from semester to semester. May be taken 3 times for a maximum of 3 credit hours. A maximum total number of 6 credit hours may be earned from the entire Special Topics group 4090-5.		
FTA 4095	Special Topics in Film and Theatre	1 cr.
Prerequisite: consent of department. Topics vary from semester to semester. May be taken 3 times for a maximum of 3 credit hours. A maximum total number of 6 credit hours may be earned from the entire Special Topics group 4090-5.		
FTA 4096	Special Topics in Film and Theatre	3 cr.
Prerequisite: consent of department. The course will meet for three hours of lecture and three hours of laboratory each week. Topics will vary from semester to semester. The course may be taken 2 times for a maximum of 6 credit hours.		
FTA 4110	Scene Design	3 cr.
Prerequisite: FTA 2120. Principles and techniques of scenic design, including the planning and execution of the design. May be taken 2 times for a maximum of 6 credits.		
FTA 4120	Scene Painting	3 cr.
Prerequisite: FTA 1110. Practical experience and studio projects in painting scenery for the theatre. Four to six laboratory hours per week required. May be taken 2 times for a maximum of 6 credits.		
FTA 4125	Development of Style and Form	3 cr.
Prerequisite: FTA 1110. A study of the history of theatrical design styles including architectural form from Greek influences to the present, and individual research projects and presentations relating to the periods and styles of art.		
FTA 4135	Rendering Techniques	3 cr.
An exploration of styles and techniques for rendering designs for scenery, costumes, and lights.		
FTA 4140	Costume Design	3 cr.
Principles and techniques for the design of costumes, including the planning and execution of the design. Four to six hours per week required in studio design projects.		
FTA 4150	Development of Fashion	3 cr.
A study of Western fashion from the Greek period to the late 19th century. Emphasis on exploring why and how fashion changed and developed, and how society, fashion and culture influenced each other. The shapes, silhouettes and lines of the clothing from each period will be studied.		
FTA 4160	Lighting Crafts and Techniques	3 cr.
Prerequisite: FTA 2100. Basic principles and techniques for use of lighting instruments, filters, and control technology. Three to six laboratory hours per week required in current departmental productions in addition to lecture.		
FTA 4170	Lighting Design	3 cr.
Prerequisites: FTA 2100. Studio and theoretical projects in the design and execution of lighting for the theatre and practical experience working on departmental productions. May be taken 2 times for a maximum of 6 credits.		
FTA 4200	Advanced Playwriting	3 cr.
Prerequisite: FTA 2200 or consent of department. Advanced studies in play writing. Writing of original scripts for possible production. May be taken 2 times for a maximum of 6 credit hours.		
FTA 4251	Advanced Screenwriting	3 cr.
Prerequisite: FTA 2250 or 2260 or consent of department. Advanced studies in writing original scripts for film. May be taken 2 times for a maximum of 6 credit hours.		
FTA 4265	Computer Aided Drafting and Design for the Performing Arts	3 cr.
A course for students with a background in technical production for theater, film, and video. Students will learn how to use the computer to aid in drawing, drafting, designing, and printing their work. The class is a combination of lecture and laboratory.		

FTA 4300	Advanced Voice for the Actor	3 cr.
Prerequisite: FTA 1300 or consent of department. Advanced work in vocal artistry for the actor. May be repeated once for credit. Attention is given to work in oral characterization ethnic dialects historical modes and styles of delivery and special vocal problems such as the actor-singer and the actor in chorus reading.		
FTA 4301	Voice Stylization for the Screen	3 cr.
Restricted course: consent of department. Practicum in the creation of stylized voice characterization for digital media. Students will apply characterizations to voiceover and lip-sync recording techniques for animation and television commercials. Two hours lecture and two hours lab.		
FTA 4330	Acting Styles	3 cr.
Prerequisite: FTA 2330 or consent of department. Examination of actor's methods of characterization and script analysis applied to major styles of theatre. Content of course varies. May be taken 2 times for a maximum of 6 credit hours.		
FTA 4333	Combat for Stage and Film	3 cr.
Prerequisite: FTA 1300. Performance class that allows the student to learn the fundamentals for hand-to-hand combat techniques. These techniques will be taught within an atmosphere of safety that is essential for the stage.		
FTA 4335	Audition Techniques	3 cr.
Prerequisites: FTA 2330 or consent of the department. The study of specific audition techniques for stage and screen performers. Emphasis on prepared monologues, cold readings, interviews, picture/resume, and performance contracts. Successful completion if this course satisfies the general degree requirement for oral competency.		
FTA 4380	Stage Directing II - Advanced	3 cr.
Prerequisite: FTA 2380 or consent of department. Intensive study of director's methods of rehearsal techniques, script analysis, casting, and interpretation. Direction of scenes and/or one-act play. May be taken 2 times for 6 credit hours.		
FTA 4400	Development of Theatre	3 cr.
A survey of theatre history.		
FTA 4450	Modern Theatre	3 cr.
Consent of department required for non-FTA majors. Intensive study of the pioneers of the modern stage, from Ibsen and Chekhov through Shaw. Emphasis on plays from a production point of view.		
FTA 4455	Contemporary Theatre	3 cr.
Consent of department required for non-drama majors. Advanced study of the current trends affecting theatre from a local, national and international point of view. These trends will be examined by exploring the literature of the contemporary theatre.		
FTA 4460	Advanced Documentary Production	3 cr.
Prerequisite: FTA 3460 or consent of department. Students produce advanced documentary film projects. Three hours lecture and two hours laboratory. May be taken 2 times for a maximum of 6 credit hours.		
FTA 4500	Film Development and Planning	3 cr.
Prerequisite for FTA 4500: FTA 2250 or FTA 2260, and FTA 3520, or consent of department. Each student will develop creative and visual approaches and pre-production and production plans for a short film project. Three hours of lecture and three hours of lab.		
FTA 4510	Film Production	3 cr.
Prerequisites: FTA 2510 or consent of department. Advanced problems in double-system motion picture production techniques. Students direct professional double-systems motion pictures. Two hours lecture and two hours laboratory each week.		
FTA 4520	Film Postproduction	3 cr.
Prerequisite: FTA 4510 or equivalent. Motion picture production. Students edit, engineer sounds tracks and complete films which were produced in FTA 4510. Two hours lecture and two hours laboratory.		
FTA 4530	Advanced Project in Film Production	3 cr.



FTA 4570	Advanced Film Acting	3 cr.
Prerequisite: FTA 2570 or consent of department. A study in acting before the camera lens emphasizing moment-to-moment techniques. Two hours lecture and two hours lab. May be taken 2 times for 6 credit hours.		
FTA 4575	Advanced Film Postproduction	3 cr.
Prerequisites: FTA 3520 or consent of department. Advanced motion picture editing procedures and techniques. Students edit segments of episodic television and other long-format material using professional techniques and equipment.		
FTA 4580	Film Directing	3 cr.
Prerequisite: FTA 2510 or consent of the department. Advanced training in single camera directing techniques with emphasis on filming the narrative script and on the director's relationship with the actor. Two hours of lecture and two hours of lab.		
FTA 4591	Film Styles and Genres	3 cr.
Prerequisites: FTA 4545 or consent of department. An examination of the Motion Picture in terms of various groupings such as Genre, Style, and Authorship. Topic will differ from semester to semester. A laboratory fee is required for this course. May be taken 2 times for a maximum of 6 credit hours.		
FTA 4600	Film Producing	3 cr.
Prerequisites: FTA 3510 or 6510 (for graduate students) or consent of department. An advanced course about the art and craft of film producing and the role of the producer in the filmmaking process. Three hours of lecture and three hours of lab.		
FTA 4830	Advanced Stage Movement	3 cr.
Study and exercise in the techniques of effective stage movement including compositional creativity, flexibility, and imagination to develop stage presence. May be taken 2 times for a maximum of 6 credit hours.		
FTA 4900	Internship in Film, Theatre and Communication Arts	3 cr.
Prerequisite: consent of department. Interns work with film, theater, and communication -related companies or productions to gain professional experience and class credit. Interns usually work eight or more hours a week at times mutually agreeable to the student and the company. In addition, interns must keep a log of their work and complete written assignments. The intern's work will be evaluated by both the company supervisors and the course instructor. May be taken 2 times for a maximum of 6 credit hours.		
FTA 5080	Advanced Summer Theatre Workshop	3 cr.
Study and participation in UNO summer theatre productions, including lectures, discussion, and practical experience. May be repeated for credit.		
FTA 5081	Advanced Summer Theatre Workshop	3 cr.
Study and participation in UNO summer theatre productions, including lectures, discussion, and practical experience. May be repeated for credit.		
FTA 5090	Special Topics in Film and Theatre	1 cr.
Prerequisite: consent of department. Topics vary from semester to semester. May be taken 3 times for a maximum of 3 credit hours. A maximum total number of 6 credit hours may be earned from the entire Special Topics group 4090-5.		
FTA 5091	Special Topics in Film and Theatre	1 cr.
Prerequisite: consent of department. Topics vary from semester to semester. May be taken 3 times for a maximum of 3 credit hours. A maximum total number of 6 credit hours may be earned from the entire Special Topics group 4090-5.		
FTA 5092	Special Topics in Film and Theatre	1 cr.
Prerequisite: consent of department. Topics vary from semester to semester. May be taken 3 times for a maximum of 3 credit hours. A maximum total number of 6 credit hours may be earned from the entire Special Topics group 4090-5.		
FTA 5093	Special Topics in Film and Theatre	1 cr.
Prerequisite: consent of department. Topics vary from semester to semester. May be taken 3 times for a		







FTA 5568	Special Topics in Visual Effects	3 cr.
Prerequisite: FTA 2510, FTA 4565 and the consent of the department. An intensive exploration of the current and emerging technology and software necessary for the creation of the current media visual effects. May be repeated.		
FTA 5570	Advanced Film Acting	3 cr.
Prerequisite: FTA 2570 or consent of department. A study in acting before the camera lens emphasizing moment-to-moment techniques. Two hours lecture and two hours lab. May be taken 2 times for 6 credit hours.		
FTA 5575	Advanced Film Postproduction	3 cr.
Prerequisites: FTA 3520 or consent of department. Advanced motion picture editing procedures and techniques. Students edit segments of episodic television and other long-format material using professional techniques and equipment.		
FTA 5580	Film Directing	3 cr.
Prerequisite: FTA 2510 or consent of the department. Advanced training in single camera directing techniques with emphasis on filming the narrative script and on the director's relationship with the actor. Two hours of lecture and two hours of lab.		
FTA 5591	Film Styles and Genres	3 cr.
Prerequisites: FTA 4545 or consent of department. An examination of the Motion Picture in terms of various groupings such as Genre, Style, and Authorship. Topic will differ from semester to semester. A laboratory fee is required for this course. May be taken 2 times for a maximum of 6 credit hours.		
FTA 5600	Film Producing	3 cr.
Prerequisites: FTA 3510 or 6510 (for graduate students) or consent of department. An advanced course about the art and craft of film producing and the role of the producer in the filmmaking process. Three hours of lecture and three hours of lab.		
FTA 5830	Advanced Stage Movement	3 cr.
Study and exercise in the techniques of effective stage movement including compositional creativity, flexibility, and imagination to develop stage presence. May be taken 2 times for a maximum of 6 credit hours.		
FTA 5900	Internship in Film, Theatre and Communication Arts	3 cr.
Prerequisite: consent of department. Interns work with film, theater, and communication -related companies or productions to gain professional experience and class credit. Interns usually work eight or more hours a week at times mutually agreeable to the student and the company. In addition, interns must keep a log of their work and complete written assignments. The intern's work will be evaluated by both the company supervisors and the course instructor. May be taken 2 times for a maximum of 6 credit hours.		
FTA 6001	Practicum in Production	3 cr.
Participation in weekly seminar and independent practical work in acting, design, directing, stage management, cinematography, and television.		
FTA 6005	Graduate Studies Orientation	0 cr.
No credit. Required on-line colloquium for all DRCM graduate students each semester until graduation. Electronic communication and dispersal of information via blackboard that is pertinent to first, second, and third year graduate students in the department.		
FTA 6020	Form and Idea in the Media	3 cr.
An exploration of the relationship between the creative idea, the form of its expression and the medium for its presentation. Examples will be studied from theatre, film and television. The collaboration of the contributing artists will be investigated and the process of script analysis, directing methods, and production techniques for the different media will be compared and contrasted.		
FTA 6040	Performance and Direction	3 cr.
Prerequisite: Consent of department. This practicum is designed to encourage and expand creative and collaborative opportunities between theatre and film artists. By focusing on selected interdisciplinary scene work, the course will identify and explore the shared principles utilized in the acting and directing process of stage and screen,		

FTA 6060	Concept, Conflict & Character	3
	cr.	
	Prerequisite: Consent of department. A study of the fundamentals of script analysis as they relate to the director's formulation of concept, identification of conflict and understanding of character behavior. Focusing on selected film and play scripts, lectures and seminars will emphasize the application of similar methodologies employed by directors and actors in both film and theatre.	
FTA 6090	Directed Independent Study	3 cr.
	Prerequisite: consent of department. Specialized research or creative work in film or theater. This course may be taken 2 times for a maximum of 6 credit hours.	
FTA 6110	Seminar in Scenic Design	3
	cr.	
	Advanced studies, research, and practice of scene design for the theatre, which will include portfolio development, study of contemporary trends, examination of current job opportunities and requirements, and designing scenery for a specific production. May be taken 2 times for a maximum of 6 credit hours.	
FTA 6120	Scene Painting	3 cr.
	Prerequisite: FTA 4110 and 4120. Through studio projects students will develop skills in painting of architectural and natural styles of stage scenery. Four to six laboratory hours per week are required.	
FTA 6135	Rendering Techniques	3
	cr.	
	An exploration of styles and techniques for rendering designs for scenery, costumes, and lights. May be taken 2 times for a maximum of 6 credit hours.	
FTA 6140	Seminar in Theatrical Costuming	3 cr.
	Studies and practice in modern costume techniques which will include portfolio preparation, contemporary techniques, and a survey of current job practices and marketability. May be taken 2 times for a maximum of 6 credit hours.	
FTA 6150	Development of Fashion	3 cr.
	The study of Western fashion from the Greek period to the late 19th Century. Emphasis on exploring why and how fashion changed and developed and how society, fashion and culture influenced each other. The shapes, silhouettes and lines of clothing from each period will be studied.	
FTA 6170	Seminar in Lighting Design	3 cr.
	Studies and practice in modern lighting techniques, which will include portfolio preparation, contemporary techniques in design, and a survey of current job practices and marketability. May be taken 2 times for a maximum of 6 credit hours.	
FTA 6200	Seminar in Playwriting	3 cr.
	Prerequisite: FTA 4200 or consent of department. Studies and practice in writing plays for the live theatre stage. Students should have written at least one play before enrolling in this class. May be repeated for credit.	
FTA 6207	Intensive Seminar in Playwriting	3 cr.
	Prerequisite: FTA 4200 or consent of department. Studies and practice in writing plays for the live theatre stage, taught in an intensive (short term) format in residence. Students should have written at least one play before enrolling in this class. May be repeated for credit.	
FTA 6209	Remote Seminar in Playwriting	3 cr.
	Prerequisite: FTA 4200 or consent of the department. Studies in practice in writing plays for the live theatre stage taught via distance learning techniques. Students should have written at least one play before enrolling in this class. May be repeated for credit.	
FTA 6220	Screenwriting for Production	3 cr.
	Production-oriented screenwriting for first-year graduate students. Students develop and write short screenplays to be produced over the coming semesters in the film program. Instruction in the essential principles of screenwriting in a workshop setting.	
FTA 6240	Writing the Thesis Script	3 cr.

Production-oriented screenwriting for second-year graduate students in the film program. Students continue to learn the craft of screenwriting while writing the screenplay for their MFA thesis project.

FTA 6250 Seminar in Screenwriting 3 cr.

Prerequisite: FTA 4500 or 4251 or consent of department. Studies and practice in writing scripts for film and television. Students should have written at least one screenplay before enrolling in this class. May be taken 2 times for a maximum of 6 credit hours.

FTA 6257 Intensive Seminar in Screenwriting 3 cr.

Prerequisite: FTA 4200 or 4521 or consent of department. Studies and practice in writing scripts for film and television taught in an intensive (short term) format in residence. Students should have written at least one screenplay before enrolling in this class. May be repeated for credit.

FTA 6259 Remote Seminar in Screenwriting 3 cr.

Prerequisite: FTA 4200 or consent of department. Studies and practice in writing scripts for film and television, taught via distance learning techniques. Students should have written at least one screenplay before enrolling in this class. May be taken 2 times for a maximum of 6 credit hours.

FTA 6330 Acting 3 cr.

Prerequisite: consent of department. Designed for students in the MFA Performance Program. Intensive training in characterization and performance techniques. Content of course varies per offering. May be taken 4 times for a maximum of 12 credit hours.

FTA 6380 Stage Directing 3 cr.

Prerequisite: consent of department. Designed for students in the MFA Performance Program. Intensive training in directing techniques. May include technical assignments in department productions. Direction of one-act or full length play in laboratory production. May be taken 3 times for a maximum of 9 credit hours.

FTA 6510 Narrative Film Production 3 cr.

Studies and practices in producing and shooting double-system narrative film projects. Students should have basic courses in post-production, screenwriting and production prior to enrolling. Must be taken concurrently with FTA 6511, Equipment Lab.

FTA 6511 Equipment Lab 1 cr.

This course must be taken concurrently with FTA 610. In this course the student will be given hands-on instruction and training on how to use cameras, lighting instruments, sound recording equipment, grip hardware, and other relevant equipment for FTA 6510.

FTA 6520 Narrative Film Post Production 3 cr.

Prerequisite: FTA 6510 or consent of department. Advanced problems in double-system motion picture post-production techniques. Students edit, engineer sound tracks and complete films which were produced in FTA 6510. Two hours lecture and one hour laboratory each week.

FTA 6560 Directing the Documentary Film 3 cr.

Prerequisite: Consent of department. Students direct and produce graduate-level documentary film projects. May be taken 2 times for a maximum of 6 credit hours.

FTA 6565 Digital Theory Application 3 cr.

Course examines how the measurable physical characteristics of audio and video are represented as digital data. This is coupled with an introduction to the major software packages that are used to manipulate digital sound and images. Students will participate in instructor led practical sessions designed to familiarize them with digital systems and software and with the role and function of each in the post-production process. Students who have previously taken FTA 4565G may not take FTA 6565 for credit.

FTA 6580 Film Directing 3 cr.

Prerequisite: Consent of Department. A study of directing techniques with emphasis on filming the narrative script and on the director's relationship with the actor.

FTA 6610 Seminar in Film Arts 3 cr.

Study of the meaning and impact of film as an art form. Students will analyze film theory and its application to production. Specific focus will reflect current trends in film. May be taken 2 times for a maximum of 6 credit hours.

FTA 6830 Seminar in Stage Movement 3 cr.

An examination and practice of various techniques of stage movement for the performer. May include dance, gymnastics, and stage combat. Material varies each semester. May be taken 2 times for a maximum of 6 credit hours.

FTA 6900 Graduate Internship 3 cr.

This Graduate Internship is offered within the Department's film and theatre programs. Candidates serve in a leadership capacity in production or administrative activity directly related to the Department's MFA production program. The student is expected to devote 12 hours per week in production related responsibilities. May be taken 2 times for a maximum of 6 credit hours.

FTA 6910 Studio I 3 cr.

Prerequisite: consent of department. Independent work in theatrical or media production.

FTA 6911 Studio II 3 cr.

Prerequisite: consent of department. Independent work in theatrical or media production.

FTA 6912 Studio III 3 cr.

Prerequisite: consent of department. Independent work in theatrical or media production.

FTA 7000 Thesis Research 1 min. cr. - 9 max. cr.

Creative or written project. To be repeated for credit until thesis is accepted. Section number will correspond with credit to be earned.

FTA 7040 Examination or Thesis Only 0 cr.

Open to students in a thesis program who have only (other than application for degree) the final typing and acceptance by the Graduate School of their thesis or dissertation or to students in a non-thesis program who have only (other than application for degree) to pass the final examination to complete graduation requirements.



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## Finance

### FIN 1330 Personal Finance

3 cr.

(Not open to students enrolled in the College of Business Administration who have completed 60 semester hours or more of university credit.) Survey course that covers the following areas: a financial health program, budgeting, consumer protection, housing, insurance program, investment portfolio, other potential investments, taxes, and estate planning. The impact of personal finance on the economy will also be examined.

### FIN 2302 Introduction to Investing

3 cr.

Offered each semester. The course provides an overview of investment opportunities in financial instruments such as common stocks, preferred stocks, government and corporate bonds, rights, warrants, convertibles, options, futures, and mutual funds.

### FIN 2335 Principles of Real Estate

3 cr.

Offered each semester. The principles of purchasing, owning, and operating real estate relative to interest in realty, liens, contracts, deeds, titles, leases, brokerage, and management.

### FIN 3099 Senior Honors Thesis

max. cr.

1 min. cr. - 6

Offered each semester. Prerequisite: consent of department and Honors Program Director. Senior honors thesis under the direction of a faculty member. Section number will correspond with credit to be earned. Must be repeated for a total of six credit hours to be eligible to graduate with honors.

### FIN 3300 Principles of Financial

Management

3 cr.

Offered each semester. Prerequisites: ECON 1203 or ECON 2200, and ACCT 2100. Introduction to investment, financing, and dividend decisions of business firms. Topics include valuation, capital budgeting, working capital management, capital structure and cost of capital, sources of financing, and dividend policy.

### FIN 3301 Small Business Finance

cr.

3

This course applies the skills of financial analysis to the particular problem of financing new ventures and existing small businesses. Specific topics covered include legal forms of organization and how they affect financing alternatives, ratio analysis, identifying and evaluating sources of small business financing, buying existing small businesses, financing growth and diversification, and dealing with bankruptcy and liquidation. Emphasis is placed on the evaluation and preparation of financing packages for securing financing from banks, ventured capital investors and government agencies.

### FIN 3302 Investments

cr.

3

Offered each semester. Prerequisite: FIN 3300 or ECON 2000. Fundamental information regarding the organization, regulation, and performance of securities in the various markets and financial instruments.

FIN 3303	Financial Institutions	3
	cr.	
	Prerequisite: ECON 2221 and FIN 3300. Study of the impact of financial institutions on both the total level of economic activity and the allocation of funds to various sectors of the economy. Analysis of the intermediary process and the determination of interest rates in the financial markets.	
FIN 3321	Bank Administration	3
	cr.	
	Prerequisites: ECON 2221 and FIN 3300. The financial management of the commercial bank from the perspective of senior management. An internal analysis of bank portfolio construction, bank capital structure, the lending function, and other decisions of the financial manager that affect the value of the bank.	
FIN 3366	Income Property Analysis	3
	cr.	
	A study of valuation and appraisal methods for commercial, industrial, residential, and other income properties. Included will be the problems of real estate development, redevelopment, and property taxation.	
FIN 3368	Real Estate Finance	3
	cr.	
	Issues and problems in the administration of real estate mortgages; sources and uses of mortgage funds, including land acquisition, construction, permanent, and secondary financing; cost of funds, mortgage yields and accompanying risk; federal and state role in mortgage markets.	
FIN 3391	Undergraduate Directed Individual Study	3 cr.
	(ECON 4291 and FIN 4391 are cross-listed) Offered each semester. Prerequisites: Approval of the directed individual study by the department chair and the supervising professor is required prior to registration. The student should refer to the College of Business Administration Policy On Undergraduate Directed Individual Study available in the Department of Economics and Finance. This course is arranged individually in order to provide latitude for specialized study and research under the direction of a faculty member. Progress reports, readings, conferences, and a research paper are required. May be repeated.	
FIN 3392	Internship in Finance	3 cr.
	Prerequisites: BA 2780, QMBE 2786, and FIN 3300 and consent of department. Student intern is engaged in ten hours per week at the site of an assigned participating organization which directs the intern in a specific research project. Students wishing to take this course should apply a semester in advance since enrollment is limited by internships available.	
FIN 4304	Finance Capstone	3 cr.
	Offered each semester. Prerequisites are Finance 3302, Finance 3303 or Finance 3321, and senior standing. Emphasis on financial decision-making that requires integrating the core finance areas of corporate finance, investments, portfolio management, and financial institutions. This course is not open to graduate students.	
FIN 4306	International Finance	3
	cr.	
	(ECON 4306 and FIN 4306 are cross-listed) Prerequisite: ECON 1203 and 1204 or ECON 4400 and FIN 4400 or 3300. This course examines the financial operations of the firm from an international point of view. It draws upon topics such as exchange rate determination, foreign exchange exposures (risks) for the multinational firm and techniques to hedge such exposures, international bond, equity and currency markets, trade documentation, and international capital budgeting. This course will cover the following Candidate Body of Knowledge (CBOK) sections from the Chartered Financial Analyst CFA Program: CBOK Section III, J. International Finance. Students may not receive graduate credit for both ECON 4306, and FIN 6309.	
FIN 4307	Portfolio Analysis	3 cr.
	Prerequisite: FIN 3302 or FIN 6300 and QMBE 2786, or consent of department. Demonstration of portfolio analysis techniques used by individuals and institutions. The course will cover the following Candidate Body of Knowledge (CBOK) sections from the Chartered Financial Analyst CFA Program: CBOK Section VI. Analysis of Equity Investments, CBOK Section VII. Analysis of Debt Investments, CBOK Section X. Portfolio Management, and CBOK Section II.J. Portfolio Concepts.	

FIN 4308	Derivatives Analysis	3
	cr.	
	Prerequisite: FIN 3302 or FIN 6300 and QMBE 2786 or consent of department. An examination of the organization structure of speculative markets and the performance of speculative assets. Topics include the institutional nature of options and futures markets; investment and hedging strategies; and the valuation of options on stocks, interest rates, and futures contracts as well as the analysis of commodity, interest rate, stock index, and foreign exchange futures prices. The course will cover the following Candidate Body of Knowledge (CBOK) sections from the Chartered Financial Analyst CFA Program: CBOK Section VIII. Analysis of Derivatives.	
FIN 4310	Personal Financial Planning	3 cr.
	Prerequisite: FIN 3300 or FIN 4400. An examination of a broad range of topics in personal financial planning including: client interactions, time value of money applications, personal financial statements, cash flow and debt management, asset acquisition, education planning, overview of risk management investment planning and retirement planning, special circumstances, plan integration, ethics, and the business of financial planning.	
FIN 4311	Insurance Planning and Risk Management	3 cr.
	Offered each semester. A course focused upon the consumer interest in an interdisciplinary approach to the subjects of pure risk and decision-making with emphasis upon planning family insurance programs. Principal topics include the impact on the family of economic risk, the private insurance mechanism, government benefit programs, and specific types of insurance coverage of importance to the family. Specific attention is focused upon such financial instruments as life insurance, health insurance, automobile insurance, and insurance for the home. Consumer issues related to the private insurance mechanism and government benefit programs are considered. The roles of economic facts and consumer attitudes in making decisions among alternatives also will be explored.	
FIN 4312	Retirement Planning	3 cr.
	Prerequisite: FIN 3300 or FIN 4400. Course provides individuals with knowledge of both public and private retirement plans. The public plans include Social Security, Medicare and Medicaid. The private plans include defined benefit and defined contribution plans and their regulatory provisions. The specifics of the various plans are analyzed as well as non-qualified deferred compensation plans. Finally, issues that individuals face in retirement, such as life-style choices and medical issues are discussed.	
FIN 4322	The Money and Capital Markets	3 cr.
	Prerequisite: ECON 2221. The money and capital markets their composition regulation and operations; their influence in modern business; sources and uses of funds; commercial paper; acceptances; bank loans; call loans; negotiable certificates of deposit; investment banking and the Securities and Exchange Commission; the open market functions and activities of the Federal Reserve System.	
FIN 4370	Real Estate Feasibility and Site Location Analysis	3 cr.
	Prerequisite: one of the following: FIN 2335 or consent of department. A survey of the physical characteristics, market, economic, and financial considerations which enter into the decision process for selecting business locations; allocating land resources among a number of possible revenue producing uses, and analysis of locational considerations on the profitability of the firm. An extensive field research project is an integral part of the course.	
FIN 4400	Financial Foundations for Managers	3 cr.
	An approach to finance principles and practice intended for managerial use. Emphasis will be placed on applying finance principles in managerial decision-making as it concerns the investment, financing, and dividend decisions of business firms. Not open to College of Business undergraduate majors. This course may not be taken for graduate credit.	
FIN 5306	International Finance	3 cr.
	(ECON 4306 and FIN 4306 are cross-listed) Prerequisite: ECON 1203 and 1204 or ECON 4400 and FIN 4400 or 3300. This course examines the financial operations of the firm from an international point of view. It draws upon topics such as exchange rate determination, foreign exchange exposures (risks) for the multinational firm and techniques to hedge such exposures, international bond, equity and currency markets, trade documentation, and international capital budgeting. This course will cover the following Candidate Body of Knowledge (CBOK) sections from the Chartered Financial Analyst CFA Program: CBOK Section III, J. International Finance. Students may not receive graduate credit for both ECON 4306, and FIN 6309.	
FIN 5307	Portfolio Analysis	3 cr.



maintenance of credit-worthiness.

FIN 6302 Investments 3 cr.

Prerequisite: FIN 6300 or 6301. The course provides an analysis of such topics as portfolio theory, capital asset pricing models, Arbitrage Pricing Theory, efficient capital market theory, option pricing theory, futures contracts and markets, and the securities market.

FIN 6303 Financial Markets and Institutions 3 cr.

Prerequisite: FIN 6300 or 6301. An overview of the processes at work within the financial system, its major participants, its procedures for assessing and pricing risk, and its role in the allocation of credit to different financial sectors.

FIN 6309 International Financial Management 3 cr.

Prerequisite: FIN 6300 or 6301 or enrollment in the Master of Science program in Accounting. Geared for the MBA or other graduate students interested in a graduate level course emphasizing the managerial aspects of international finance. Students enrolled in the Ph.D. program in Financial Economics cannot use this course in their graduate program of study, and no students will receive graduate credit for both ECON 4262/FIN 4362 and Finance 6309.

FIN 6311 Theory of Corporate Finance 3 cr.

Prerequisites: Must be a Ph.D. in Financial Economics Student. The course is intended to provide students with a strong foundation for understanding the theoretical and empirical concepts in modern corporate finance. The topics covered in the course include valuation under risk and uncertainty, advanced capital budgeting topics, market efficiency, agency theory and signaling under information asymmetry capital structure theory, dividend policy, corporate control and financial distress. This is a core course for Ph.D. students in financial economics and is not open to MBA students.

FIN 6312 Investment Theory 3 cr.

Prerequisites: Must be a Ph.D. in Financial Economics Student. This course is designed to provide the Ph.D. student with a solid foundation in modern investment theory. This course takes a theoretical approach to the understanding of the following issues: portfolio theory, capital asset pricing model, arbitrage pricing, term structure of interest rates, future options and market efficiency. The review of classic theoretical and supporting empirical finance literature will be emphasized. This course may only be taken by Ph.D. students.

FIN 6313 Seminar in Financial Markets and Institutions 3 cr.

Prerequisites: FIN 6303 and must be a Ph.D. in Financial Economics Student. This course examines the role of financial intermediaries in resolving informational asymmetries in the credit market and promoting economic development. The topics covered in this course include theory of financial intermediation, theory and management of interest rate and exchange rate risk, banking and financial distress, bank regulation and deposit Insurance Contract, off-balance sheet banking system, efficiency of banking system, and financial theory of insurance industry.

FIN 6314 Seminar in Corporate Finance 3 cr.

Prerequisite: FIN 6311. The purpose of the course is to expose the advanced student to a direct reading of journal articles and book chapters in classic works as well as more recent developments in corporate financial theory.

FIN 6315 Seminar in Investments 3 cr.

Prerequisite: FIN 6312. This course exposes students to recent journal articles as well as classic works. Topics selected will be at the discretion of the instructor. Topics will be selected from portfolio theory, capital asset pricing models and the Arbitrage Pricing Theory, efficient capital market theory, option pricing theory, futures contracts and markets, and the securities market.

FIN 6318 Derivative Securities 3 cr.

Prerequisite: FIN 6312. An analysis of derivative financial instruments including forward contracts, futures contracts on commodities, financial assets and indexes, option contracts on financial assets, option contracts on futures, and swap contracts.

FIN 6319 Seminar in International Finance 3 cr.



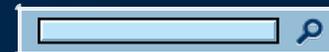
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## Fine Arts

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| FA 1010 Art Appreciation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3 cr.               |
| Offered each semester. Open to all undergraduates. An introduction to art in which the visual elements and principles are examined through a study of the key monuments in the history of art from cave paintings to the present. Important styles of painting, sculpture, architecture, and twentieth century media are explored with attention to the personalities of the artists and the cultures in which they lived.                                                                                                                                                                                                                                                                                                                                       |                     |
| FA 1050 Design Fundamentals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3 cr.               |
| Offered each semester. A study of the elements of design art including color, composition, process, and visual perception with practice in the various traditional media. Primarily for Fine Arts majors. Six hours of studio work.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                     |
| FA 1051 Digital Design                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3                   |
| cr.<br>Offered each semester. A study of the elements of design including color, composition, process, and visual perception with practice in the digital media. Students will work with industry standard and freeware programs. Primarily for Fine Arts majors. Six hours of studio work.                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                     |
| FA 1060 Drawing I                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 3                   |
| cr.<br>Offered each semester. An introduction to basic drawing concepts and media. Six hours of studio work.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |
| FA 1061 Drawing II                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3                   |
| cr.<br>Offered each semester. Prerequisite: FA 1060. Continued exploration of drawing concepts and media with an emphasis on academic and life drawing techniques and experimental approaches. Six hours of studio work.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                     |
| FA 1551 Introduction to Photography for Non-Art Majors                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3 cr.               |
| This course is an introduction to still photography for non-art majors. This class is non-darkroom based and will familiarize students with basic skills of photography. Technical aspects such as camera operation, flash and lighting, exposure, film and film speed selection will be addressed in conjunction with non-technical aspects such as the history of photography, contemporary photography/art, aesthetics and composition, fine art/commercial applications, and the critiquing of images, via weekly lectures and assignments both inside and outside of class. Student must have a least a digital point-and-shoot camera. Six hours of studio work.                                                                                           |                     |
| FA 2000 Field Research in the Arts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1 min. cr. - 3 max. |
| cr.<br>(FTA 2000, FA 2000, and MUS 2000 are cross-listed) Prerequisite: consent of department. Special research project in the arts involving field experience and study outside the city of New Orleans. Advance preparation for the project will include conference with or lecture by the faculty and readings in the specific areas to be studied. The study trip will consist of attendance at a minimum of four theatrical or musical performances or a minimum of eight hours spent in visits to exhibits or museums for each hour of credit. A follow-up paper on a research topic inspired by the trip will be required. May be repeated for up to six hours of credit. Credit will be given for only FTA 2000, FA 2000, or MUS 2000 for the same trip. |                     |

FA 2201 Historical Survey of the Arts	3 cr.
Offered each semester. Prerequisite: satisfactory completion of ENGL 1158. Prehistoric, ancient, classical, and medieval periods. Lectures with slides, films, and readings.	
FA 2202 Art History Survey II	3 cr.
A survey of developments in western European and American art from the early Renaissance to 1900, including concepts of modernism. Lectures with slides, films, and readings.	
FA 2203 Art History Survey III	3 cr.
A survey of developments in western European and American art from 1900 to the present, including the historical avant-garde, postmodern, and contemporary art.	
FA 2215 Monuments of Greek and Roman Art	3 cr.
Prerequisite: satisfactory completion of ENGL 1158. Survey of the major monuments of Greek and Roman Art from the Archaic Period, c. 650 B.C. in Greece to the Early Christian Period, c. 400 A.D. on the Italian peninsula.	
FA 2231 A Survey of the History of Photography	3 cr.
Prerequisite: satisfactory completion of ENGL 1158. A survey of the history of photography and its influence on modern styles from its earliest beginnings to work by contemporary photographers. Emphasis will be on both aesthetic and technical innovations.	
FA 2232 Monuments of Italian Art	3 cr.
Survey of the major monuments in painting, sculpture, and architecture from Italy c. 1400-c. 1580.	
FA 2450 Introduction to Photography	3 cr.
Offered each semester. Photography as a creative medium with introductory study of visual concepts and techniques in using the camera and laboratory as instruments for visual expression. Six hours of studio work.	
FA 2550 Introduction to Digital Art, Video & Animation	3 cr.
Prerequisite: FA 1051 or consent of department. An introduction to the mediums of digital art, video & animation in a Fine Arts setting. Includes projects in stop-motion, digital collage, video, digital drawing and animation. Idea and imagery development and New Media history.	
FA 2650 Introduction to Sculpture	3 cr.
Offered each semester. An introduction to formal and technical problems in sculpture. Emphasis on both traditional and contemporary practice. Demonstrations and discussion. Six hours of studio work.	
FA 2710 Watercolor	3 cr.
Prerequisites: FA 1011, 1012, and 1014. An introduction to watercolor as a Fine Arts medium exploring a sequence of painting problems emphasizing wash drawing, color, and design structure. Discussions and slide talks. Six hours of studio work.	
FA 2750 Introduction to Painting	3 cr.
Offered each semester. An introduction to formal and technical problems of painting and development of fundamental concepts and skills. Class work includes studio projects supplemented by discussions, critiques, slide presentations, field trips, lectures, and outside readings. Six hours of studio work.	
FA 2850 Introduction to Printmaking	3 cr.
Offered each semester. Six hours of studio work. An introduction to printmaking media including intaglio, relief, digital print, and screenprinting.	
FA 3050 Professional Practice	3 cr.
Course will focus on the professional practices and standards that are expected in the visual art profession. Students will gain experience and knowledge with presentation, portfolio development, marketing, career and exhibition opportunities, arts advocacy and graduate school. Class time will be used for in-progress critiques, discussions, lectures, as well as visits to local artists' studios and to galleries and museums.	
FA 3101 Introduction to Web Design	3 cr.
This course introduces students to both the practice of web design and the basic principles of computer platforms.	

The practice component of the course covers not only web design but also current graphics and software tools related to web design. The principles section includes an overview of hardware and software, the history of computers, and a discussion of the impact of computers and the Internet. Open to non-art majors. Six hours of studio work.

FA 3203 Senior Project in Art History 3 cr.

Prerequisites: At least 24 hours in art history courses at the 3000 level or above, including one with at least three of the full-time art history faculty, and consent of department. Independent study resulting in the writing of an advanced research paper. Topic to be determined in consultation with the supervising faculty member. The finished paper will be evaluated by a committee of the art history faculty.

FA 3291 Internship in Fine Arts 3 cr.

Prerequisite: consent of department. Each semester the department makes available a limited number of internships for qualified undergraduates with the City of New Orleans and other public and nonprofit agencies. Interns will work a minimum of eight hours a week at times mutually agreeable to the individual and the agency; some assignments may require more than eight hours a week. In addition, the student must meet regularly with an adviser from the fine arts faculty and the student's work will receive written evaluation from both the agency supervisor and the departmental adviser. FA 3291 and 3292 may not be used as part of the departmental requirement for a nine hour sequence at the 3000 level stipulated in the Studio Art Option.

FA 3292 Internship in Fine Arts 3 cr.

Prerequisite: consent of department. Each semester the department makes available a limited number of internships for qualified undergraduates with the City of New Orleans and other public and nonprofit agencies. Interns will work a minimum of eight hours a week at times mutually agreeable to the individual and the agency; some assignments may require more than eight hours a week. In addition, the student must meet regularly with an adviser from the fine arts faculty and the student's work will receive written evaluation from both the agency supervisor and the departmental adviser. FA 3291 and 3292 may not be used as part of the departmental requirement for a nine hour sequence at the 3000 level stipulated in the Studio Art Option.

FA 3293 Independent Study in Art History 3 cr.

Prerequisites: 12 hours in art history including FA 2201 and 2202 and consent of department. A tutorial arranged individually to provide latitude for specialized study and research on topics not offered in the current curriculum. A member of the art history faculty will arrange a study-research outline with each student in the first tutorial meeting. Weekly progress reports conferences and a research paper are required. FA 3293 may not be used to satisfy the period distribution requirements of the art history major. This course may be repeated once for credit.

FA 3299 Senior Honors Thesis in Art History 3 cr.

Prerequisites: consent of the department and Director of the Honors Program. Directed research leading to the writing of a Senior Honors Thesis. Must be repeated for a total of six credit hours in order to graduate with honors in Art History. Credit for this course will not be counted towards the 12 hours of Art History at the 3000-level or above required for Art History majors. Successful completion of six hours in FA 3299 will be accepted in lieu of FA 3203.

FA 3301 Advanced Drawing 3 cr.

Offered each semester. Prerequisite: FA 1061. Students will execute a major project in the area of photography, prepare a critical analysis of their project, and plan and present a suitable exhibit of the project for review and evaluation by a committee of studio faculty. Six hours of studio work.

FA 3302 Advanced Drawing 3 cr.

Prerequisite: FA 1061. Studio work in drawing with emphasis on studio projects. Six hours of studio work.

FA 3450 Advanced Studio Practice in Photography 3 cr.

Offered each semester. Prerequisite: FA 2450. Advanced work in photographic techniques as a means of pictorial expression. FA 3450 may be taken three times for a maximum of 9 credit hours. Six hours of studio work.

FA 3520 After Effects 3 cr.

A course introducing the use of the program After Effects, including animation, 3D tools, dynamic text and complex motion graphics. In-class studio practice supplemented by discussions, critiques and lectures. Open to non-art majors. Six hours of studio work.

FA 3530 Typography	3 cr.
A course introducing the basic aspects, principles and expressive potential of letterforms and typography. Class work includes traditional and digital projects supplemented by discussions, critiques, lectures and outside readings. Course covers history, communicative abilities and aesthetic issues of typography. Open to non-art majors. Six hours of studio work.	
FA 3550 Advanced Studio in Digital Art, Video & Animation	3 cr.
Prerequisite: FA 2550. Advanced studio work in digital art, video and animation. Six hours of studio work. FA 3550 may be taken three times for a maximum of 9 credit hours.	
FA 3591 Independent Study in Imaging	1 min. cr. - 3 max. cr.
Consent of the instructor required. An individual tutorial for Fine Arts majors to provide for specialized study and research on topics not offered in the current Imaging curriculum. May be repeated for a maximum of 6 hours of credit. Six hours of studio work.	
FA 3592 Interdisciplinary Study in Imaging	1 min. cr. - 3 max. cr.
Consent of the instructor required. An individual tutorial for non-Fine Arts majors to provide for specialized study and research projects in Imaging. May be repeated for a maximum of 6 hours of credit. Six hours of studio work.	
FA 3595 Academic Year Abroad: Special Topics in Fine Arts	3 cr.
This course is only offered through UNO's Academic Year Abroad (AYA) in Innsbruck, Austria and can be repeated once for credit.	
FA 3650 Advanced Studio Practice in Sculpture	3 cr.
Offered each semester. Prerequisite: FA2650. A continuation of the study of formal, technical, and aesthetic problems in sculpture. Assignments will focus on developing each student's art and its relation to the world of sculpture as well as a further expansion of techniques, materials and theories. Demonstration and discussion. FA3650 may be repeated for up to 9 hours of credit. Six hours of studio work.	
FA 3691 Independant Study in Sculpture	1 min. cr. - 3 max. cr.
Consent of the instructor required. An individual tutorial for Fine Arts majors to provide for specialized study and research on topics not offered in the current Sculpture curriculum. May be repeated for a maximum of 6 hours of credit. Six hours of studio work.	
FA 3692 Interdisciplinary Study in Sculpture	1 min. cr. - 3 max. cr.
Consent of the instructor required. An individual tutorial for non-Fine Arts majors to provide for specialized study and research projects in Sculpture. May be repeated for a maximum of 6 hours of credit. Six hours of studio work.	
FA 3750 Advanced Studio Practice in Painting	3 cr.
Offered each semester. Prerequisite: FA 2750. Studio work in painting, with emphasis on the development of a variety of skills, concepts, and materials. Class work includes studio projects supplemented by discussions, critiques, slide presentations, field trips, lectures, and outside readings. FA 3750 may be repeated for up to 9 hours of credit. Six hours of studio work.	
FA 3791 Independent Study in Painting	1 min. cr. - 3 max. cr.
Consent of the instructor required. An individual tutorial for Fine Arts majors to provide for specialized study and research on topics not offered in the current Painting curriculum. May be repeated for a maximum of 6 hours of credit. Six hours of studio work.	
FA 3792 Interdisciplinary Study in Painting	1 min. cr. - 3 max. cr.
Consent of the instructor required. An individual tutorial for non-Fine Arts majors to provide for specialized study and research projects in Painting. May be repeated for a maximum of 6 hours of credit. Six hours of studio work.	
FA 3850 Advanced Studio Practice in Printmaking	3 cr.

Offered each semester. Prerequisite: FA 2450. Advanced studio work in printmaking including intaglio, relief, digital print, and screenprinting. Class work includes studio projects supplemented by discussions, critiques, image presentations, field trips, lectures, and outside readings. Six hours of studio work. FA 3850 may be taken three times for a maximum of 9 credit hours.

FA 4210 African Art 3 cr.

Prerequisite for FA 4210: FA2201, 2202, 2203 for Art History and/or Studio Art majors or minors.

A study of the arts of sub-Saharan Africa. Emphasis is on the form and function of art in African cultures previous to or independent of Westernization.

FA 4234 Late Medieval Art in Italy, 1250-1400 3 cr.

Prerequisite for FA 4234: FA 2201, 2202, 2203 for Art History and/or Studio Art majors or minors.

This course focuses on developments in painting, sculpture, and architecture in late medieval Italy, with a special emphasis on the Tuscan cities of Florence, Siena, and Pisa. Attention will be given to issues of style, regional schools, and typology, to individual artists and artworks and to the examination of the central themes raised in the literature concerning this period (for example, the proto-Renaissance, a "Black-Death" style).

FA 4235 The Art of Quattrocento in Italy 3 cr.

Prerequisite: FA 2201, 2202, 2203 for Art History and/or Studio Art majors or minors. Critical study of developments in painting, sculpture, and graphic media in the major centers of Italy from Ghiberti to Signorelli.

FA 4237 The High Renaissance and Mannerism in Italy 3 cr.

Prerequisite for FA 4237: FA 2201, 2202, 2203 for Art History and/or Studio Art majors or minors.

Recommended as a sequel to FA 4235/5235. Critical study of developments in painting, sculpture, and graphic media in Italy from Leonardo da Vinci to Paolo Veronese.

FA 4238 Architecture of the Renaissance and Baroque 3 cr.

Prerequisites for FA 4238: FA 2201, 2202, 2203 for Art History and/or Studio Art majors or minors.

Recommended as a sequel to FA 4235/5235 and 4237/5237. Systematic study of the major developments in architecture and urban design in Italy, France, Spain, c.1400-1750. Emphasizing the leading role of Italy with mention of selected cities and monuments from France and Spain.

FA 4240 Italian Baroque and Rococo Art 3 cr.

Prerequisite: FA 2201, 2202, 2203 for Art History and/or Studio Art majors or minors.

Recommended as a sequel to FA 4238/5238. Critical study of the developments in painting, sculpture, and graphic media in Italy from Caravaggio to Guardi.

FA 4245 Art of the Nineteenth Century 3 cr.

Fall semester. Prerequisite for FA 4245: FA 2201, 2202, 2203 for Art History and/or Studio Art majors or minors.

A study of the arts of Europe and America from Neoclassicism to Post-Impressionism.

FA 4246 Special Topics in Nineteenth Century Art 3 cr.

Prerequisite for FA 4246: FA 2201, 2202, 2203 for Art History and/or Studio Art majors or minors.

An investigation of a major movement, style, or subject relevant to nineteenth century art. Topics will vary. Lecture, evaluations, and discussions.

FA 4263 Twentieth Century Architecture 3 cr.

Prerequisite for FA 4263: FA 2201, 2202, 2203 for Art History and/or Studio Art majors or minors.

A study of the architects, movements, and monuments which have determined the course of twentieth century architecture in the United States and Europe.

FA 4265 Early Modern Art (1880-1920) 3 cr.

Prerequisite for FA 4265: FA 2201, 2202, 2203 for Art History and/or Studio Art majors or minors.

Developments in painting and sculpture in Europe and the United States from the 1880s to 1920. Attention will be given to major styles and movements (including Symbolism, Neo-Impressionism, Fauvism, Cubism, Expressionism, and Dada) to individual artists and artworks, and to the development of the concepts of revolutionary modernism and the avant-garde, of the primitive in art, and of abstraction.

FA 4266 Modernism at Mid-Century (1920-1960) 3 cr.

Prerequisite: FA 2202, 4265/5265 or consent of instructor. Developments in painting and sculpture in Europe and

the United States from 1920 to 1960. Attention will be given to major styles and movements (including Surrealism, Abstract Expressionism, Art Informel, Neo Dada), to individual artists and artworks, and to the instrumental roles of the historian, the critic, the curator, the marketplace, and political events in shaping late modern art.

FA 4267 Contemporary Art: Postmodernism and Beyond (1960-present) 3 cr.

Prerequisite for FA 4267: FA 2201, 2202, 2203, 4266 for Art History and/or Studio Art majors.

Developments in the visual arts in the United States and Europe from 1960 to the present. Attention will be given to major styles and movements (including Pop, Minimalism, Performance, Environmental Art, Conceptual Art, Feminism, Neo-Expressionism, Appropriation), to significant artists and critics, and to the historical and theoretical context in which the concept of Postmodernism has taken shape.

FA 4270 Special Topics in Modern Art 3 cr.

FA 4271 Art and Place 3 cr.

Prerequisite: FA 2201, 2202, and 2203 for Fine Arts majors. A study of how art intersects with notions of place.

Art that depicts, uses, or in some way responds to place will be covered, while also using critical theory about place and space to analyze art and designed spaces. Topics may include landscape painting and photography, landscape design, site-specific art, public art, Land Art, and architectural and urban design. The course utilizes multiple disciplines: cultural geography, art history, art criticism, architectural and landscape history, and critical theory. Each week is organized around a keyword; sessions will include both slide lectures and discussion about readings.

FA 4272 Public Art 3 cr.

Prerequisite: FA 2201, 2202, and 2203 for Fine Arts majors. A seminar that studies the history of and various approaches to public art in the modern era, from traditional monuments to new experimental and activist forms.

FA 4273 The Sculptural Imagination 0 cr.

Prerequisite: FA 2201, 2202, and 2203 for Fine Arts majors. A seminar that studies modern and contemporary notions of sculpture, including topics such as the figure, found objects and Surrealism, phenomenology and Minimalism, site-specific art, installation art, the sculpture garden at NOMA, and what 'sculpture' means today.

FA 4274 Art Criticism 3 cr.

Prerequisite: FA 2201, 2202, and 2203 for Fine Arts majors. This seminar studies the history of art criticism from Salon exhibitions in 18th century Paris to today. We will follow the historical development of criticism from the 18th century to the present, look at the significance of the journals *Artforum* and *October*, read alternative forms of art criticism, and ask what place art criticism has in today's public sphere. What is the function of art criticism, and where can we find it? Students will practice art criticism and learn to identify and analyze its characteristics of description, interpretation/analysis, and judgment/evaluation, as well as research individual art critics.

FA 4275 Displaying Art: Museum and Exhibition History 3 cr.

Prerequisite: FA 2201, 2202, and 2203 for Fine Arts majors.

This seminar studies the history of art display, from the birth of museums to contemporary exhibition strategies. Includes discussion of the socio-historical context of museums, the history of installation design and curating, the significance of key exhibitions of modern and contemporary art, and alternative exhibition formats.

FA 4276 Prospect New Orleans 3 cr.

Prerequisite for FA 4276: FA 2201, FA 2202, and FA 2203 (or consent of department).

A seminar about Prospect New Orleans, a series of international biennial exhibitions of contemporary art that occurs in New Orleans. Each iteration will study the artists included in the latest installment, the curator's vision and theoretical framework, and the context of biennial exhibition culture. After the exhibition opens, class meetings take place on site at the various exhibition locations, such as the New Orleans Museum of Art, the Contemporary Arts Center, the Ogden Museum of Southern Art, and the UNO St. Claude Gallery.

FA 4280 Critical Theory for the Fine Arts 3 cr.

Prerequisite: FA 2201, 2202, and 2203 for Fine Arts majors.

This seminar studies the application of critical theory to the visual arts. An introduction to intellectual and theoretical debates about modern and contemporary art that utilize psychoanalysis, semiotics, Marxist art history, gender studies, race studies, poststructuralism, and visual culture methodologies.

- FA 4281 Modern/Postmodern 3 cr.  
Prerequisite: FA 2201, 2202, and 2203 for Fine Arts majors. A seminar that studies concepts of modernism and postmodernism in the visual arts, including the avant-garde and neo-avant-garde.
- FA 4599 Senior Project 3 cr.  
Prerequisite: 9 hours of advanced studio practice (3000-level) in the chosen area of specialization. Students will execute a major project, prepare a critical analysis of that project, and plan and present a suitable exhibit of the work for review and evaluation by a committee of studio faculty. Six hours of studio work.
- FA 4650 Senior Project in Sculpture 3 cr.  
Offered each semester. Prerequisite: Nine hours of FA 3650. Students will execute a major project in the area of sculpture, prepare a critical analysis of their project, and plan and present a suitable exhibit of the project for review and evaluation by a committee of studio faculty. Six hours of studio work.
- FA 4750 Senior Project in Painting 3 cr.  
Offered each semester. Prerequisite: Nine hours of FA 3750. Students will execute a major project in the area of painting, prepare a critical analysis of their project, and plan and present a suitable exhibit of the project for review and evaluation by a committee of studio faculty. Six hours of studio work.
- FA 5210 African Art 3 cr.  
Prerequisite for FA 4210: FA2201, 2202, 2203 for Art History and/or Studio Art majors or minors.  
A study of the arts of sub-Saharan Africa. Emphasis is on the form and function of art in African cultures previous to or independent of Westernization.
- FA 5234 Late Medieval Art in Italy, 1250-1400 3 cr.  
Prerequisite for FA 4234: FA 2201, 2202, 2203 for Art History and/or Studio Art majors or minors.  
This course focuses on developments in painting, sculpture, and architecture in late medieval Italy, with a special emphasis on the Tuscan cities of Florence, Siena, and Pisa. Attention will be given to issues of style, regional schools, and typology, to individual artists and artworks and to the examination of the central themes raised in the literature concerning this period (for example, the proto-Renaissance, a "Black-Death" style).
- FA 5235 The Art of Quattrocento in Italy 3 cr.  
Prerequisite: FA 2201, 2202, 2203 for Art History and/or Studio Art majors or minors. Critical study of developments in painting, sculpture, and graphic media in the major centers of Italy from Ghiberti to Signorelli.
- FA 5237 The High Renaissance and Mannerism in Italy 3 cr.  
Prerequisite for FA 4237: FA 2201, 2202, 2203 for Art History and/or Studio Art majors or minors.  
Recommended as a sequel to FA 4235/5235. Critical study of developments in painting, sculpture, and graphic media in Italy from Leonardo da Vinci to Paolo Veronese.
- FA 5238 Architecture of the Renaissance and Baroque 3 cr.  
Prerequisites for FA 4238: FA 2201, 2202, 2203 for Art History and/or Studio Art majors or minors.  
Recommended as a sequel to FA 4235/5235 and 4237/5237. Systematic study of the major developments in architecture and urban design in Italy, France, Spain, c.1400-1750. Emphasizing the leading role of Italy with mention of selected cities and monuments from France and Spain.
- FA 5240 Italian Baroque and Rococo Art 3 cr.  
Prerequisite: FA 2201, 2202, 2203 for Art History and/or Studio Art majors or minors.  
Recommended as a sequel to FA 4238/5238. Critical study of the developments in painting, sculpture, and graphic media in Italy from Caravaggio to Guardi.
- FA 5245 Art of the Nineteenth Century 3 cr.  
Fall semester. Prerequisite for FA 4245: FA 2201, 2202, 2203 for Art History and/or Studio Art majors or minors.  
A study of the arts of Europe and America from Neoclassicism to Post-Impressionism.
- FA 5246 Special Topics in Nineteenth Century Art 3 cr.  
Prerequisite for FA 4246: FA 2201, 2202, 2203 for Art History and/or Studio Art majors or minors.

An investigation of a major movement, style, or subject relevant to nineteenth century art. Topics will vary. Lecture, evaluations, and discussions.

FA 5263 Twentieth Century Architecture 3 cr.

Prerequisite for FA 4263: FA 2201, 2202, 2203 for Art History and/or Studio Art majors or minors.

A study of the architects, movements, and monuments which have determined the course of twentieth century architecture in the United States and Europe.

FA 5265 Early Modern Art (1880-1920) 3 cr.

Prerequisite for FA 4265: FA 2201, 2202, 2203 for Art History and/or Studio Art majors or minors.

Developments in painting and sculpture in Europe and the United States from the 1880s to 1920. Attention will be given to major styles and movements (including Symbolism, Neo-Impressionism, Fauvism, Cubism, Expressionism, and Dada) to individual artists and artworks, and to the development of the concepts of revolutionary modernism and the avant-garde, of the primitive in art, and of abstraction.

FA 5266 Modernism at Mid-Century (1920-1960) 3 cr.

Prerequisite: FA 2202, 4265/5265 or consent of instructor. Developments in painting and sculpture in Europe and the United States from 1920 to 1960. Attention will be given to major styles and movements (including Surrealism, Abstract Expressionism, Art Informel, Neo Dada), to individual artists and artworks, and to the instrumental roles of the historian, the critic, the curator, the marketplace, and political events in shaping late modern art.

FA 5267 Contemporary Art: Postmodernism and Beyond (1960-present) 3 cr.

Prerequisite for FA 4267: FA 2201, 2202, 2203, 4266 for Art History and/or Studio Art majors.

Developments in the visual arts in the United States and Europe from 1960 to the present. Attention will be given to major styles and movements (including Pop, Minimalism, Performance, Environmental Art, Conceptual Art, Feminism, Neo-Expressionism, Appropriation), to significant artists and critics, and to the historical and theoretical context in which the concept of Postmodernism has taken shape.

FA 5270 Special Topics in Modern Art 3 cr.

FA 5271 Art and Place 3 cr.

Prerequisite: FA 2201, 2202, and 2203 for Fine Arts majors. A study of how art intersects with notions of place. Art that depicts, uses, or in some way responds to place will be covered, while also using critical theory about place and space to analyze art and designed spaces. Topics may include landscape painting and photography, landscape design, site-specific art, public art, Land Art, and architectural and urban design. The course utilizes multiple disciplines: cultural geography, art history, art criticism, architectural and landscape history, and critical theory. Each week is organized around a keyword; sessions will include both slide lectures and discussion about readings.

FA 5272 Public Art 3 cr.

Prerequisite: FA 2201, 2202, and 2203 for Fine Arts majors. A seminar that studies the history of and various approaches to public art in the modern era, from traditional monuments to new experimental and activist forms.

FA 5273 The Sculptural Imagination 0 cr.

Prerequisite: FA 2201, 2202, and 2203 for Fine Arts majors. A seminar that studies modern and contemporary notions of sculpture, including topics such as the figure, found objects and Surrealism, phenomenology and Minimalism, site-specific art, installation art, the sculpture garden at NOMA, and what 'sculpture' means today.

FA 5274 Art Criticism 3 cr.

Prerequisite: FA 2201, 2202, and 2203 for Fine Arts majors. This seminar studies the history of art criticism from Salon exhibitions in 18th century Paris to today. We will follow the historical development of criticism from the 18th century to the present, look at the significance of the journals Artforum and October, read alternative forms of art criticism, and ask what place art criticism has in today's public sphere. What is the function of art criticism, and where can we find it? Students will practice art criticism and learn to identify and analyze its characteristics of description, interpretation/analysis, and judgment/evaluation, as well as research individual art critics.

FA 5275 Displaying Art: Museum and Exhibition History 3 cr.

Prerequisite: FA 2201, 2202, and 2203 for Fine Arts majors.

This seminar studies the history of art display, from the birth of museums to contemporary exhibition strategies. Includes discussion of the socio-historical context of museums, the history of installation design and curating, the significance of key exhibitions of modern and contemporary art, and alternative exhibition formats.

FA 5276 Prospect New Orleans 3 cr.

Prerequisite for FA 4276: FA 2201, FA 2202, and FA 2203 (or consent of department).

A seminar about Prospect New Orleans, a series of international biennial exhibitions of contemporary art that occurs in New Orleans. Each iteration will study the artists included in the latest installment, the curator's vision and theoretical framework, and the context of biennial exhibition culture. After the exhibition opens, class meetings take place on site at the various exhibition locations, such as the New Orleans Museum of Art, the Contemporary Arts Center, the Ogden Museum of Southern Art, and the UNO St. Claude Gallery.

FA 5280 Critical Theory for the Fine Arts 3 cr.

Prerequisite: FA 2201, 2202, and 2203 for Fine Arts majors.

This seminar studies the application of critical theory to the visual arts. An introduction to intellectual and theoretical debates about modern and contemporary art that utilize psychoanalysis, semiotics, Marxist art history, gender studies, race studies, poststructuralism, and visual culture methodologies.

FA 5281 Modern/Postmodern 3 cr.

Prerequisite: FA 2201, 2202, and 2203 for Fine Arts majors. A seminar that studies concepts of modernism and postmodernism in the visual arts, including the avant-garde and neo-avant-garde.

FA 6100 Independent Research in Art History 3 cr.

Prerequisite: consent of department.

FA 6501 Major Studio I 3 cr.

Offered each semester. Major Studio for Master of Fine Arts candidates in one of the areas of painting, sculpture, graphics, or photography. To be taken in sequence for a total of 12 hours.

FA 6502 Major Studio I 3 cr.

Offered each semester. Major Studio for Master of Fine Arts candidates in one of the areas of painting, sculpture, graphics, or photography. To be taken in sequence for a total of 12 hours.

FA 6503 Major Studio I 3 cr.

Offered each semester. Major Studio for Master of Fine Arts candidates in one of the areas of painting, sculpture, graphics, or photography. To be taken in sequence for a total of 12 hours.

FA 6504 Major Studio I 3 cr.

Offered each semester. Major Studio for Master of Fine Arts candidates in one of the areas of painting, sculpture, graphics, or photography. To be taken in sequence for a total of 12 hours.

FA 6601 Major Studio II 3 cr.

A continuation of Major Studio I. Major studio for Master of Fine Arts candidates in the studio area that was selected for Major Studio I. To be taken in sequence for a total of 21 hours.

FA 6602 Major Studio II 3 cr.

A continuation of Major Studio I. Major studio for Master of Fine Arts candidates in the studio area that was selected for Major Studio I. To be taken in sequence for a total of 21 hours.

FA 6603 Major Studio II 3 cr.

A continuation of Major Studio I. Major studio for Master of Fine Arts candidates in the studio area that was selected for Major Studio I. To be taken in sequence for a total of 21 hours.

FA 6604 Major Studio II 3 cr.

A continuation of Major Studio I. Major studio for Master of Fine Arts candidates in the studio area that was selected for Major Studio I. To be taken in sequence for a total of 21 hours.

FA 6605 Major Studio II 3 cr.

A continuation of Major Studio I. Major studio for Master of Fine Arts candidates in the studio area that was

selected for Major Studio I. To be taken in sequence for a total of 21 hours.

FA 6606 Major Studio II 3 cr.

A continuation of Major Studio I. Major studio for Master of Fine Arts candidates in the studio area that was selected for Major Studio I. To be taken in sequence for a total of 21 hours.

FA 6607 Major Studio II 3 cr.

A continuation of Major Studio I. Major studio for Master of Fine Arts candidates in the studio area that was selected for Major Studio I. To be taken in sequence for a total of 21 hours.

FA 6701 Minor Studio 3 cr.

Minor Studio for M.F.A. candidates to be chosen from a studio area different from the major area. To be taken in sequence for a total of 12 hours.

FA 6702 Minor Studio 3 cr.

Minor Studio for M.F.A. candidates to be chosen from a studio area different from the major area. To be taken in sequence for a total of 12 hours.

FA 6703 Minor Studio 3 cr.

Minor Studio for M.F.A. candidates to be chosen from a studio area different from the major area. To be taken in sequence for a total of 12 hours.

FA 6704 Minor Studio 3 cr.

Minor Studio for M.F.A. candidates to be chosen from a studio area different from the major area. To be taken in sequence for a total of 12 hours.

FA 6801 Seminar in Fine Arts 1 cr.

No credit. Open to students in a thesis program who have only (other than application for degree) the final typing and acceptance by the Graduate School of their thesis or dissertation or to students in a non-thesis program who have only (other than application for degree) to pass the final examination to complete graduation requirements. Investigation into concepts and issues in visual arts. Students in the M.F.A. program must enroll in the seminar three times. Grades will be assigned on a SU basis.

FA 7000 Thesis Research 1 min. cr. - 9 max. cr.

Offered each semester. To be repeated for credit until thesis is accepted. Section number will correspond with credit to be earned.

FA 7040 Examination or Thesis Only 0 cr.

No credit. Open to students in a thesis program who have only (other than application for degree) the final typing and acceptance by the Graduate School of their thesis or dissertation or to students in a non-thesis program who have only (other than application for degree) to pass the final examination to complete graduation requirements.



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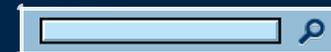
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## Foreign Languages

FORL 1001      Basic Self-Instructional Foreign Language      3 cr.

The first of two courses for beginners to acquire basic fluency in the target language. Emphasis is on speaking and understanding, with some attention to reading and writing. The mastery of basic skills will be required to study a textbook and listen to audio tapes prior to meeting with an assigned native-speaking tutor for intensive sessions throughout the semester. Students may arrange to take this course on a non-credit basis.

FORL 1002      Intermediate Self-Instructional Foreign Language      3 cr.

Prerequisite: FORL 1002 or consent of Critical Languages Program Coordinator. A continuation of courses for intermediate learners that aims at the acquisition of fluency in the target language. Emphasis is on speaking and understanding, with some attention to reading and writing. The mastery of intermediate skills will be achieved through intensive aural-oral exercises and practice. Students are required to study a textbook and listen to audio tapes prior to meeting with an assigned native-speaking tutor for intensive sessions throughout the semester. Students may arrange to take this course on a non-credit basis.

FORL 2001      Intermediate Self-Instructional Foreign Language      3 cr.

Prerequisite: FORL 1002 or consent of Critical Languages Program Coordinator. A continuation of courses for intermediate learners that aims at the acquisition of fluency in the target language. Emphasis is on speaking and understanding, with some attention to reading and writing. The mastery of intermediate skills will be achieved through intensive aural-oral exercises and practice. Students are required to study a textbook and listen to audio tapes prior to meeting with an assigned native-speaking tutor for intensive sessions throughout the semester. Students may arrange to take this course on a non-credit basis.

FORL 2002      Intermediate Self-Instructional Foreign Language II      3 cr.

Prerequisite: FORL 2001 or consent of Critical Languages Program Coordinator. A continuation of courses for intermediate learners that aims at the acquisition of fluency in the target language. Emphasis is on speaking and understanding, with some attention to reading and writing. The mastery of intermediate skills will be achieved through intensive aural-oral exercises and practice. Students are required to study a textbook and listen to audio tapes prior to meeting with an assigned native-speaking tutor for intensive sessions throughout the semester. Students may arrange to take this course on a non-credit basis.

FORL 3001      Advanced Self-Instructional Foreign Language I      3 cr.

Prerequisite: FORL 2002 or consent of Critical Languages Program Coordinator. A continuation of courses for advanced learners that aims at the acquisition of fluency in the target language. Emphasis is on speaking and understanding, with some attention to reading and writing. The mastery of advanced skills will be achieved through intensive aural-oral exercises and practice. Students are required to study a textbook and listen to audio tapes prior to meeting with an assigned native-speaking tutor for intensive sessions throughout the semester. Students may arrange to take this course on a non-credit basis.

FORL 3002 cr.	Select Foreign Language	3
FORL 3051 cr.	Reading/Discussion 1	3



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## French

Placement of students with high school preparation in French: students with sufficient preparation in French may enter the second, third, or fourth semester course in that language, thus completing the foreign language requirement in fewer semesters. Students interested in taking placement tests should contact the Foreign Language departments. Language courses in the 1001, 1002, 2001, 2002 sequence must be taken in that order.

### FREN 1001 Basic French

I 3 cr.

Offered each semester. The first in a sequence of courses developing all four language skills: speaking, understanding, writing and reading. Audio-visual items will be used to enhance the process of language acquisition.

### FREN 1002 Basic French

II 3 cr.

Offered each semester. Prerequisite: FREN 1001 or consent of department. A continuation of FREN 1001.

### FREN 2001 Intermediate French I

3 cr.

Offered each semester. Prerequisite: FREN 1002 or consent of department. Continuation of the development of all four language skills: speaking, understanding, writing, and reading with special emphasis on the last skill. Audio-visual items will be used to enhance the process of language acquisition.

### FREN 2002 Intermediate French II

3 cr.

Offered each semester. Prerequisite: FREN 2001 or consent of department. Readings and exercises in French. Increased emphasis on the development of advanced reading and translation skills.

### FREN 3002 Practical French Phonetics

3 cr.

Analysis of the phonetic system of French. Intensive practice in the language laboratory (ear training, transcription, and corrective exercises). A consideration of the problems of teaching French pronunciation to English-speaking students.

### FREN 3005 Romance Linguistics

3 cr.

(SPAN 3005 and FREN 3005 are cross-listed) Comparative study of the history, phonology, morphology, and syntax of the principal Romance languages.

### FREN 3031 French Conversation

cr.

Prerequisite: FREN 2002 or consent of department. Conversation, oral discussions, interpretations, and reports; practicing the spoken language.

### FREN 3041 Advanced French Grammar

3



to semester, but they will invariably incorporate some literature of the French South and/or works that deal with the image of the South in French literature. Classes conducted in English. May be repeated once for credit.

FREN 3405 Romance Literatures and Film 3 cr.  
(SPAN 3405 and FREN 3405 are cross-listed). Prerequisite: FREN 2002 or consent of department. A study of literary works written in Romance languages, especially in the genre of historical narratives, and of the movies that they inspired. Taught in English.

FREN 3406 The Romance Cultures of New Orleans 3 cr.  
(Cross listed with SPAN 3406) Prerequisite: FREN 2002 or consent of department. A study of the Romance languages used in New Orleans and Louisiana, such as French (Creole and Cajun), Spanish (including the Islenos), and Italian (including the Calebro-Sicilian dialect), as well as the popular culture based on them: poetry, songs, story-telling and customs for festivals. Taught in English.

FREN 3500 Tutorial for Graduating Majors 1 cr.  
This course prepares majors for the completion of their requirements for the B.A. in French. A designated professor will serve as advisor. The course consists of a review of the subjects covered in other required courses, in literature, language/linguistics and civilization. The course concludes with the Written Exit Exam, a comprehensive two-hour exam in French. Prerequisite: 100 hours of course work. Tutorial format. Pass/Fail.

FREN 4015 History of the French Language 3 cr.  
Prerequisite: FREN 2002 or consent of department. A general survey of the development of the French language from its beginnings to the present day with particular attention to the phonology, morphology, and syntax of Old French. Lectures, reports, and term paper.

FREN 4031 Advanced French Conversation 3 cr.  
Prerequisite: FREN 2002 or consent of department. Intensive practice in the spoken language: conversation, oral discussions, interpretations, and reports. Conducted in French.

FREN 4041 Problems of Grammatical Analysis 3 cr.  
Prerequisite: FREN 2002 or consent of department. Problems of grammatical analysis and contrastive stylistics are discussed on a basis that combines traditional approaches and more recent theories. Application in translation exercises, from and into French, and introduction to literary translation.

FREN 4051 Business French 3 cr.  
Prerequisite: FREN 2002 or consent of department. Study of fundamental sentence structure and specialized terminology and idioms related to business needs and correspondence; practice in business correspondence; oral exposés and conversations dealing with standard business situations and French economy; and readings from current magazines in economics and international business.

FREN 4110 Medieval French Literature 3 cr.  
Prerequisite: FREN 2002 or consent of department. Readings in the principal genres from the beginnings to 1500: the epic, the Romance, lyric poetry, and didactic literature.

FREN 4132 Seventeenth Cent French Literature 3 cr.  
Prerequisite: FREN 2002 or consent of department. A study of the principal writers of the baroque and classical periods with emphasis on the classical ideal and its formation in the non-theatrical genres.

FREN 4140 French Literature of the Eighteenth Century 3 cr.  
Prerequisite: FREN 2002 or consent of department. Origins and development of the philosophical movement in France; the novel and the theatre. Montesquieu, Marivaux, Prévost, and Voltaire up to 1750.

FREN 4154 French Literature of the Nineteenth Century 3 cr.  
Prerequisite: FREN 2002 or consent of department. A study of the major dramatists and dramatic movements of the nineteenth century in France.

FREN 4162 French Literature of the Twentieth Century

3 cr.

Prerequisite: FREN 2002 or consent of department. A study of the French novelists, playwrights, and poets, as well as the literary movements of the 20th century.

FREN 4201 French Civilization I 3 cr.

Prerequisite: FREN 2002 or consent of department. Study of French culture and civilization (history, fine arts, music, architecture, history of ideas, etc.) from its origins to the end of the Renaissance. Readings and discussions in French.

FREN 4202 French Civilization II 3 cr.

Prerequisite: FREN 2002 or consent of department. A continuation of FREN 4201 stressing the cultural history of France from the Renaissance to the present day. Readings and discussions in French.

FREN 4265 Contemporary French Culture 3 cr.

Prerequisite: FREN 2002 or consent of department. Study of French intellectual and cultural life today: social, economic, and geographical factors; the country and its people; changing trends in contemporary French society and attitudes. Conducted in French.

FREN 4400 Children's Literature in French 3 cr.

Prerequisite: FREN 2002 or consent of department. A study of the cultural heritage of stories songs rhymes and games. Selection evaluation and use of books and materials for children.

FREN 5015 History of the French Language 3 cr.

Prerequisite: FREN 2002 or consent of department. A general survey of the development of the French language from its beginnings to the present day with particular attention to the phonology, morphology, and syntax of Old French. Lectures, reports, and term paper.

FREN 5031 Advanced French Conversation 3 cr.

Prerequisite: FREN 2002 or consent of department. Intensive practice in the spoken language: conversation, oral discussions, interpretations, and reports. Conducted in French.

FREN 5041 Problems of Grammatical Analysis 3 cr.

Prerequisite: FREN 2002 or consent of department. Problems of grammatical analysis and contrastive stylistics are discussed on a basis that combines traditional approaches and more recent theories. Application in translation exercises, from and into French, and introduction to literary translation.

FREN 5051 Business French 3 cr.

Prerequisite: FREN 2002 or consent of department. Study of fundamental sentence structure and specialized terminology and idioms related to business needs and correspondence; practice in business correspondence; oral exposés and conversations dealing with standard business situations and French economy; and readings from current magazines in economics and international business.

FREN 5110 Medieval French Literature 3 cr.

Prerequisite: FREN 2002 or consent of department. Readings in the principal genres from the beginnings to 1500: the epic, the Romance, lyric poetry, and didactic literature.

FREN 5132 Seventeenth Cent French Literature 3 cr.

Prerequisite: FREN 2002 or consent of department. A study of the principal writers of the baroque and classical periods with emphasis on the classical ideal and its formation in the non-theatrical genres.

FREN 5140 French Literature of the Eighteenth Century 3 cr.

Prerequisite: FREN 2002 or consent of department. Origins and development of the philosophical movement in France; the novel and the theatre. Montesquieu, Marivaux, Prévost, and Voltaire up to 1750.

FREN 5154 French Literature of the Nineteenth Century 3 cr.

Prerequisite: FREN 2002 or consent of department. A study of the major dramatists and dramatic movements of the nineteenth century in France.

FREN 5162 French Literature of the Twentieth Century 3 cr.

Prerequisite: FREN 2002 or consent of department. A study of the French novelists, playwrights, and poets, as well as the literary movements of the 20th century.

FREN 5201	French Civilization I	3 cr.
Prerequisite: FREN 2002 or consent of department. Study of French culture and civilization (history, fine arts, music, architecture, history of ideas, etc.) from its origins to the end of the Renaissance. Readings and discussions in French.		
FREN 5202	French Civilization II	3 cr.
Prerequisite: FREN 2002 or consent of department. A continuation of FREN 4201 stressing the cultural history of France from the Renaissance to the present day. Readings and discussions in French.		
FREN 5265	Contemporary French Culture	3 cr.
Prerequisite: FREN 2002 or consent of department. Study of French intellectual and cultural life today: social, economic, and geographical factors; the country and its people; changing trends in contemporary French society and attitudes. Conducted in French.		
FREN 5400	Children's Literature in French	3 cr.
Prerequisite: FREN 2002 or consent of department. A study of the cultural heritage of stories songs rhymes and games. Selection evaluation and use of books and materials for children.		
FREN 6001	French Stylistics	3 cr.
The pragmatic aspects of the French language, i.e., those aspects which go beyond the basic structures (grammatical and lexical) to account for the functioning of a verbal system of communication in a social context. Topics to be studied include stylistic functions of language, stylistic levels, and "sociolects" (elegant versus popular, technical versus argotic), denotation versus connotation, subjectivity in language, speech acts, clichés, and figures of speech.		
FREN 6003	French "Commentaire De Texte"	3 cr.
The theory behind and practice in the French method of "commentaire de texte" textual exegesis. In addition to purely literary texts, the method will be applied to the analysis of historical and cultural documents.		
FREN 6007	French Linguistics	3 cr.
Advanced study of French phonology, syntax, and semantics within the framework of recent linguistic models, including consideration of solution of major descriptive problems proposed from at least 1900 to the present.		
FREN 6041	Theory and Practice of Translation	3 cr.
Advanced aspects of French are illustrated practically through translations selected from the French press, modern colloquial French fiction, and historical literary works. Practical work is complemented by the study of writings of well-known French authors on problems of translation.		
FREN 6097	Studies in French Linguistics	3 cr.
May be repeated once for credit.		
FREN 6190	Studies in Medieval French Literature	3 cr.
May be repeated once for credit.		
FREN 6193	Studies in Eighteenth-Century French Literature	3 cr.
May be repeated once for credit.		
FREN 6194	Studies in Nineteenth-Century French Literature	3 cr.
May be repeated once for credit.		
FREN 6195	Studies in Twentieth-Century French Literature	3 cr.
May be repeated once for credit.		
FREN 6197	Studies in French Literature	3 cr.
May be repeated once for credit.		
FREN 6205	French Thought	3 cr.
Intellectual history of France. Study of selected texts on the literature of ideas (political and social thought, science, religion and philosophy, and literary movements).		
FREN 6265	Contemporary French Society and Institutions	3 cr.

This course involves the study of aspects of contemporary French society. It focuses on the most recent developments on the French ideological and cultural scene.

FREN 6295      Studies in French Culture and Civilization      3 cr.  
May be repeated once for credit.

FREN 6397      Directed Study      3 cr.  
Readings, conferences, reports, and a research paper under the direction of a member of the graduate faculty.  
May be repeated once for credit.

FREN 7000      Thesis Research      1 min.  
cr. - 9 max. cr.  
To be repeated for credit until thesis is accepted. Section number will correspond with credit to be earned.

FREN 7040      Examination or Thesis Only      0 cr.  
No credit. Open to students in a thesis program who have only (other than application for degree) the final typing and acceptance by the Graduate School of their thesis or to students in a non-thesis program who have only (other than application for degree) to pass the final examination to complete graduation requirements.



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## Geography

GEOG 1001	World Regional Geography	3 cr.
Offered each semester. The nations of Europe (including the former Soviet Union) and the Americas; emphasis on the analysis of physical and cultural relationships and interactions between countries in time and space.		
GEOG 1002	World Regional Geography	3 cr.
Offered each semester. The nations of Oceania, Asia and Africa; emphasis on the analysis of physical and cultural relationships and interactions between countries in time and space.		
GEOG 1356	Human Geography	3 cr.
Systematic introduction to the spatial organization of generalized human behavior patterns including population demographics, migration, language, religion, political structures, economic systems, settlement patterns, and human landscape features.		
GEOG 1600	Environmental Geography	3 cr.
An analysis of the interactions between humankind and the world's physical environments which have led to present-day environmental stresses. Topics include the utilization of resources, population growth, food supplies, energy, and air and water pollution.		
GEOG 1690	Other People, Other Places	1 cr.
An examination of changing landscapes. Topics will vary each semester. Most topics will emphasize man's impact on his environment; other topics will stress the natural environment. Two hours of lecture per week for one-half semester.		
GEOG 2151	Elements of Physical Geography	3 cr.
An examination of the fundamentals of the natural landscape and their interactions. Includes weather and climate processes, world climate patterns, soil and vegetation types, and land forming processes.		
GEOG 2158	Conservation	3 cr.
An analysis of the basic principles of the conservation of the natural resources of the world. Emphasis will be placed on the United States.		
GEOG 2254	Elements of Economic Geography	3 cr.
Examination of factors influencing the location of economic activities with individual treatment of the primary, secondary, and tertiary sectors, and analysis of transportation and regional development problems.		
GEOG 2356	Cultural Geography	3 cr.
A consideration of cultural factors which influence the human use of the environment; emphasis on patterns of livelihood, environmental consequences from human decisions, the cultural landscape, the rise of statehood in different places, globalization, and subsistence traditions through time and space.		
GEOG 2701	Geographical Literature and Research Aids	1 cr.

An examination of the important elements in geographical study and the basic literature and research aids used by geographers.

GEOG 2801      Quantitative Methods in Geography      3 cr.

Prerequisites: MATH 1115. An introduction to quantitative methods and models used in analyzing geographic problems.

GEOG 3190      Special Topics in Regional Geography      3 cr.

A survey and analysis of the physical and cultural environments of a specific region of the world. The emphasis is on the physical landscape, land use, culture, political systems, and economic developments that distinguish the region. Regional topics will vary. May be repeated for credit with different topics.

GEOG 3390      Special Topics in Cultural Geography      3 cr.

Prerequisite: GEOG 2356 or consent of department. The examination of selected regions and social institutions to illustrate the manner in which the geographer achieves an understanding of the man-land relationship. Topics will vary from semester to semester. May be repeated once for credit.

GEOG 3490      Special Topics in Physical Geography      3 cr.

Prerequisite: GEOG 2151 or consent of department. An examination of selected topics in physical geography. Designed to provide an in-depth examination of specific features of the physical landscape and to analyze the manner in which man has altered the natural environment. Topics will vary from semester to semester. May be repeated once for credit.

GEOG 3850      Geography Internship      3 cr.

Prerequisite: consent of department. Each semester the department makes available internships with the City of New Orleans and other government agencies in the metropolitan area. Internships provide the opportunity to learn about geography from the perspective of the participating agency. This course may be repeated once for credit for a total of six hours.

GEOG 3895      Senior Honors Thesis      1 min. cr. - 6

max. cr.

Prerequisites: consent of department and the director of the Honors Program. The design and written preparation under faculty supervision of a major geographic research project. May be repeated for up to a total of six credits. Section number will correspond with credit to be carried.

GEOG 4150      The Geography of Hazards & Disasters      3 cr.

Recommended: Geography 1600. Students are introduced to the geographic study of natural hazards, technological hazards, and disasters. Special emphasis will be given to the spatial patterns and mapping science of both the risk and impact of each type of environmental hazard. Additionally, students will explore the geographic context of creating and managing environmental hazards, contemporary efforts to seek "all-hazards" solutions to the management of environmental hazards and disasters, and the multi-scale (i.e. global, regional, local) challenges presented by environmental hazards.

GEOG 4158      Environmental Impact Assessment      3 cr.

Prerequisites: GEOG 2151; and BIOS 1073 and 1083, or BIOS 1053 and 1063, or consent of department. Three hours of statistics are recommended. The course addresses the legal framework and provisions of environmental impact statement preparation as prescribed by the National Environmental Policy Act of 1969 and subsequent legislation and guidelines. Methodologies are considered for both analyzing and evaluating human impacts on the natural environment.

GEOG 4310      Political Geography      3 cr.

Examination of the spatial structure of the state spatial interactions among states, geopolitical theories, law of the sea, electoral patterns within the United States, and urban political geography.

GEOG 4513      Meteorology      3

cr.

GEOG 2151 is recommended as a prerequisite. An examination and analysis of the elements of weather and the techniques and problems of weather forecasting.

GEOG 4514      Climatology      3 cr.

GEOG 2151 is recommended as a prerequisite. An analysis of climatic processes and their organization into regional patterns. Also includes inter-relationships among climate, vegetation, soils and landforms, applications of climatic information, and climatic modification and change.

GEOG 4523 Hurricane Meteorology 3 cr.

Prerequisite: Geography 2151 is recommended. An overview of hurricanes, including their geographic distributions and seasonality, and their mechanisms of formation, steering and intensification. The course will explore hurricane forecasting, and the impacts of storms on landscapes and societies.

GEOG 4530 Biogeography 3 cr.

A study of the origin distribution adaptation and association of biota (plants and animals) emphasizing geographical relationships. Plant communities are correlated with climate and soil on a worldwide basis. Methods of dispersal and migration are studied along with past geological events that have affected biotic distribution.

GEOG 4540 Biogeography of Birds 3 cr.

This course will investigate bird distribution patterns and resource use patterns on several spatial scales. Broad geographic patterns will be discussed, including patterns of migration and avian zoogeography. Distributional patterns will be interpreted in terms of the habitat use and behavior of birds at different stages in their annual cycles. Field observations of species nesting around the UNO campus will be incorporated to complement lecture information.

GEOG 4610 Urban Geography 3 cr.

Prerequisite: three hours of geography or consent of department. An analysis of the origin and diffusion of cities, their internal arrangement, and external relations and the problems associated with urban living.

GEOG 4615 Cultural Ecology 3 cr.

Prerequisite: Three hours of geography or consent of department. Examines the interaction between people and their environment with a concentration on nature-society relations in technological, post-industrial societies. Focuses on Southern Louisiana.

GEOG 4715 Geography of Sports and Recreation 3 cr.

Prerequisite: Three hours of geography or consent of department. Develops a thorough understanding of the geographic dimensions of sports and recreation as elements of culture.

GEOG 4805 Fundamentals of Mapping and GIS 3 cr.

Prerequisite: Math 1115. Lecture and project-based introduction to the basic concepts and technologies important to mapping, geographic information systems (GIS), and image analysis. Topics include map design fundamentals, thematic mapping, statistical cartography, the relationship of mapping to GIS, essential elements of GIS, data acquisition and analysis, visualization of output, remotely sensed imagery and GIS, GIS functions and associated applications, and spatial decision support systems. This course will meet the needs not only of students who intend to do additional work in geographic techniques, but those who need only a one-semester survey of concepts.

GEOG 4810 Introduction to Remote Sensing 3 cr.

A comprehensive introductory course that deals with fundamental physical principles of the science of remote sensing, the theory and practice of image interpretation, and information extraction techniques for aerial photos and satellite imagery. Includes remote sensing applications pertaining to management of natural resources and contemporary environmental issues. Practical exercises expose students to image processing and interpretation techniques.

GEOG 4820 Remote Sensing II: Digital Image Processing and Analysis 3 cr.

Prerequisite: GEOG 4810 or consent of department. This course examines the quantitative, computational, and applied aspects of remotely sensed data, with the goal of providing students with an in-depth understanding of image processing analysis, and interpretation techniques. Topics include scientific visualization, geometric, radiometric, and atmospheric correction: image enhancement and manipulation, information extraction, land-use and land-cover change detection, integration of GIS and remote sensing data and spatial modeling. Class applications will address issues related to environmental analysis, land and water resource inventory and use, and urban analysis. Practical exercises expose students to image processing and information extraction techniques.

GEOG 4830 GIS Theories and Concepts 3 cr.

Prerequisite: 4805 or consent of department. Detailed lecture and lab-based examination of theories and concepts important to geographic information systems (GIS). Topics include GIS as a communication system, data acquisition and management, error management, GIS functions, GIS-based spatial analysis, GIS and regional scale, visualization concepts, the role of GIS in spatial decision support.

GEOG 4831 GIS Applications 3 cr.

Prerequisite: GEOG 4830 or consent of department. Lecture and lab-based examination of the use of geographic information systems (GIS) in specific problem-solving contexts. Activities include identification of GIS uses in different socioeconomic and physical contexts, analysis of advanced technical issues (e.g., network analysis, location-allocation modeling, facilities management) and investigation of implementation issues.

GEOG 4832 Advanced Techniques in GIS 3 cr.

Prerequisites: GEOG 4805 and GEOG 4830, or consent of department. This course introduces ArcObjects, the technology framework of ArcGIS, to advanced GIS users. This technology allows users to customize and extend the capabilities of ArcGIS. The class material covers customization of GIS applications and user-interface, program coding of GIS functions and tools, and script writing to automate GIS processes.

GEOG 4901 Field Methods in Geography 4 cr.

Prerequisites: nine hours of geography including GEOG 2801 or equivalent and consent of department. Techniques of geographic field research. Projects will emphasize methods of gathering and organizing field data and subsequent geographical analysis of collected data. Two hours of lecture and six hours of laboratory.

GEOG 4990 Independent Study 1 min. cr. -  
4 max. cr.

Prerequisite: Consent of department. Independent research under the direction of a designated faculty member. Regular conferences and signed contract between the student and the instructor are required. May be repeated for a maximum of six credits.

GEOG 5150 The Geography of Hazards & Disasters 3 cr.

Recommended: Geography 1600. Students are introduced to the geographic study of natural hazards, technological hazards, and disasters. Special emphasis will be given to the spatial patterns and mapping science of both the risk and impact of each type of environmental hazard. Additionally, students will explore the geographic context of creating and managing environmental hazards, contemporary efforts to seek "all-hazards" solutions to the management of environmental hazards and disasters, and the multi-scale (i.e. global, regional, local) challenges presented by environmental hazards.

GEOG 5158 Environmental Impact Assessment 3 cr.

Prerequisites: GEOG 2151; and BIOS 1073 and 1083, or BIOS 1053 and 1063, or consent of department. Three hours of statistics are recommended. The course addresses the legal framework and provisions of environmental impact statement preparation as prescribed by the National Environmental Policy Act of 1969 and subsequent legislation and guidelines. Methodologies are considered for both analyzing and evaluating human impacts on the natural environment.

GEOG 5310 Political Geography 3 cr.

Examination of the spatial structure of the state spatial interactions among states, geopolitical theories, law of the sea, electoral patterns within the United States, and urban political geography.

GEOG 5513 Meteorology 3 cr.

GEOG 2151 is recommended as a prerequisite. An examination and analysis of the elements of weather and the techniques and problems of weather forecasting.

GEOG 5514 Climatology 3 cr.

GEOG 2151 is recommended as a prerequisite. An analysis of climatic processes and their organization into regional patterns. Also includes inter-relationships among climate, vegetation, soils and landforms, applications of climatic information, and climatic modification and change.

GEOG 5523 Hurricane Meteorology 3 cr.

Prerequisite: Geography 2151 is recommended. An overview of hurricanes, including their geographic distributions and seasonality, and their mechanisms of formation, steering and intensification. The course will explore hurricane forecasting, and the impacts of storms on landscapes and societies.

- GEOG 5530 Biogeography 3 cr.**  
A study of the origin distribution adaptation and association of biota (plants and animals) emphasizing geographical relationships. Plant communities are correlated with climate and soil on a worldwide basis. Methods of dispersal and migration are studied along with past geological events that have affected biotic distribution.
- GEOG 5540 Biogeography of Birds 3 cr.**  
This course will investigate bird distribution patterns and resource use patterns on several spatial scales. Broad geographic patterns will be discussed, including patterns of migration and avian zoogeography. Distributional patterns will be interpreted in terms of the habitat use and behavior of birds at different stages in their annual cycles. Field observations of species nesting around the UNO campus will be incorporated to complement lecture information.
- GEOG 5610 Urban Geography 3 cr.**  
Prerequisite: three hours of geography or consent of department. An analysis of the origin and diffusion of cities, their internal arrangement, and external relations and the problems associated with urban living.
- GEOG 5615 Cultural Ecology 3 cr.**  
Prerequisite: Three hours of geography or consent of department. Examines the interaction between people and their environment with a concentration on nature-society relations in technological, post-industrial societies. Focuses on Southern Louisiana.
- GEOG 5715 Geography of Sports and Recreation 3 cr.**  
Prerequisite: Three hours of geography or consent of department. Develops a thorough understanding of the geographic dimensions of sports and recreation as elements of culture.
- GEOG 5805 Fundamentals of Mapping and GIS 3 cr.**  
Prerequisite: Math 1115. Lecture and project-based introduction to the basic concepts and technologies important to mapping, geographic information systems (GIS), and image analysis. Topics include map design fundamentals, thematic mapping, statistical cartography, the relationship of mapping to GIS, essential elements of GIS, data acquisition and analysis, visualization of output, remotely sensed imagery and GIS, GIS functions and associated applications, and spatial decision support systems. This course will meet the needs not only of students who intend to do additional work in geographic techniques, but those who need only a one-semester survey of concepts.
- GEOG 5810 Introduction to Remote Sensing 3 cr.**  
A comprehensive introductory course that deals with fundamental physical principles of the science of remote sensing, the theory and practice of image interpretation, and information extraction techniques for aerial photos and satellite imagery. Includes remote sensing applications pertaining to management of natural resources and contemporary environmental issues. Practical exercises expose students to image processing and interpretation techniques.
- GEOG 5820 Remote Sensing II: Digital Image Processing and Analysis 3 cr.**  
Prerequisite: GEOG 4810 or consent of department. This course examines the quantitative, computational, and applied aspects of remotely sensed data, with the goal of providing students with an in-depth understanding of image processing analysis, and interpretation techniques. Topics include scientific visualization, geometric, radiometric, and atmospheric correction: image enhancement and manipulation, information extraction, land-use and land-cover change detection, integration of GIS and remote sensing data and spatial modeling. Class applications will address issues related to environmental analysis, land and water resource inventory and use, and urban analysis. Practical exercises expose students to image processing and information extraction techniques.
- GEOG 5830 GIS Theories and Concepts 3 cr.**  
Prerequisite: 4805 or consent of department. Detailed lecture and lab-based examination of theories and concepts important to geographic information systems (GIS). Topics include GIS as a communication system, data acquisition and management, error management, GIS functions, GIS-based spatial analysis, GIS and regional scale, visualization concepts, the role of GIS in spatial decision support.
- GEOG 5831 GIS Applications 3 cr.**  
Prerequisite: GEOG 4830 or consent of department. Lecture and lab-based examination of the use of geographic information systems (GIS) in specific problem-solving contexts. Activities include identification of GIS uses in different socioeconomic and physical contexts, analysis of advanced technical issues (e.g., network analysis,

location-allocation modeling, facilities management) and investigation of implementation issues.

GEOG 5832      Advanced Techniques in GIS      3 cr.

Prerequisites: GEOG 4805 and GEOG 4830, or consent of department. This course introduces ArcObjects, the technology framework of ArcGIS, to advanced GIS users. This technology allows users to customize and extend the capabilities of ArcGIS. The class material covers customization of GIS applications and user-interface, program coding of GIS functions and tools, and script writing to automate GIS processes.

GEOG 5901      Field Methods in Geography      4 cr.

Prerequisites: nine hours of geography including GEOG 2801 or equivalent and consent of department. Techniques of geographic field research. Projects will emphasize methods of gathering and organizing field data and subsequent geographical analysis of collected data. Two hours of lecture and six hours of laboratory.

GEOG 6001      Problems in Land Use and Environmental Analysis      1 cr.

Required of all master of arts in geography students. Examination of procedures and concepts important to the geographical analysis of human and environmental resources focusing on land resources. Topics include spatial analysis of rural and urban land use patterns, environmental consequences of land use decisions, and the role of environmental perception in land use decision-making behavior.

GEOG 6310      Seminar in Regional Geography      3 cr.

Prerequisite: consent of instructor. Advanced analysis of the geography of a specific region. Region emphasized will vary depending on instructor. Course may be repeated once for credit.

GEOG 6330      Seminar in Cultural Historical Geography      3 cr.

Prerequisite: consent of instructor. Intensive study of a topic in cultural and/or historical geography. Topic emphasized will vary depending on instructor. Seminar may be repeated once for credit.

GEOG 6530      Seminar in Environmental Geography      3 cr.

Prerequisite: consent of department. Intensive research into selected topics, including but not limited to environmental processes, human-environment interactions, environmental impact assessment, ecological risk analysis, and public policy making. Focus on the course will vary depending on instructor. Seminar may be repeated once for credit.

GEOG 6550      Seminar in Physical Geography      3 cr.

Prerequisite: consent of instructor. Intensive study of selected problems in soils analysis, climatology, bioclimatology, plant geography, zoogeography, and geographical ecology. Area of study will vary depending on the instructor. Seminar may be repeated once for credit.

GEOG 6605      Seminar in Land Use Analysis      3 cr.

Department consent required. Intensive research into selected rural and/or urban land-use problems in their environmental and historical contexts. Course may be taken two times for a maximum of six credit hours.

GEOG 6801      Advanced Quantitative Methods in Geography      3 cr.

Prerequisite: GEOG 2801 or consent of department. An advanced course in the analysis of geographic data, focusing on the refinement of research design skills, the use of multivariate statistical techniques, and the application of commonly employed geographic sampling procedures in spatial and environmental analysis.

GEOG 6820      Seminar in Remote Sensing      3 cr.

Prerequisite: GEOG 4820 or consent of department. Intensive research into the theories and techniques of digital image processing at advanced level. Application of satellite remote sensing technology and analysis to real world problems, including image pre processing, image enhancement, supervised and unsupervised classification, change detection, classification accuracy assessment, and methods of interfacing remote sensing derived information with geographic information systems. Seminar may be repeated once for credit.

GEOG 6825      Seminar in Geographical Information Science      3 cr.

Prerequisite: GEOG 4830 or equivalent. Intensive, literature-based discussion of selected topics from Geographic Information Science. Selected topics may derive from geocomputational developments that extend the traditional GIS paradigm towards dynamic, interactive, and visual approaches, including uncertainty modeling, cellular automata, artificial neural networks and exploratory data analysis. Other topics may include Internet GIS and the societal impact of geographic information technology, including information access and privacy issues. Seminar

may be repeated once for credit.

**GEOG 6887**      Geographic Thought and Research Methods      3 cr.  
 Required of all Master of Arts in Geography students. Historical evolution of geography as an academic discipline and professional career; geographic subfields and career opportunities; and principles of library research and scholarly writing.

**GEOG 6990**      Independent Study      1 min. cr. - 4 max. cr.  
 Enrollment with consent of department. Independent research in the graduate student's area of specialization under the direction of a designated member of the graduate faculty. May be repeated for a maximum of six units of credit.

**GEOG 7000**      Thesis Research      1 min. cr. - 9 max. cr.  
 To be repeated for credit until thesis is accepted. Section number will correspond to credit to be earned.

**GEOG 7040**      Examination of Thesis Only      0 cr.  
 No credit. Open to students in a thesis program who have only (other than application for degree) the final typing and acceptance by the Graduate School of their thesis or dissertation.



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## German

- |                                                                                                                                                                                                                                                                                                                    |                                             |       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|-------|
| GER 1001                                                                                                                                                                                                                                                                                                           | Basic German I                              | 3 cr. |
| Offered each semester. A sequence of courses developing all four language skills: speaking, understanding, writing, and reading. Audio-visual material will be occasionally used.                                                                                                                                  |                                             |       |
| GER 1002                                                                                                                                                                                                                                                                                                           | Basic German                                | 3 cr. |
| Offered each semester. Continuation of the development of all four language skills: speaking, understanding, writing, and reading. The course includes the presentation and discussion of cultural material such as magazines, films, records, and other audio-visual items.                                       |                                             |       |
| GER 2001                                                                                                                                                                                                                                                                                                           | Intermediate German I                       | 3 cr. |
| Offered each semester. Continuation of the development of all four language skills: speaking, understanding, writing, and reading. The course includes the presentation and discussion of cultural material such as magazines, films, records, and other audio-visual items.                                       |                                             |       |
| GER 2002                                                                                                                                                                                                                                                                                                           | Intermediate German II                      | 3 cr. |
| Offered each semester. Readings and exercises in German. Special emphasis on comprehension as well as oral and written expression in the language.                                                                                                                                                                 |                                             |       |
| GER 3002                                                                                                                                                                                                                                                                                                           | German Phonetics                            | 3 cr. |
| Analysis of German phonetic principles with extensive practice and corrective drill in the language laboratory and with special reference to the teaching of German pronunciation to English-speaking students.                                                                                                    |                                             |       |
| GER 3031                                                                                                                                                                                                                                                                                                           | German Conversation                         | 3 cr. |
| Prerequisite: GER 2002 or the consent of the department. Conversation, oral, discussions, interpretations, and reports; practicing the spoken languages.                                                                                                                                                           |                                             |       |
| GER 3100                                                                                                                                                                                                                                                                                                           | Readings in German Culture and Civilization | 3 cr. |
| Prerequisite: GER 2002 or consent of department. Readings in German of selected works with discussion in English, analysis and cultural background. Recent cultural developments in the German speaking world will also be covered.                                                                                |                                             |       |
| GER 3101                                                                                                                                                                                                                                                                                                           | Survey of German Literature                 | 3 cr. |
| A study of German literature from the nineteenth century to the present.                                                                                                                                                                                                                                           |                                             |       |
| GER 3191                                                                                                                                                                                                                                                                                                           | Independent Work                            | 1 cr. |
| Prerequisite: consent of department. Readings, conferences, and papers under the direction of a member of the faculty. The course allows the student to correlate and supplement the work covered in the departmental courses. Each course may be repeated, but combined credit may not exceed six semester hours. |                                             |       |
| GER 3192                                                                                                                                                                                                                                                                                                           | Independent Work                            | 1 cr. |
| Prerequisite: consent of department. Readings, conferences, and papers under the direction of a member of the faculty. The course allows the student to correlate and supplement the work covered in the departmental courses. Each course may be repeated, but combined credit may not exceed six semester hours. |                                             |       |

GER 3193 Independent Work 1 cr.  
 Prerequisite: consent of department. Readings, conferences, and papers under the direction of a member of the faculty. The course allows the student to correlate and supplement the work covered in the departmental courses. Each course may be repeated, but combined credit may not exceed six semester hours.

GER 3402 Masterpieces of German Literature in Translation 3 cr.  
 (Open to all students including German and German Education majors for degree credit as an elective.) German works in translation are chosen each time for reading, analysis, and discussion.



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## Health - Safety Education

EDHS 1110      Personal Health and Wellness

3 cr.

A survey of content areas that affect the overall health of the individual, with particular emphasis on health promotion (wellness), decision-making, and health behavior. Content areas include emotional health, sexuality, nutrition, exercise, weight control, environmental health, chronic diseases, consumerism, aging, death, and dying. An alternate assignment will be required of Secondary Education Majors. A field experience is required.

EDHS 2700      Drug Use and Abuse      3

cr.

Designed to provide information concerning drugs which affect the body and the action or reaction of the body to these drugs. In addition, societal as well as personal influences which contribute to drug use will be studied.

EDHS 3101      The Health Aspects of Consumerism      3

cr.

This course is designed to provide students with an opportunity to gain knowledge about health-related products and services, recognize fraud and quackery, assess their attitudes about health consumerism, and alter their health consumer behaviors.

EDHS 4111      Epidemiological Principles in Health Promotion      3 cr.

The epidemiologic orientation to health and disease, as well as basic descriptive and analytic aspects of epidemiology, will be covered in this course designed for students in health education-related fields.

EDHS 4190      Current Problems in Health Promotion      3

cr.

Prerequisite: consent of department. Topic may vary from semester to semester. This course may be repeated once for credit.

EDHS 4200      Health Promotion Ethics      3

cr.

(EDHS 4200 and PHIL 4200 are cross-listed) This course will examine ethical issues arising in the professional and social-policy aspects of health promotion. Coverage includes such topics as: "fact," "value," and "knowledge" regarding health; moral codes in health promotion; concepts of efficiency, fairness, autonomy, and privacy in health contexts; and special moral problems concerning sex, drugs, food, pain, aging, death, health on the job, and generational equality.

EDHS 4201      The School Health Program      3 cr.

Prerequisite: EDHS 1110 or consent of department. A study of the total school health program - the school environment, health services, and health education. Roles and responsibilities of appropriate school personnel will be explored.

EDHS 4202      Community Health Promotion      3 cr.

This course is designed to provide participants with methods of community diagnosis and needs assessment, interagency liaison building, and creating linkages between academics sites, community based agencies and local

networks. Ideally, the participant will bring to this class a background in health education theory and an understanding of the design, planning, implementation, monitoring, and evaluation of health education programs.

- |                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                    |        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|--------|
| EDHS 4301                                                                                                                                                                                                                                                                                                                                                                                                                                     | Methods of Health Education                        | 3 cr.  |
| This is a preservice/in-service course designed for health educators. Emphasis will be on current health problems and the importance of developing positive healthy behavior patterns. Current research literature will be examined for selection and use of effective teaching strategies.                                                                                                                                                   |                                                    |        |
| EDHS 4302                                                                                                                                                                                                                                                                                                                                                                                                                                     | Planning and Evaluating Health Promotion Programs  | 3 cr.  |
| Health promotion rationale, program planning, implementation, monitoring, and evaluation will be covered as well as relevant competencies for Certified Health Education Specialist preparation.                                                                                                                                                                                                                                              |                                                    |        |
| EDHS 4610                                                                                                                                                                                                                                                                                                                                                                                                                                     | Nutritional Aspects of Health and Physical Fitness | 3 cr.  |
| The role of nutrition in health promotion and physical fitness is considered through exploring general topics such as nutrient categories, dietary planning, and nutrition education. Also covered are specific areas such as energy balance, weight control, the role of nutrition in fitness and athletic performance, and community nutrition.                                                                                             |                                                    |        |
| EDHS 4701                                                                                                                                                                                                                                                                                                                                                                                                                                     | Emotional Health and Critical Issues               | 3 cr.  |
| A study of positive emotional health designed to enhance the student's own emotional health. Promotes the use of techniques to help self and others deal with problem areas having emotional content.                                                                                                                                                                                                                                         |                                                    |        |
| EDHS 4702                                                                                                                                                                                                                                                                                                                                                                                                                                     | Death and Dying                                    | 3      |
| cr.<br>This course is designed to explore views toward death, dying, grief, and adjustment. Emphasis will be placed upon helping individuals confront fears and feelings related to death, dying, bereavement, and adjustment.                                                                                                                                                                                                                |                                                    |        |
| EDHS 4703                                                                                                                                                                                                                                                                                                                                                                                                                                     | Stress Management for Health Promotion             | 3 cr.  |
| This course focuses upon the relationship between stress and health, disease and stress management techniques. Also, theory and practical applications for a variety of populations will be included.                                                                                                                                                                                                                                         |                                                    |        |
| EDHS 4704                                                                                                                                                                                                                                                                                                                                                                                                                                     | Health Issues of Aging                             | 3      |
| cr.<br>Focuses on strategies for developing and conducting health and fitness promotion programs for older adults. Topics include functional changes, nutrition, exercise, pharmacological aspects, and death and dying.                                                                                                                                                                                                                      |                                                    |        |
| EDHS 4705                                                                                                                                                                                                                                                                                                                                                                                                                                     | Gender and Health                                  | 3 cr.  |
| This course is designed to help break through personal and social barriers and to promote new insights about the way our gender influences each of the seven dimensions of health. As such it is a part of a process designed to help us learn more about ourselves by approaching gender and all health issues comprehensively.                                                                                                              |                                                    |        |
| EDHS 4706                                                                                                                                                                                                                                                                                                                                                                                                                                     | Social Marketing for Health Communication          | 3 cr.  |
| Introduces students to the roles of social marketing and media advocacy as health promotion and disease prevention initiatives. Focus will be on audience targeting, cultural issues in message design, selection of communication channels, formative research and evaluation, and theoretical foundations of communication. Relevant competencies for Certified Health Education Specialist preparation will be covered.                    |                                                    |        |
| EDHS 4801                                                                                                                                                                                                                                                                                                                                                                                                                                     | Education for a Healthy Sexuality                  | 3 cr.  |
| A study of human sexuality as it affects and influences decisions and interactions relative to a healthy sexuality. This class promotes self-discovery and growth leading to greater personal comfort with sexuality and sexual issues.                                                                                                                                                                                                       |                                                    |        |
| EDHS 4900                                                                                                                                                                                                                                                                                                                                                                                                                                     | Exercise and Mental Health                         | 3 cr.  |
| This class will examine the relationship between exercise and many aspects of mental health. The current knowledge base and theoretical models pertaining to the relationship between exercise and mental health will be examined. Practical application of the concepts will be emphasized. Topics will include exercise prescription, well-being, anxiety, depression, stress, self-esteem, flow, peak experiences, and exercise addiction. |                                                    |        |
| EDHS 4998                                                                                                                                                                                                                                                                                                                                                                                                                                     | Practicum in Health Promotion                      | 1 min. |
| cr. - 6 max. cr.<br>Prerequisites: junior standing or higher completion of a minimum of 50 percent of the required EDHS/EDHP undergraduate courses and/or consent of department. Supervised experiences in health promotion. This course                                                                                                                                                                                                      |                                                    |        |

may be repeated but total credit may not exceed six semester hours. Section number will correspond with credit to be earned. Graduate students cannot receive more than nine hours of graduate credit from the combined courses of EDHS 4998 and 6990, or EDHP 4998 and/or 6990.

EDHS 5111            Epidemiological Principles in Health Promotion            3 cr.

The epidemiologic orientation to health and disease, as well as basic descriptive and analytic aspects of epidemiology, will be covered in this course designed for students in health education-related fields.

EDHS 5190            Current Problems in Health Promotion            3 cr.

Prerequisite: consent of department. Topic may vary from semester to semester. This course may be repeated once for credit.

EDHS 5200            Health Promotion Ethics            3 cr.

(EDHS 4200 and PHIL 4200 are cross-listed) This course will examine ethical issues arising in the professional and social-policy aspects of health promotion. Coverage includes such topics as: "fact," "value," and "knowledge" regarding health; moral codes in health promotion; concepts of efficiency, fairness, autonomy, and privacy in health contexts; and special moral problems concerning sex, drugs, food, pain, aging, death, health on the job, and generational equality.

EDHS 5201            The School Health Program            3 cr.

Prerequisite: EDHS 1110 or consent of department. A study of the total school health program - the school environment, health services, and health education. Roles and responsibilities of appropriate school personnel will be explored.

EDHS 5202            Community Health Promotion            3 cr.

This course is designed to provide participants with methods of community diagnosis and needs assessment, interagency liaison building, and creating linkages between academics sites, community based agencies and local networks. Ideally, the participant will bring to this class a background in health education theory and an understanding of the design, planning, implementation, monitoring, and evaluation of health education programs.

EDHS 5301            Methods of Health Education            3 cr.

This is a preservice/in-service course designed for health educators. Emphasis will be on current health problems and the importance of developing positive healthy behavior patterns. Current research literature will be examined for selection and use of effective teaching strategies.

EDHS 5302            Planning and Evaluating Health Promotion Programs            3 cr.

Health promotion rationale, program planning, implementation, monitoring, and evaluation will be covered as well as relevant competencies for Certified Health Education Specialist preparation.

EDHS 5610            Nutritional Aspects of Health and Physical Fitness            3 cr.

The role of nutrition in health promotion and physical fitness is considered through exploring general topics such as nutrient categories, dietary planning, and nutrition education. Also covered are specific areas such as energy balance, weight control, the role of nutrition in fitness and athletic performance, and community nutrition.

EDHS 5701            Emotional Health and Critical Issues            3 cr.

A study of positive emotional health designed to enhance the student's own emotional health. Promotes the use of techniques to help self and others deal with problem areas having emotional content.

EDHS 5702            Death and Dying            3 cr.

This course is designed to explore views toward death, dying, grief, and adjustment. Emphasis will be placed upon helping individuals confront fears and feelings related to death, dying, bereavement, and adjustment.

EDHS 5703            Stress Management for Health Promotion            3 cr.

This course focuses upon the relationship between stress and health, disease and stress management techniques. Also, theory and practical applications for a variety of populations will be included.

EDHS 5704            Health Issues of Aging            3 cr.

Focuses on strategies for developing and conducting health and fitness promotion programs for older adults. Topics include functional changes, nutrition, exercise, pharmacological aspects, and death and dying.

EDHS 5705            Gender and Health            3 cr.

This course is designed to help break through personal and social barriers and to promote new insights about the way our gender influences each of the seven dimensions of health. As such it is a part of a process designed to help us learn more about ourselves by approaching gender and all health issues comprehensively.

EDHS 5706            Social Marketing for Health Communication            3 cr.

Introduces students to the roles of social marketing and media advocacy as health promotion and disease prevention initiatives. Focus will be on audience targeting, cultural issues in message design, selection of communication channels, formative research and evaluation, and theoretical foundations of communication. Relevant competencies for Certified Health Education Specialist preparation will be covered.

EDHS 5801            Education for a Healthy Sexuality            3 cr.

A study of human sexuality as it affects and influences decisions and interactions relative to a healthy sexuality. This class promotes self-discovery and growth leading to greater personal comfort with sexuality and sexual issues.

EDHS 5900            Exercise and Mental Health            3 cr.

This class will examine the relationship between exercise and many aspects of mental health. The current knowledge base and theoretical models pertaining to the relationship between exercise and mental health will be examined. Practical application of the concepts will be emphasized. Topics will include exercise prescription, well-being, anxiety, depression, stress, self-esteem, flow, peak experiences, and exercise addiction.

EDHS 5998            Practicum in Health Promotion            1 min. cr. - 6 max. cr.

Prerequisites: junior standing or higher completion of a minimum of 50 percent of the required EDHS/EDHP undergraduate courses and/or consent of department. Supervised experiences in health promotion. This course may be repeated but total credit may not exceed six semester hours. Section number will correspond with credit to be earned. Graduate students cannot receive more than nine hours of graduate credit from the combined courses of EDHS 4998 and 6990, or EDHP 4998 and/or 6990.

EDHS 6998            Internship in Health Promotion            1 min. cr. - 6 max. cr.

Prerequisite: consent of department. Provides a supervised experience in one of the professional domains of health promotion. Examples of intern settings include: university student health services, health/community agencies, corporate worksites, and schools.



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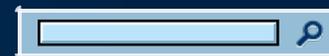
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## History

HIST 1000      The Last Five Years

3 cr.

Offered each semester. This course analyzes the historical processes of continuity and change through lectures, assigned readings, and organized discussions focused on issues and events of the last five years their background and development. Open to freshmen only.

HIST 1001      World History to  
1600

3 cr.

Offered each semester. Survey of the societies of Asia, Africa, the Americas, and Europe from the earliest times to the beginning of the modern world.

HIST 1002      World History since 1600

3 cr.

Offered each semester. Survey of the societies of Asia, Africa, Latin America, and Europe in modern times.

HIST 1010      Introduction to African-American History

3 cr.

Offered each semester. An introduction to the origins and patterns of African-American life and culture in the United States. Lectures and discussions.

HIST 2000      Environmental History

3

cr.

The rise and decline of states, empires, and civilizations in world history from ancient times to the modern period, seen from an environmental perspective.

HIST 2050      Historical Catastrophes

3 cr.

This course compares the conditions, causes and effects of the Katrina disaster with those of other historical catastrophes in the world in order to highlight some of the broader and longer historical forces which govern such events. It also reflects on discourses of human rights and genocide in the context of catastrophes produced by global modernities.

HIST 2080      The Impact of Science on Western Society

3 cr.

A non-technical survey of the impact of scientific ideas, methods, and discoveries on life and thought in the western world, examined through critical episodes in the history of science from ancient to modern times and their impact on society.

HIST 2201      History of Asian Civilizations

3 cr.

A comparative approach to the study of Asia divided into five culture zones (West, South, East, Southeast, and Central) from the dawning of civilization to the sixteenth century C.E.

HIST 2202      Modern Asian History

3 cr.

A comparative approach to the study of Asia divided into five culture zones (West, South, East, Southeast, and Central) from the sixteenth century to the present.

HIST 2251	The Islamic World	3 cr.
A History of the Islamic world, covering Islamic beginnings in the Middle East, the global spread of Muslim communities, and the transformations of contemporary Islamic communities in modern Asia, Africa, and the Middle East. The course's principle focus will be on the relationship among Islamic politics, culture and society.		
HIST 2301	Introduction to Archaeology	3 cr.
A survey of the development of archaeological research emphasizing modern principles and current techniques of excavation and dating.		
HIST 2305	Modern European History, 1789 - Present	3 cr.
A survey of modern European history from the French Revolution to the present, with particular emphasis on social, political, and cultural developments.		
HIST 2307	English History to 1688	3 cr.
Medieval and early modern England to 1688; medieval society and institutions, constitutional developments, Tudor society and the English Reformation, Stuart kings and revolution.		
HIST 2362	Modern Britain	3 cr.
Introductory survey of the making of modern Britain since 1688, covering class, gender, race, capitalism and empire.		
HIST 2400	Introduction to Latin American History	3 cr.
Survey of the history of Latin America, from first contact between Europeans and indigenous Americans to the present day.		
HIST 2501	U.S. History I	3 cr.
Offered each semester. Survey of United States history from the earliest times to the Civil War.		
HIST 2502	U.S. History II	3 cr.
Offered each semester. Survey of United States history from the Civil War to the present.		
HIST 2520	History of American Sports	3 cr.
This course will examine and interpret American sports from the colonial era to the present, placing emphasis on the role of sports in American life and how changes in American life have affected sports. This is a course in American social and cultural history, exploring issues such as race, class, gender, foreign policy, nationalism, religion, economics, industrialization, and urbanization as they relate to sports.		
HIST 2587	Women in American History	3 cr.
An examination of the diverse historical experience of women in America from the colonial period to the present.		
HIST 2601	History of Louisiana	3 cr.
Offered each semester. A survey of the political, economic, social, and cultural development of Louisiana from the founding of the French colony to the present day.		
HIST 2602	African Americans in Louisiana	3 cr.
A study of the role of African Americans in the development of Louisiana with particular emphasis on their contributions to the history of the state, its traditions, and culture.		
HIST 2603	The History of New Orleans	3 cr.
The social, economic, and political growth of New Orleans from colonial times to the present, with particular attention to its ethnic groupings and physical development.		
HIST 2701	Africa To 1830	3 cr.
Survey of African History from the peopling of the continent to the early nineteenth century. This course will address the formation of African states, trade and technology, culture and political-economy, the impact of Islam and Christianity, and to the Atlantic slave trade.		
HIST 2702	Africa 1830-Present	3 cr.
Survey of African history from the end of the Atlantic slave trade through the colonial period and the struggle for independence to the nation-states to the present day.		
HIST 2991	Special Studies in History	3 cr.

Topic may vary from semester to semester. The course may be repeated for credit.

HIST 3225	The War in Vietnam	3 cr.
A history of the war in Vietnam, 1945-1975, with the emphasis on the American involvement, 1960-1973.		
HIST 3551	African-American History	3 cr.
The history of African-Americans from African origins to 1860.		
HIST 3552	African-American History	3 cr.
The history of African-Americans since 1860.		
HIST 3575	United States Presidents and Contemporary History	3 cr.
A special view of American history, seen from the perspective of our national leaders. The course will deal with the Presidents since Franklin D. Roosevelt, their earlier careers, their programs, their foreign policies, their wars, their successes, and their failures.		
HIST 3595	Academic Year Abroad: Special Topics in History	3 cr.
This course is only offered through UNO's Academic Year Abroad (AYA) in Innsbruck, Austria and can be repeated once for credit.		
HIST 3603	History of New Orleans Music	3 cr.
The history of musical activity in New Orleans from colonial times to the present, with particular attention to the social, cultural, and economic ways in which the city has used music. No prior knowledge of music required.		
HIST 3992	Special Studies in History	3 cr.
Topic may vary from semester to semester. The course may be repeated for credit.		
HIST 3995	Independent Study: Readings	1 cr.
Prerequisite: consent of department. The courses consist of directed readings designed to meet the needs and interests of the individual student; regular conferences between the student and the instructor are required.		
HIST 3999	Senior Honors Thesis	1 min. cr. - 6 max. cr.
Prerequisite: consent of department and the director of the Honors Program. Directed research culminating in a written thesis to meet the requirements for graduation with University Honors and Honors in History. May be repeated for up to a total of six credits. Section number will correspond with credit to be earned.		
HIST 4001	The City and Civilization	3 cr.
Major developments in world urban history from ancient times to the present with emphasis on the European city.		
HIST 4003	Modern Military History	3 cr.
An examination of war and military institutions in western society since the end of the Middle Ages.		
HIST 4005	History of Social Radicalism	3 cr.
A study of socialist and communist ideas and political action in the formation of the modern world.		
HIST 4008	Public History Methods	3 cr.
Departmental consent required. An introduction to the research techniques and practices appropriate for public historians. Each semester the course will engage a different theme, such as oral history, new media, or visual history. May be repeated for credit with permission of department.		
HIST 4100	History of the Atlantic World, 1400-1825	3 cr.
This course focuses on the various contacts and interactions that shaped the Atlantic World from its earliest inception through the revolutionary period. Starting in the fifteenth century, the continents that border the Atlantic have been connected through trade and migration. These transatlantic connections transformed the commerce, environment, political organization, cultures, and communities of the European, African, and American continents. This course will examine these Atlantic borderlands, how they connected, and how they transformed when they became part of the Atlantic World.		
HIST 4105	Women & Slavery in the Americas	3 cr.
This course explores women's relationship to the system of Atlantic slavery, including their reproductive roles in		

colonial slave societies, the sexual and racial politics of slaveholding regimes, forms of female slave resistance, and women's activism for abolition. It will also examine the topic of women and slavery transnationally, studying the experiences of women in the United States, Latin America, and the Caribbean.

HIST 4201	History of Modern China	3 cr.
The Empire of the Manchus; China's internal development from 1842 to 1911; political, social, and intellectual movements in the Republican period, 1911-1949; and China under communism.		
HIST 4213	History of Japan 1945 - Present	3 cr.
A survey of postwar and contemporary Japan in global contexts from 1945 to the present.		
HIST 4221	History of Modern Southeast Asia	3 cr.
A history of Southeast Asia since the nineteenth century, with emphasis on Vietnam, Cambodia, Thailand, the Philippines, and Indonesia.		
HIST 4231	Modern India	3 cr.
A survey of modern and contemporary India in global contexts from 1756 to the present		
HIST 4255	History of Political Islam	3 cr.
Examines modern Islamic political cultures in Asia, Africa and the Middle East, by focusing on the causes, development, and context of the modern Islamic revival. Topics to be covered include: Islam and the military dictatorships, Islamic democracy, the Iranian Revolution, the Muslim Brotherhood, women in modern Islam, and Islam and terrorism.		
HIST 4301	The Ancient Near East	3 cr.
A study of the civilizations of Mesopotamia, Egypt, Anatolia, Syria, Palestine, and Persia from earliest times to the Hellenistic period.		
HIST 4303	Roman History	3 cr.
A history of Roman civilization from the beginning to the empire of Constantine.		
HIST 4307	The High Middle Ages	3 cr.
An examination of European civilization in the eleventh, twelfth, and thirteenth centuries with emphasis on cultural and institutional developments.		
HIST 4310	The Renaissance and the Reformation	3 cr.
Transition from medieval to modern conditions, emphasizing social, economic, and cultural changes of the fourteenth and fifteenth centuries and the religious upheaval of the sixteenth century.		
HIST 4320	The Rise of Modern Europe	3 cr.
History of Europe in the seventeenth and eighteenth centuries.		
HIST 4330	French Revolution and Napoleon	3 cr.
Examines the origins, development, effects and enduring significance of the French Revolution and Napoleonic period, exploring changes in politics, culture, society and the economy that helped to define the modern era and world.		
HIST 4340	Nineteenth Century Europe	3 cr.
HIST 4343	Revolutionary Europe 1789 1848	3 cr.
An analysis of both the French and Industrial Revolutions and their legacies in early nineteenth century Europe. Topics will include the development of new ideologies, the rise of a class society, and the origins and course of the Revolutions of 1820, 1830, and 1848.		
HIST 4344	Imperial Europe, 1848-1918	3 cr.
An analysis of the reordering of Europe following the Revolutions of 1848 and the Crimean War. Topics will include the consolidation of nation-states, the expansion of European overseas empires, the rise of mass politics, and the origins and course of the First World War.		
HIST 4345	Europe in the Shadow of War, 1918-1945	3 cr.
An analysis of Europe during the interwar period and the Second World War. Topics will include the aftermath of the First World War, the rise of totalitarian regimes, and the origins and course of the Second World War.		

HIST 4346	Postwar Europe, 1945-Present	3 cr.
An analysis of Europe during the postwar era. Topics will include the aftermath of the Second World War, the rise of Cold War antagonisms, postwar prosperity, European integration, and the eventual collapse of the Soviet Bloc.		
HIST 4361	Tudor England	3 cr.
England from the Wars of the Roses to the death of Elizabeth, 1471-1603. Moves from Richard III's death on Bosworth field to Henry VIII and Anne Boleyn, Edward VI, "Bloody" Mary, and the Age of Elizabeth, with special emphasis on the Shakespearean Renaissance, the rise of Parliament, and the naval exploits of the English "Sea Dogs."		
HIST 4362	Stuart England	3 cr.
The political, economic, and cultural history of England in the seventeenth century, 1603-1714.		
HIST 4364	Modern Ireland: History and Culture	3 cr.
A survey of modern and contemporary Ireland from the 1798 rebellion to the present, with an emphasis on late modern Irish history and culture in transnational contexts.		
HIST 4366	The British Empire	3 cr.
General survey of the British Empire and development of the British Commonwealth of Nations.		
HIST 4367	The Age of Louis XIV	3 cr.
France in the seventeenth century. The course will focus on the formation of the modern state with a political-military bureaucracy that was imitated, like Versailles, on a lesser scale in other countries; the development of the French colonial empire, including Louisiana; and the dominant cultural, intellectual, scientific, and religious trends along with their impact elsewhere in Europe. Several slide lectures will illustrate the art and architecture of the period.		
HIST 4368	Modern France	3 cr.
Major political, social, and economic forces that molded the French nation after 1815.		
HIST 4371	Modern Germany, 1789-Present	3 cr.
An analysis of German history from the French Revolution to the present. Topics will include the formation of a German nation-state, the rise of radical nationalism, the Second World War and the Holocaust, and postwar Germany's economic and political development.		
HIST 4373	History of the Hapsburg Empire	3 cr.
A study of the Hapsburg Empire from its emergence as a major power in the eighteenth century to the disintegration of Austria-Hungary in 1918.		
HIST 4376	Modern and Contemporary Russia	3 cr.
Focus on late Imperial and Soviet periods.		
HIST 4380	Europe's Quest for Power and Peace	3 cr.
A study of the major developments in European international relations with emphasis on diplomacy as an instrument of national policy. The first semester examines developments from the Congress of Vienna to the origins of the First World War; the second covers from the Versailles peace settlement through Second World War and the Cold War to the present. Either semester may be taken independently.		
HIST 4381	Europe's Quest for Power and Peace	3 cr.
A study of the major developments in European international relations with emphasis on diplomacy as an instrument of national policy. The first semester examines developments from the Congress of Vienna to the origins of the First World War; the second covers from the Versailles peace settlement through Second World War and the Cold War to the present. Either semester may be taken independently.		
HIST 4383	The European Intellectual Tradition	3 cr.
This course is not a history of formal thought, but relates central ideas to political, economic, social, artistic, and scientific movements. The first semester concentrates on the earlier periods and the second semester on modern Europe. Either semester may be taken independently.		
HIST 4401	Latin American Cities	3 cr.

The course examines the formation and function of cities in Latin America beginning with Iberian and pre-Columbian antecedents and tracing urban development in Spanish and Portuguese America to the present day.

HIST 4403	History of Mexico	3 cr.
	Political, economic, and social developments from the colonial period to the present.	
HIST 4406	Caribbean Civilization	3 cr.
	Survey of the West Indies, Central America, Colombia, and Venezuela from colonial to modern times.	
HIST 4501	The Colonial Period in American History	3 cr.
	An examination of the establishment and development of the English colonies in North America.	
HIST 4502	The Revolutionary Period in American History	3 cr.
	An analysis of the causes, progress, and consequences of the revolution in the British colonies of North America.	
HIST 4503	The Early U.S. Republic	3 cr.
	Development of American political, social, and cultural institutions during the formative years of the new Republic.	
HIST 4506	Civil War and Reconstruction	3 cr.
	A study of the wartime problems of the Union and Confederacy, the consequences of the war, and the efforts to create a new Union.	
HIST 4508	America in Transition 1877-1900	3 cr.
	An intensive study of the rise of the United States as an industrial and world power with particular stress on the changing patterns within American society.	
HIST 4510	Recent American History	3 cr.
	Historical evolution of the United States in recent times.	
HIST 4511	Recent American History	3 cr.
	Historical evolution of the United States in recent times.	
HIST 4521	The New South	3 cr.
	Political, social, and economic changes in the South since 1880.	
HIST 4531	Seeing History through Film	3 cr.
	This course will use film to approach significant problems in history. It will examine a number of enduring topics in US and World History by examining their treatment in film. It will explore how visual representations have explained, influenced, challenged and transformed cultural and social traditions. Each semester the course will engage a different theme, focusing on a particular national tradition.	
HIST 4543	United States Urban History	3 cr.
	Departmental consent required. Urban development in the United States from the colonial town to the twentieth century megalopolis.	
HIST 4544	Religion in American History	3 cr.
	The role of religion in American life from early colonial times to the Civil War.	
HIST 4547	Women in the Modern American City	3 cr.
	The roles of women in urban American culture since World War II with emphasis on issues of gender, ethnicity, and class.	
HIST 4551	African-American Slavery	3 cr.
	A study of the origins and the political, economic, and social structure of slavery in the European colonial empires of the western hemisphere with special emphasis on the British Empire and the United States.	
HIST 4552	Black Movements and Messiahs	3 cr.
	A study of the organizations, leadership, and programs of late nineteenth and twentieth century movements that have sought escape from personal and institutional racism in the United States.	
HIST 4555	The Civil Rights Era	3 cr.
	An examination of race relations in the United States from the New Deal of the 1930s to the 1980s.	

HIST 4562	U.S. Constitutional History Since 1865	3 cr.
The role of the constitution in the transformation of the federal union into the indivisible nation.		
HIST 4565	U.S. Military History, 1607-2001	3 cr.
Introduction to American military history from the colonial period to the end of the Cold War. The course emphasizes the conduct of major wars, defense policy, the development of the U.S. armed forces, civil-military relations, and technological innovation.		
HIST 4570	World War II-An International History	3 cr.
A look at World War II from a global perspective: the intricate international diplomacy and strategic planning of the principal combatants; the war's major military campaigns and battles, its impact on the involved societies and economies, its brutal effect on victims, its difficult choices of appeasement/collaboration or resistance, as well as the postwar "mastering" of the war's harsh memories.		
HIST 4575	The Cold War Era	3 cr.
An examination of the role the United States in the international arena and the nuclear arms race during the Cold War (1945-1989) and its repercussions on domestic politics.		
HIST 4581	Diplomatic History of the United States	3 cr.
Historical evolution of American foreign policies since 1776.		
HIST 4582	Sources of American Thought	3 cr.
Ideas and beliefs which have shaped American life, traced from early colonial times to 1865. Special attention to Puritan attitudes, the Enlightenment, southern particularism, Romantic currents, and perceptions of nature and technology.		
HIST 4583	Modern American Thought	3 cr.
Ideas and beliefs which have shaped American life since the Civil War. Special attention to the impact of Darwinian evolution, idealism, and pragmatism, modernist and anti-modernist attitudes, the South, and radical and conservative critiques of American society.		
HIST 4587	American Social and Cultural History 1865 to the Present	3 cr.
A study of the historical development of American Cultural and Social Movements, with an emphasis upon literature, art, architecture, and popular culture.		
HIST 4603	Research in New Orleans History	3 cr.
Departmental consent required. A detailed survey of qualitative research techniques, their application to local and urban history, and the preparation of a written project based on primary research in New Orleans history.		
HIST 4800	Historical Thought and Writing	3 cr.
Departmental consent required. This capstone course is a practicum designed to bring undergraduate history students' studies to a conclusion, with special emphasis on reviewing the varieties of historical thought and the process of writing history. Practice in critical analysis, research methodology, documentation, bibliographic forms, and composition, culminating in a major research paper.		
HIST 4991	Special Studies in History	3 cr.
Topic may vary from semester to semester. The course may be repeated for credit.		
HIST 5001	The City and Civilization	3 cr.
Major developments in world urban history from ancient times to the present with emphasis on the European city.		
HIST 5003	Modern Military History	3 cr.
An examination of war and military institutions in western society since the end of the Middle Ages.		
HIST 5005	History of Social Radicalism	3 cr.
A study of socialist and communist ideas and political action in the formation of the modern world.		
HIST 5008	Public History Methods	3 cr.
Departmental consent required. An introduction to the research techniques and practices appropriate for public historians. Each semester the course will engage a different theme, such as oral history, new media, or visual		

history. May be repeated for credit with permission of department.

HIST 5100	History of the Atlantic World, 1400-1825	3 cr.
This course focuses on the various contacts and interactions that shaped the Atlantic World from its earliest inception through the revolutionary period. Starting in the fifteenth century, the continents that border the Atlantic have been connected through trade and migration. These transatlantic connections transformed the commerce, environment, political organization, cultures, and communities of the European, African, and American continents. This course will examine these Atlantic borderlands, how they connected, and how they transformed when they became part of the Atlantic World.		
HIST 5105	Women & Slavery in the Americas	3 cr.
This course explores women's relationship to the system of Atlantic slavery, including their reproductive roles in colonial slave societies, the sexual and racial politics of slaveholding regimes, forms of female slave resistance, and women's activism for abolition. It will also examine the topic of women and slavery transnationally, studying the experiences of women in the United States, Latin America, and the Caribbean.		
HIST 5201	History of Modern China	3 cr.
The Empire of the Manchus; China's internal development from 1842 to 1911; political, social, and intellectual movements in the Republican period, 1911-1949; and China under communism.		
HIST 5213	History of Japan 1945 - Present	3 cr.
A survey of postwar and contemporary Japan in global contexts from 1945 to the present.		
HIST 5221	History of Modern Southeast Asia	3 cr.
A history of Southeast Asia since the nineteenth century, with emphasis on Vietnam, Cambodia, Thailand, the Philippines, and Indonesia.		
HIST 5231	Modern India	3 cr.
A survey of modern and contemporary India in global contexts from 1756 to the present		
HIST 5255	History of Political Islam	3 cr.
Examines modern Islamic political cultures in Asia, Africa and the Middle East, by focusing on the causes, development, and context of the modern Islamic revival. Topics to be covered include: Islam and the military dictatorships, Islamic democracy, the Iranian Revolution, the Muslim Brotherhood, women in modern Islam, and Islam and terrorism.		
HIST 5301	The Ancient Near East	3 cr.
A study of the civilizations of Mesopotamia, Egypt, Anatolia, Syria, Palestine, and Persia from earliest times to the Hellenistic period.		
HIST 5303	Roman History	3 cr.
A history of Roman civilization from the beginning to the empire of Constantine.		
HIST 5307	The High Middle Ages	3 cr.
An examination of European civilization in the eleventh, twelfth, and thirteenth centuries with emphasis on cultural and institutional developments.		
HIST 5310	The Renaissance and the Reformation	3 cr.
Transition from medieval to modern conditions, emphasizing social, economic, and cultural changes of the fourteenth and fifteenth centuries and the religious upheaval of the sixteenth century.		
HIST 5320	The Rise of Modern Europe	3 cr.
History of Europe in the seventeenth and eighteenth centuries.		
HIST 5330	French Revolution and Napoleon	3 cr.
Examines the origins, development, effects and enduring significance of the French Revolution and Napoleonic period, exploring changes in politics, culture, society and the economy that helped to define the modern era and world.		
HIST 5340	Nineteenth Century Europe	3 cr.
HIST 5343	Revolutionary Europe 1789 1848	3 cr.

An analysis of both the French and Industrial Revolutions and their legacies in early nineteenth century Europe. Topics will include the development of new ideologies, the rise of a class society, and the origins and course of the Revolutions of 1820, 1830, and 1848.

HIST 5344 Imperial Europe, 1848-1918 3 cr.

An analysis of the reordering of Europe following the Revolutions of 1848 and the Crimean War. Topics will include the consolidation of nation-states, the expansion of European overseas empires, the rise of mass politics, and the origins and course of the First World War.

HIST 5345 Europe in the Shadow of War, 1918-1945 3 cr.

An analysis of Europe during the interwar period and the Second World War. Topics will include the aftermath of the First World War, the rise of totalitarian regimes, and the origins and course of the Second World War.

HIST 5346 Postwar Europe, 1945-Present 3 cr.

An analysis of Europe during the postwar era. Topics will include the aftermath of the Second World War, the rise of Cold War antagonisms, postwar prosperity, European integration, and the eventual collapse of the Soviet Bloc.

HIST 5361 Tudor England 3 cr.

England from the Wars of the Roses to the death of Elizabeth, 1471-1603. Moves from Richard III's death on Bosworth field to Henry VIII and Anne Boleyn, Edward VI, "Bloody" Mary, and the Age of Elizabeth, with special emphasis on the Shakespearean Renaissance, the rise of Parliament, and the naval exploits of the English "Sea Dogs."

HIST 5362 Stuart England 3 cr.

The political, economic, and cultural history of England in the seventeenth century, 1603-1714.

HIST 5364 Modern Ireland: History and Culture 3 cr.

A survey of modern and contemporary Ireland from the 1798 rebellion to the present, with an emphasis on late modern Irish history and culture in transnational contexts.

HIST 5366 The British Empire 3 cr.

General survey of the British Empire and development of the British Commonwealth of Nations.

HIST 5367 The Age of Louis XIV 3 cr.

France in the seventeenth century. The course will focus on the formation of the modern state with a political-military bureaucracy that was imitated, like Versailles, on a lesser scale in other countries; the development of the French colonial empire, including Louisiana; and the dominant cultural, intellectual, scientific, and religious trends along with their impact elsewhere in Europe. Several slide lectures will illustrate the art and architecture of the period.

HIST 5368 Modern France 3 cr.

Major political, social, and economic forces that molded the French nation after 1815.

HIST 5371 Modern Germany, 1789-Present 3 cr.

An analysis of German history from the French Revolution to the present. Topics will include the formation of a German nation-state, the rise of radical nationalism, the Second World War and the Holocaust, and postwar Germany's economic and political development.

HIST 5373 History of the Hapsburg Empire 3 cr.

A study of the Hapsburg Empire from its emergence as a major power in the eighteenth century to the disintegration of Austria-Hungary in 1918.

HIST 5376 Modern and Contemporary Russia 3 cr.

Focus on late Imperial and Soviet periods.

HIST 5380 Europe's Quest for Power and Peace 3 cr.

A study of the major developments in European international relations with emphasis on diplomacy as an instrument of national policy. The first semester examines developments from the Congress of Vienna to the origins of the First World War; the second covers from the Versailles peace settlement through Second World War and the Cold War to the present. Either semester may be taken independently.

HIST 5381	Europe's Quest for Power and Peace	3 cr.
A study of the major developments in European international relations with emphasis on diplomacy as an instrument of national policy. The first semester examines developments from the Congress of Vienna to the origins of the First World War; the second covers from the Versailles peace settlement through Second World War and the Cold War to the present. Either semester may be taken independently.		
HIST 5383	The European Intellectual Tradition	3 cr.
This course is not a history of formal thought, but relates central ideas to political, economic, social, artistic, and scientific movements. The first semester concentrates on the earlier periods and the second semester on modern Europe. Either semester may be taken independently.		
HIST 5401	Latin American Cities	3 cr.
The course examines the formation and function of cities in Latin America beginning with Iberian and pre-Columbian antecedents and tracing urban development in Spanish and Portuguese America to the present day.		
HIST 5403	History of Mexico	3 cr.
Political, economic, and social developments from the colonial period to the present.		
HIST 5406	Caribbean Civilization	3 cr.
Survey of the West Indies, Central America, Colombia, and Venezuela from colonial to modern times.		
HIST 5501	The Colonial Period in American History	3 cr.
An examination of the establishment and development of the English colonies in North America.		
HIST 5502	The Revolutionary Period in American History	3 cr.
An analysis of the causes, progress, and consequences of the revolution in the British colonies of North America.		
HIST 5503	The Early U.S. Republic	3 cr.
Development of American political, social, and cultural institutions during the formative years of the new Republic.		
HIST 5506	Civil War and Reconstruction	3 cr.
A study of the wartime problems of the Union and Confederacy, the consequences of the war, and the efforts to create a new Union.		
HIST 5508	America in Transition 1877-1900	3 cr.
An intensive study of the rise of the United States as an industrial and world power with particular stress on the changing patterns within American society.		
HIST 5510	Recent American History	3 cr.
Historical evolution of the United States in recent times.		
HIST 5511	Recent American History	3 cr.
Historical evolution of the United States in recent times.		
HIST 5521	The New South	3 cr.
Political, social, and economic changes in the South since 1880.		
HIST 5543	United States Urban History	3 cr.
Departmental consent required. Urban development in the United States from the colonial town to the twentieth century megalopolis.		
HIST 5544	Religion in American History	3 cr.
The role of religion in American life from early colonial times to the Civil War.		
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The roles of women in urban American culture since World War II with emphasis on issues of gender, ethnicity, and class.		
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	A study of the organizations, leadership, and programs of late nineteenth and twentieth century movements that have sought escape from personal and institutional racism in the United States.	
HIST 5555	The Civil Rights Era	3 cr.
	An examination of race relations in the United States from the New Deal of the 1930s to the 1980s.	
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	The role of the constitution in the transformation of the federal union into the indivisible nation.	
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	Introduction to American military history from the colonial period to the end of the Cold War. The course emphasizes the conduct of major wars, defense policy, the development of the U.S. armed forces, civil-military relations, and technological innovation.	
HIST 5570	World War II-An International History	3 cr.
	A look at World War II from a global perspective: the intricate international diplomacy and strategic planning of the principal combatants; the war's major military campaigns and battles, its impact on the involved societies and economies, its brutal effect on victims, its difficult choices of appeasement/collaboration or resistance, as well as the postwar "mastering" of the war's harsh memories.	
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	An examination of the role the United States in the international arena and the nuclear arms race during the Cold War (1945-1989) and its repercussions on domestic politics.	
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	Historical evolution of American foreign policies since 1776.	
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	Ideas and beliefs which have shaped American life since the Civil War. Special attention to the impact of Darwinian evolution, idealism, and pragmatism, modernist and anti-modernist attitudes, the South, and radical and conservative critiques of American society.	
HIST 5587	American Social and Cultural History 1865 to the Present	3 cr.
	A study of the historical development of American Cultural and Social Movements, with an emphasis upon literature, art, architecture, and popular culture.	
HIST 5603	Research in New Orleans History	3 cr.
	Departmental consent required. A detailed survey of qualitative research techniques, their application to local and urban history, and the preparation of a written project based on primary research in New Orleans history.	
HIST 5991	Special Studies in History	3 cr.
	Topic may vary from semester to semester. The course may be repeated for credit.	
HIST 6001	Historical Writing and Thought	3 cr.
	Introduction to historical genres, proper usage and approaches to historical writing.	
HIST 6002	Historical Methodologies and Research Design	3 cr.
	Departmental consent required. This course introduces graduate-level students to historical methodologies and research design.	
HIST 6005	Graduate History Forum	0 cr.
	Recommended for all History graduate students until graduation. Online colloquium examines academic professional issues relevant to the historical field. Uses the UNO Moodle system. Departmental consent required.	
HIST 6008	Introduction to Public History	3 cr.
	Theoretical debates and practical considerations involved in presenting historical scholarship to the public through	

museums, documentary films, online exhibits and other venues.

HIST 6201	Seminar in World History	3 cr.
Departmental consent required. Intensive reading in the theories, methods, and practice of world, global, and transnational history, complemented by research on a particular topic within world history. Discussions, conferences, short reports, essay and/or research papers will be required. May be repeated for credit.		
HIST 6301	Seminar in European History	3 cr.
Departmental consent required. Intensive reading and research on a particular problem, area, or period of European history. Discussions, conferences, short reports, essays and/or research papers may be required. May be repeated for credit.		
HIST 6501	Seminar in American History	3 cr.
Intensive reading and research on a particular problem, area, or period of American history. Discussions, conferences, short reports, essays and/or research papers may be required. May be repeated for credit.		
HIST 6601	Seminar in Special Topics	3 cr.
Departmental consent required. Intensive reading and research on a particular problem, area, or period of history, including topics that are comparative in nature, focusing principally on areas of the world outside of the United States. Discussions, conferences, short reports, essays and/or research papers may be required. May be repeated for credit.		
HIST 6803	Seminar in Urban History	3 cr.
Intensive reading and research on urban, social, and cultural change. Focus will be on American, European, and/or Third World urban development, from the founding of initial settlements to the present day. Discussions, conferences, short reports, and essays will be required. May be repeated for credit.		
HIST 6992	History Internship	3 cr.
Prerequisite: consent of department. Supervised work with museums, historical societies, archives, libraries, governmental agencies or other public or private organizations appropriate to the student's course of study.		
HIST 6995	Independent Study	3 cr.
Prerequisite: consent of individual faculty member and approval by graduate coordinator. A plan for directed readings or research will be developed by the student and the individual faculty member. Open to degree students only. May be repeated once for credit.		
HIST 7000	Thesis Research	1 min. cr. - 9 max. cr.
To be repeated for credit until thesis is accepted. Section number will correspond with credit to be earned.		
HIST 7040	Examination Or Thesis Only	0 cr.
Open to students in a thesis program who have only (other than application for degree) the final typing and acceptance by the Graduate School of their thesis or dissertation or to students in a non-thesis program who have only (other than application for degree) to pass the final examination to complete graduation requirements.		



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## Hotel, Restaurant and Tourism Administration

HRT 2000 Introduction to Hotel, Restaurant, and Tourism Administration 3 cr.

A comprehensive survey of the lodging, food service, and travel industries emphasizing their historical development and current trends by examining the social, economic, technological, and geographic factors contributing to their evolution. Basic operating principles and industry concepts and terms are stressed. Guest lecturers are featured, affording students the opportunity to discuss hospitality careers with local industry executives and leaders.

HRT 2020 Hotel Operations 3 cr.

Study of the operating departments and functions of contemporary hotels. Topics will include analysis of commercial, transient, resort, and convention properties. The course will examine the management processes and problems in operating hotels.

HRT 2030 Principles of Food Production 3 cr.

A study of foodservice organizations utilizing the foodservice systems model as the framework for students to build a sound understanding of how managers can efficiently and effectively transform human, material, facility and operational resources to create meals, customer satisfaction, employee satisfaction, and financial accountability. The course will include demonstrations of the thirteen core cooking methods and a lab fee is required. Open only to Hotel, Restaurant and Tourism Administration majors.

HRT 2050 Principles of Travel and Tourism 3 cr.

An introduction to the principles of domestic and international tourism analyzing its history, organization and transportation modes; the motivation of travel and travel choice; tourism supply, demand, economic, and destination development; tourism marketing and research; and the future of tourism in international social and economic development.

HRT 2070 Introduction to the Conventions, Events, and Meetings Industry 3 cr.

The course serves as an introduction to the segment of the hospitality industry dealing with meetings, conventions, events, and incentive travel. The course provides a survey of the industry players; national associations; career opportunities; the wants and needs of the attendee as well as sponsors and organizers.

HRT 3002 Hotel, Restaurant, and Tourism Work Experience 1 cr.

The work experience will normally be completed during the progress through the HRT program. Students are advised that most benefit will be gained by completing this requirement in a number of positions that provide insight into a range of hospitality and tourism career tracks. The course consists of 600 hours of work experience that must be documented and approved on a pass/fail basis by the faculty advisor. Formal enrollment should take place when the 600 hours requirement is completed.

HRT 3011 Tourism and Hospitality Marketing 3 cr.

Prerequisite: MKT 3501. A survey of modern marketing theory and techniques as applied in the tourism and hospitality industry. Emphasis will be placed on services marketing, and topics include an analysis of hospitality customer needs, marketing planning, segmentation, positioning, and promotion.

HRT 3016            Legal Environment in the Hospitality Industry            3  
cr.

Nature and function of law and legal institutions in society; with emphasis on those areas of law most relevant to hospitality operations. Topics include attributes of hotels, licensing, regulation, hotel-guest and restaurant-patron relationship, obligations of hotels, guest property, rights of hotels and restaurants, sale of alcoholic beverages, and travel industry law.

HRT 3017            Service Organization Management in Hospitality            3 cr.

Principles and practices of service management as applied to the hospitality firm. Emphasis will be upon the human resource component of the organization as well as the practical application of theoretical concepts.

HRT 3140            Cost Control of Hospitality Operations            3 cr.

Prerequisite: ACCT 2130 and HRT 2030. Study of factors important in the control of expenses in food service and lodging operations. Topics will include: purchasing, receiving, storage, issuing, budgeting, menu pricing, labor cost control, and the use of source documents and forms.

HRT 3141            Management of Beverage Service            3 cr.

An advanced, comprehensive examination of beverage operations in the hospitality industry. Topics will include: purchasing, storing, issuing and serving alcoholic beverages; survey and study of wines, spirits, and beers; and a study of laws and social considerations pertaining to the serving of alcoholic beverages. Restricted to Hotel, Restaurant, and Tourism Administration majors.

HRT 3145            Layout, Design, and Maintenance of Hospitality Facilities            3 cr.

Prerequisite: HRT 2030. A study of facilities design and layout for effective delivery of hospitality services. Topics include equipment selection, space allocation, maintenance of the physical plant in hospitality facilities, principles of utilities management, ventilation, sanitation, acoustics, furniture and fixture selection, and maintenance.

HRT 3150            Tourism Planning and Operations            3 cr.

Prerequisite: HRT 2050. This course examines the tourism planning approach, considering political, physical, social, and economic elements as interrelated and interdependent components. The development process of various tourism products at the national, regional, and community levels will be examined including the functions of tour operators, wholesale and retail travel agencies.

HRT 3240            Club Management and Operations            3 cr.

An analysis of the operation and management of private and public clubs (golf, tennis, military, country clubs, professional, and business clubs).

HRT 3290            Hospitality Internship            3 cr.

Under the supervision of an HRT faculty member, the student will intern at the site of a participating organization for a specific research project or set of activities. Readings and other research activities may be assigned. Students desiring to take this course should apply a semester in advance for School approval. Only open to Hotel, Restaurant, and Tourism Administration majors. A minimum of eight hours per week at the site of a participating organization will be required.

HRT 3295            Independent Study in Hotel, Restaurant, and Tourism Administration    1  
min. cr. - 3 max. cr.

Offered each semester. Prerequisite: Approval of the directed individual study by the director of HRT and the supervising professor is required prior to registration. The student should refer to the College of Business Administration Policy on Undergraduate Directed Individual Study available in the School of Hotel, Restaurant, and Tourism Administration. Arranged individually in order to provide latitude for specialized study and research under the direction of a faculty member. Progress reports, readings, conferences, and a research paper are required. May be repeated for up to six hours credit.

HRT 4000            Policy Issues in Tourism and Hospitality            3 cr.

Prerequisites: FIN 3300, HRT 2000, 3011, 3017, and 3140 and senior standing or consent of the School. A case-oriented course in strategic planning and management in the hospitality industry. Students will analyze tourism

and hospitality industry cases to develop their skills in formulating and implementing business strategies. Not available for graduate credit.

HRT 4120            Advanced Lodging Operations Management            3 cr.

Prerequisites: HRT 2020 and 3017 and senior standing or consent of the School. An in-depth study of management practices employed in the operation of hotels, motels, resorts, cruise ships, and other institutional lodging facilities. This course will focus on the organizational structure and management concepts that are applied to lodging operations.

HRT 4150            Meeting, Event, and Convention Planning            3 cr.

Prerequisite: HRT 2070 or consent of department. This is an advanced course designed as the second course in the HRT Concentration in the Meetings, Events, Exhibitions, and Convention industry. This courses teaches how to plan, organize, staff and evaluate any meeting or event. The importance of this course is further justified given the increasingly important role meetings, events, exhibitions, and conventions play in both the local and national economies. Learning will take place through a combination of lectures, readings, guest speakers, and a term project.

HRT 4230            Advanced Food Service Management            3 cr.

Prerequisites: HRT 2030, 3140, and senior standing or the consent of the School. Planning and managing the commercial foodservice operation including independent restaurants, banquets and catering, cafeterias, institutional foodservice, and quick service restaurants. Topics will include forecasting and budgeting, menu development, staffing, establishing operational control, and management decision making.

HRT 4250            International Tourism            3 cr.

Prerequisites: HRT 2050, 3011, and senior standing or consent of department. A comprehensive examination of the complex world of international tourism as a modern mass cultural activity. The course will emphasize world geography and traveler flows, political environments and security relationships, government planning and destination development, economic development strategies and international competition, and the role of international agencies and organizations in world tourism.

HRT 4290            Special Topics in Hotel, Restaurant, and Tourism Administration    3 cr.

Prerequisite: consent of the school. An advanced study of contemporary issues in Hotel, Restaurant, and Tourism. May be repeated for credit when topics vary.

HRT 4319            Wines of the World            3 cr.

Prerequisite: HRT 3141 or consent of the department. An in-depth study of wine from vine to table and its role in the hospitality industry. The course will cover the wine regions of the world including, history, geography, climate, vineyards, producers, and styles of wine produced in each region. Topics include viticulture, enology, and grape varieties of world wine regions including France, Germany, Italy, Spain, Australia, New Zealand, Chile, Argentina, and the United States, among others. This course will provide students the opportunity to prepare for the Certified Wine Specialist (CSW) examination.

HRT 5150            Meeting, Event, and Convention Planning            3 cr.

Prerequisite: HRT 2070 or consent of department. This is an advanced course designed as the second course in the HRT Concentration in the Meetings, Events, Exhibitions, and Convention industry. This courses teaches how to plan, organize, staff and evaluate any meeting or event. The importance of this course is further justified given the increasingly important role meetings, events, exhibitions, and conventions play in both the local and national economies. Learning will take place through a combination of lectures, readings, guest speakers, and a term project.

HRT 5160            Theories of Casino Gaming            3 cr.

Prerequisite: MATH 2314. A study of theories pertinent to casino games including but not limited to craps, money wheel, slot machines, keno, blackjack, roulette, baccarat, and poker. Not available for graduate credit.

HRT 5250            International Tourism            3 cr.

Prerequisites: HRT 2050, 3011, and senior standing or consent of department. A comprehensive examination of the complex world of international tourism as a modern mass cultural activity. The course will emphasize world geography and traveler flows, political environments and security relationships, government planning and destination development, economic development strategies and international competition, and the role of

international agencies and organizations in world tourism.

HRT 5290 Special Topics in Hotel, Restaurant, and Tourism Administration 3 cr.  
Prerequisite: consent of the school. An advanced study of contemporary issues in Hotel, Restaurant, and Tourism. May be repeated for credit when topics vary.

HRT 6001 Survey of the Hospitality & Tourism Industry 3 cr.  
This course examines the areas of critical importance in the hotel, restaurant, and tourism industries. Students will be presented with a global knowledge of the industry, individual organizations, and current management trends and issues through the use of case studies. The management of hospitality organizations will be discussed in the context of various management related problems.

HRT 6102 Technology for Tourism & Hospitality Management 3 cr.  
This course is designed to investigate and present topics, trends, and issues of using technology in the hospitality and tourism industry. The course will focus on technology to manage information and examine the Internet as a management and marketing tool. This is a particularly dynamic area, crucial for the future success of managers, and it will feature presentations and interactions with industry professionals.

HRT 6200 Hospitality and Tourism Operations Analysis 3 cr.  
Prerequisite: HRT 6001 or consent of school. Qualitative and quantitative analysis of management/operational problems specific to the hospitality and tourism industry will be used to synthesize knowledge with the more advanced and unique aspects of hospitality/tourism operations. Management theories, marketing principles, financial concepts, and advanced analytical techniques are applied to the hospitality and tourism industry. Readings and case analysis are used to illuminate the diverse segments of the industry.

HRT 6202 Hospitality and Tourism Research Methods 3 cr.  
This course is designed to introduce students to the research function using both descriptive and inferential statistics. This course will aid students in understanding the role of information in decision-making and in learning the techniques involved in acquiring information. Students will learn the research process and be able to evaluate the appropriateness of research methodology.

HRT 6203 Marketing Applications for Hospitality & Tourism Industry 3 cr.  
This course is designed to apply the fundamentals of marketing to the hospitality and tourism industry. It involves understanding that the world around us alters the decisions we make about our product/service, price, distribution, and communications. Emphasis will be on strategic marketing and the development of marketing plans.

HRT 6204 Hospitality & Tourism Internship 3 cr.  
This supervised internship allows students to learn by working with the sponsoring hospitality or tourism organization to critically examine a major aspect of their operations. Objectives are set and evaluation is accomplished jointly by the program coordinator, the student, and the on-site supervisor. A research report on the internship is required.

HRT 6205 Change Management for Hospitality & Tourism 3 cr.  
This course examines the critical area of change management in a service quality environment. It discusses the components of leadership, change management, and human resource management that have increasingly become recognized as the main drivers of success for all hospitality and tourism organizations. The course sets these components within the quality improvement framework. It further examines the development of the quality movement and the issues of measuring quality within the hospitality and tourism context.

HRT 6207 Work Experience in the Hospitality and Tourism Industry 0 cr.  
The work experience is only available to students enrolled in the Master of Science in HTM as a required course and to the College of Business Administration MBA students with an HRT option. The course consists of 400 hours of work experience, approved in advance by the graduate coordinator of the Master of Science program in HRT. Formal enrollment must take place no later than the second semester of enrollment in the graduate program.

HRT 6250 Tourism Destination Development 3 cr.  
Prerequisite: HRT 6001 or consent of school. Planning, development, and marketing of tourism at the destination level, from small communities to cities, regions, or countries. Approaches and guidelines for the integrated and sustainable development of tourism that is coherent with community needs, and for the marketing of tourism

destination. The social, environmental, and economic costs and benefits of tourism with their implications for planning and management. This course will require an active participation of the students through the presentation of cases, and the elaboration of tourism development and marketing plans.

HRT 6300 Hospitality & Tourism Finance & Revenue Management 3 cr.

This course examines the critical areas of financial management and revenue maximization as applied to the hospitality and tourism industry. Course topics include interpretation and analysis of financial statements, forecasting, budget preparation and analysis, and applications of Cost-Volume-Profit and Yield Management models. Emphasis will be placed upon the integration of financial management with revenue maximization.

HRT 6301 Hospitality & Tourism Industry Strategic Management 3 cr.

Concepts and formulation of business strategy are analyzed and determined in the framework of the total business environment. Roles and actions of top management and supervisory personnel in developing and implementing policy and strategy are examined in the highly competitive settings of the hospitality and tourism industry. Case studies are utilized to solve problems in the classroom. This course should be taken in the final semester of study and it will draw extensively upon the knowledge and skills acquired throughout the program. Open to M.S. in Hospitality and Tourism Management students only.

HRT 6491 Independent Study In Hospitality & Tourism 3 cr.

Prerequisite: consent of department. Readings, weekly or biweekly reports, conferences, and a research paper under the direction of a graduate faculty member is required.

HRT 6495 Special Topics in Hospitality & Tourism 3 cr.

An intensive study of selected special topics in hospitality and tourism management. Topics will vary based on contemporary needs as dictated by the discipline as well as the interests of the students and the instructor.

HRT 7000 Thesis Research 3 min. cr. -  
6 max. cr.

Offered each semester. Prerequisite: HRT 6202 and permission of the department. To be repeated for credit until thesis is accepted.

HRT 7040 Examination or Thesis Only No Credit 0 cr.

Open to students in a thesis program who have only (other than application for degree) on the final typing and acceptance by the Graduate School of their thesis or to students in a non-thesis program who have only (other than application for degree) to pass the final examination to complete graduation requirements.



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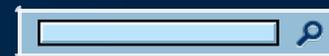
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## Human Performance

EDHP 2110      Foundations of Human Performance and Health Promotion      3 cr.  
The study of the history, principles, philosophies, and social foundations of health and physical education.

EDHP 2170      Measurement and Evaluation in Human Performance and Health Promotions  
3 cr.

Prerequisite: Complete at least one three-credit Math course at or above the 1000 level, EDHP 2110, or consent of department. A study of the fundamental aspects of the measurement and evaluative process. Principles and practices concerning the construction, use, administration, and interpretation of evaluative instruments in human performance and health promotions in school and nonschool settings.

EDHP 2320      Methods of Physical Education and Coordinated School Health in the Elem Schools      3 cr.

Prerequisite: EDUC 2200 or concurrent enrollment in EDUC 2200. A course designed for the physical education and elementary education teacher candidate. Focus is on teaching skills and age-appropriate curriculum in health and physical education for grades PK-6. This course includes field experiences and meets for a total of four hours weekly.

EDHP 3200      Kinesiology and Biomechanics      3 cr.

Prerequisite: BIOS 1301, 1303, 1311, and 1313; EDHP 2110; or consent of the department. Special emphasis is given to factors influencing movement; mechanics of movable parts and means of voluntary control; action of joints and muscles in natural movements in daily life in gymnastics in dance and in sports; and the mechanics of posture and common abnormalities of spine and foot.

EDHP 3201      Physiology of Exercise      3 cr.

Prerequisites: BIOS 1301, 1303, 1311, and 1313; EDHP 2110; MATH 1115 and 1116 or MATH 1125 and 1126; or other more advanced Math courses. A study of the central concepts of interdependence of bodily systems during human movement. Emphasis is placed on the effects of exercise and athletic training upon the systems of the body.

EDHP 3210      Principles of Motor Development and Motor Learning      3 cr.

Prerequisite: EDHP 2110 or consent of department. A study of the foundations of physical growth and development. The course focuses upon the emergence of motor patterns and skills as a result of growth, maturation, and learning during the period of infancy through adolescence.

EDHP 3217      Psychological Aspect of Sport and Exercise      3 cr.

Prerequisites: EDHP 2110 or consent of department. An introduction and overview of the psychological aspects of sport and exercise. Motivation, arousal/anxiety, cooperation/competition, group and team dynamics, leadership, exercise adherence, psychological skills development, and prosocial development through sport will be discussed within their theoretical frameworks and emphasizing practical application.

EDHP 3330      Exercise Physiology Laboratory Methods      3

cr.

Prerequisites: BIOS 1301, 1303, 1311, 1313; EDHP 2110, MATH 1115 and 1116 or MATH 1125 and 1126 or other more advanced Math courses. This course is designed to expose students to exercise physiology laboratory methods while developing physical fitness assessment and evaluation skills.

EDHP 4222      Physical Fitness Programming      3 cr.

Prerequisite: EDHP 3201 or 6220 or 6402 or consent of department. Provides skills for physical fitness programming in schools, hospitals, and fitness centers. Training will emphasize techniques used for implementing an individualized exercise program as well as strategies for behavior change.

EDHP 4223      Fitness Programming for Special Populations      3 cr.

Prerequisites: EDHP 3201 or 6220 or 6402 or consent of department. The purpose of this course is to provide the knowledge and skills for conducting fitness assessments and designing exercise programs for persons with chronic diseases and disabilities. This course will not count towards teacher certification in adapted physical education.

EDHP 4225      Applied Exercise Physiology: Cardio-respiratory Rehabilitation      3 cr.

Prerequisite: EDHP 3201 or 6220 or consent of department. Exercise principles and practices that have application for professionals that work for the prevention of cardio-respiratory diseases or for the rehabilitation of persons so affected.

EDHP 4480      Evaluation and Treatment of Sports Injuries      3 cr.

Prerequisite: EDHP 3200 or consent of department. A study of the principles and practices related to the care of the injured. There is special emphasis on care of athletic injuries. One hour of lecture and four hours of laboratory.

EDHP 4522      Sport Management      3 cr.

Prerequisite: EDHP 2110 or consent of department. Principles of sport and athletic administration for the private sector and for interscholastic and intercollegiate athletic programs. Sample topics include marketing, computer applications, legal knowledge, financing, facilities, and contest management.

EDHP 4524      Sport Marketing      3 cr.

Prerequisite: EDHP 2110 or consent of department. Provides the foundations for the rapidly emerging discipline of sport marketing. Focuses on the theoretical and research issues a sports marketer confronts. The four P's of product, price, promotion, and place within the uniqueness of sport and exercise marketing are featured.

EDHP 4528      Sport Facilities and Event Management      3 cr.

Prerequisite: EDHP 2110 or consent of department. Designed to equip sport management professionals with the skills and competencies to manage and operate sport, recreation, fitness, convocation, convention, and other public and private assembly facilities for both on-going and special events. Concepts related to design construction, and technical aspects are also developed.

EDHP 4990      Special Topics in Human Performance      3 cr.

Prerequisite: consent of department. Topics may vary from semester to semester. This course may be repeated once for credit.

EDHP 4998      Practicum in Human Performance      1 min. cr. - 6  
max. cr.

Prerequisites: Junior standing or higher, completion of a minimum of 50 percent of the required EDHS/EDHP undergraduate courses and/or consent of department. Supervised experiences in cardiovascular fitness, physical education, physical fitness, coaching, programs for the aging, or related topics. This course may be repeated but total credit may not exceed six semester hours.

EDHP 5222      Physical Fitness Programming      3 cr.

Prerequisite: EDHP 3201 or 6220 or 6402 or consent of department. Provides skills for physical fitness programming in schools, hospitals, and fitness centers. Training will emphasize techniques used for implementing an individualized exercise program as well as strategies for behavior change.

EDHP 5522      Sport Management      3 cr.

Prerequisite: EDHP 2110 or consent of department. Principles of sport and athletic administration for the private

sector and for interscholastic and intercollegiate athletic programs. Sample topics include marketing, computer applications, legal knowledge, financing, facilities, and contest management.

EDHP 5524 Sport Marketing 3 cr.

Prerequisite: EDHP 2110 or consent of department. Provides the foundations for the rapidly emerging discipline of sport marketing. Focuses on the theoretical and research issues a sports marketer confronts. The four P's of product, price, promotion, and place within the uniqueness of sport and exercise marketing are featured.

EDHP 5528 Sport Facilities and Event Management 3 cr.

Prerequisite: EDHP 2110 or consent of department. Designed to equip sport management professionals with the skills and competencies to manage and operate sport, recreation, fitness, convocation, convention, and other public and private assembly facilities for both on-going and special events. Concepts related to design construction, and technical aspects are also developed.

EDHP 5990 Special Topics in Human Performance 3 cr.

Prerequisite: consent of department. Topics may vary from semester to semester. This course may be repeated once for credit.

EDHP 5998 Practicum in Human Performance 1 min. cr. - 6 max.

cr.

Prerequisites: Junior standing or higher, completion of a minimum of 50 percent of the required EDHS/EDHP undergraduate courses and/or consent of department. Supervised experiences in cardiovascular fitness, physical education, physical fitness, coaching, programs for the aging, or related topics. This course may be repeated but total credit may not exceed six semester hours.

EDHP 6990 Independent Study in Human Performance 1 min. cr. - 3 max.

cr.

Prerequisite: EDHP 6170, EDFR 6700, and advanced graduate standing with consent of department and major professor. Investigation of pertinent problems under the direction of a graduate faculty member. This course may be repeated but total credit may not exceed six semester hours. Section number will correspond with credit to be earned.

EDHP 6998 Internship in Human Performance 1 min. cr. - 6 max. cr.

Prerequisite: consent of department. Provides a supervised experience in one of the professional domains of the human performance discipline including clinical movement, exercise physiology, gerontology, sport and exercise psychology, sport management, and others.

EDHP 7040 Examination or Thesis Only in Human Performance 0 cr.

No credit. Open to students in a thesis program who have only (other than application for degree) the final typing and acceptance by the Graduate School of their thesis or dissertation or to students in a non-thesis program who have only (other than application for degree) to pass the final examination to complete graduation requirements.



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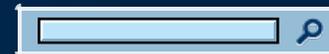
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## International Studies

IS 3060 Model United Nations 3 cr.

Prerequisite: Consent of the Director of International Studies. The course is designed to familiarize students with the United Nations system, current issues facing the international community, the range and nature of global perspectives of other countries, and the means and methods of caucusing and consensus building among international actors with different interests. The course will prepare selected students to compete in the annual National Model United Nations Conference.

IS 4990 Senior Honors Thesis 3 cr.

Prerequisites: Consent of International Studies program director. Directed research leading to the writing of an International Studies Honors Thesis. The thesis project will be determined by mutual agreement between the student, a faculty member who will supervise the project, and the director of the Honors Program. The student must satisfactorily defend the thesis to a committee composed of the faculty thesis advisor, the director of the International Studies Program, and the director of the Honors Program. In order to complete the Honors Requirement of the program, the course must be repeated once for a total of 6 credit hours.

IS 4998 Internship in International Studies 3 min. cr. - 6 max. cr.

Prerequisites: consent of the director of International Studies. An internship is a requirement for the IS degree. The internship may be either student-initiated or faculty/administrator-initiated. Internships are available in local consular offices, corporations, and non-governmental and governmental agencies, or can be arranged through our international exchange partners abroad. A 3-hour credit involves 120 hours of work during the semester or summer term. The 3-credit hour internship may be taken two times for a maximum of 6 hours of credit. A 6-credit hour internship requires 240 hours of work during the semester or summer term, and cannot be taken more than once.

IS 4999 Honors Internship in International Studies 3 min. cr. - 6 max. cr.

Prerequisite: consent of the director of the International Studies. The internship requirement for the IS degree includes at least 3 but no more than 6 hours of credit. A 3-hour credit involves 120 hours of work during the semester or summer term. Students may repeat a 3-hour credit internship or do a second 3-hour credit internship at another agency with the permission of the director of International Studies. The internship may be either student-initiated or faculty/administrator initiated. Internships are available in local consular offices, corporations, and non-governmental and governmental agencies, or can be arranged through our international exchange partners abroad. A 6-hour credit internship is possible for students who work with agencies abroad or in nationally-recognized agencies in Washington, DC; New York; or other international centers. The 6-hour credit involves 240 hours of work during the semester or summer term. Whether they repeat a 3-hour credit internship or complete a single 6-hour credit internship, students may apply only 3 hours of internship credit to their concentration. In addition to meeting the requirements for IS 4998, students in IS 4999 will develop a PowerPoint presentation on their internship agency and experience to present at a BAIS internship workshop. Moreover, students in IS 4999 will write a 15 page paper, instead of the 8-10 pages required of students in 4998.



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## Italian

Placement of students with high school preparation in Italian: students with sufficient preparation in Italian may enter the second, third, or fourth semester course in that language, thus completing the foreign language requirement in fewer semesters. Students interested in taking placement tests should contact the Foreign Language departments. Language courses in the 1001, 1002, 2001, 2002 sequence must be taken in that order.

### ITAL 1001 Basic Italian

I 3 cr.

The first in a sequence of courses developing all four language skills; speaking, understanding, writing, and reading. No previous knowledge of the language required.

### ITAL 1002 Basic Italian

II 3 cr.

Prerequisite: ITAL 1001 or consent of department. A continuation of the development of the four language skills.

### ITAL 2001 Intermediate Italian

I 3 cr.

Prerequisite: ITAL 1002 or consent of department. A continuation of the development of the four language skills with emphasis on reading and understanding.

### ITAL 2002 Intermediate Italian

II 3 cr.

Prerequisite: ITAL 2001 or consent of department. A continuation of the development of the four language skills with special emphasis on oral expression in the language.

### ITAL 3191 Independent Work

1 cr.

Prerequisite: consent of department. Readings and conferences under the direction of a member of the faculty. The course introduces the student to major authors and movements of Italian literature. Each course may be repeated, but combined credit may not exceed six semester hours.

### ITAL 3192 Independent Work

1 cr.

Prerequisite: consent of department. Readings and conferences under the direction of a member of the faculty. The course introduces the student to major authors and movements of Italian literature. Each course may be repeated, but combined credit may not exceed six semester hours.

### ITAL 3193 Independent Work

1 cr.

Prerequisite: consent of department. Readings and conferences under the direction of a member of the faculty. The course introduces the student to major authors and movements of Italian literature. Each course may be repeated, but combined credit may not exceed six semester hours.



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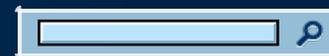
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## Japanese

JAPN 1001      Basic Japanese I  
3 cr.

A sequence of courses for beginners that aims at the acquisition of the four basic language skills: speaking, understanding, reading, and writing. The mastery of basic language structures will be achieved through aural-oral exercises and practice. The Japanese writing system will be introduced from the beginning (all Katakana and Hiragana). Kanji (Chinese characters) will be gradually introduced later in the first course.

JAPN 1002      Basic Japanese II      3  
cr.

A continuation of JAPN 1001.

JAPN 2001      Intermediate Japanese      3  
cr.

Continuation of the development of all four language skills: speaking, understanding, reading, and writing. The course includes the study of approximately 100 Japanese characters, and the presentation and discussion of Japanese culture.

JAPN 2002      Intermediate Japanese      3  
cr.

Continuation of the development of all language skills: speaking, understanding, reading, and writing. The course includes the study of additional Japanese characters and the presentation and discussion of aspects of Japanese culture.

JAPN 3031      Japanese Conversation      3  
cr.

Prerequisite: JAPN 2002 or consent of department. Conversation, oral discussions, interpretations, and reports; practicing the spoken language.

JAPN 3191      Independent Work      1  
cr.

Prerequisite: JAPN 2002 and consent of department. Readings, conferences, and papers under the direction of a member of the faculty. The course allows the student to correlate and supplement the work covered in the regularly offered departmental courses. The sequence of 3191, 3192, and 3193 may be repeated, but combined credit may not exceed six semester hours.

JAPN 3192      Independent Work      1 cr.

Prerequisite: JAPN 2002 and consent of department. Readings, conferences, and papers under the direction of a member of the faculty. The course allows the student to correlate and supplement the work covered in the regularly offered departmental courses. The sequence of 3191, 3192, and 3193 may be repeated, but combined credit may not exceed six semester hours.

JAPN 3193      Independent Work      1  
cr.

Prerequisite: JAPN 2002 and consent of department. Readings, conferences, and papers under the direction of a member of the faculty. The course allows the student to correlate and supplement the work covered in the regularly offered departmental courses. The sequence of 3191, 3192, and 3193 may be repeated, but combined credit may not exceed six semester hours.



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## Journalism

The completion of English 1158 is required of all students and is prerequisite to all courses. To be eligible for Journalism courses numbered 3000 to 4999, students must have completed 45 hours of coursework.

JOUR 2700 Introduction to Journalism 3 cr.

Introduction to news gathering, copy, and continuity composition, basic skills and techniques of journalism in public relations, advertising, and the mass media. (Not available for credit for Speech-Education degree.)

JOUR 2790 Special Topics in Journalism 3 cr.

Prerequisite: English 1158. Writing-intensive study of key topics in journalism. Topic will vary from semester to semester. May be taken twice for a maximum of 6 credit hours.

JOUR 2791 Independent Study 1 cr.

Admission by consent of department. Reading, conferences, and preparation of articles, reports, and special projects concerning print journalism under direction of a member of the journalism faculty.

JOUR 2792 Independent Study 1 cr.

Admission by consent of department. Reading, conferences, and preparation of articles, reports, and special projects concerning print journalism under direction of a member of the journalism faculty.

JOUR 2793 Independent Study 1 cr.

Admission by consent of department. Reading, conferences, and preparation of articles, reports, and special projects concerning print journalism under direction of a member of the journalism faculty.

JOUR 3760 Educational Journalism 3 cr.

The editorial, business, and mechanical techniques of producing school publications. Designed for school publications advisers.

JOUR 4700 Advanced Journalism 3 cr.

Prerequisites: JOUR 2700, ENGL 2155, or consent of department. Writing-intensive study in advanced news reporting, news writing, and news editing.

JOUR 4710 Feature Writing 3 cr.

Reporting and writing of non-fiction feature stories in magazines, newspapers, and websites.

JOUR 4791 Special Topics in Journalism

3 cr.

Writing-intensive study of key topics of journalism. Topic will vary from semester to semester. May be repeated once for credit.

JOUR 4792      Independent Study      3  
cr.

Prerequisite: at least junior standing and consent of department. Readings, conferences, reports, or a major research project under the direction of a faculty member. May be repeated once for credit.

JOUR 5700      Advanced Journalism  
3 cr.

Prerequisites: JOUR 2700, ENGL 2155, or consent of department. Writing-intensive study in advanced news reporting, news writing, and news editing.

JOUR 5710      Feature Writing      3  
cr.

Reporting and writing of non-fiction feature stories in magazines, newspapers, and websites.

JOUR 5791      Special Topics in Journalism      3  
cr.

Writing-intensive study of key topics of journalism. Topic will vary from semester to semester. May be repeated once for credit.

JOUR 5792      Independent Study  
3 cr.

Prerequisite: at least junior standing and consent of department. Readings, conferences, reports, or a major research project under the direction of a faculty member. May be repeated once for credit.



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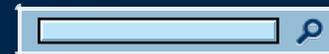
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## Management

- MANG 2472 Business Communication Oral 3 cr.**  
Offered each semester. An extensive study of oral business communication techniques, including use of visual aids. Students make oral presentations individually and in groups relating to a variety of business problems (e.g., analysis of quarterly, annual, and other financial reports; results of feasibility studies or of surveys; conducting directive and non-directive interviews; dictating skills etc.).
- MANG 2790 Business Communication 3 cr.**  
Prerequisite: ENGL 1158 and BA 2780. This course will introduce students to the interaction of business communications and information technology in the 21st century workplace. Students will learn how to use computer networks to facilitate the following tasks: compose and submit routine business messages; interact with peers on problem-solving teams; research, draft, format, and submit hypermedia reports; create and deliver business presentations; seek and maximize job-search resources.
- MANG 3070 Managing the Family Business 3 cr.**  
This course provides concepts and constructive techniques that will enable students to understand the dynamics and underlying components of the family business system. The course will allow the student to examine the complementary nature of family and business components in the successfully functioning family business. A major focus of the course is to allow the students to understand and analyze the sources for conflict associated with family businesses and to develop resources and intervention techniques to facilitate successful resolution of the conflict.
- MANG 3071 Franchise Management 3 cr.**  
For those interested in starting and managing a business, as either a franchisor or franchisee. Attention is given to the nature of the franchisor-franchisee relationship, the evaluation of franchising opportunities, financing, legal issues, promotion, site location, and business planning. Lectures, student presentations, guest speakers, case studies, and field trips are used.
- MANG 3090 Internship in Management 3 cr.**  
Prerequisite: Management 3401 and 3402 or consent of department. of department. This course will permit undergraduates to be engaged at least ten hours per week at the site of an assigned participating organization that directs the interns in specific projects relating to their majors. Students wishing to take this course should apply a semester in advance since enrollment is limited by internships available. This course may be repeated once for credit.
- MANG 3099 Senior Honors Thesis 3 cr.**  
Offered each semester. Prerequisite: consent of department and Honors Program Director. Extended and original research paper upon a topic of current concern in management under direction of a faculty member. Section number will correspond with credit to be earned.
- MANG 3401 Introduction to Management and Organizational Behavior 3 cr.**  
Offered each semester. Prerequisites: ACCT 2100 and ECON 1203 or 1200. An examination of management



Prerequisite for MANG 5422: MANG 3401 or MANG 4400.

Advanced elective to enhance students' understanding of organizational politics and dynamics. Topics to include: career management, assertiveness, power and the political process, and stress in organizations.

MANG 4424 Leadership in Organizations 3 cr.

Prerequisite for MANG 4424: Management 3401 or consent of department.

Prerequisite for MANG 5424: Management 3401 or MANG 4400 or consent of department.

An in-depth examination of leadership in organizations. Emphasis is upon theory and application of leadership in a variety of situations and organizational settings.

MANG 4426 Change Management 3 cr.

(Same as ENMG 4130, Change Management). Prerequisite: MANG 3401 or MANG 4400. This course is designed to provide techniques and principles concerning how to introduce change into organizations. Emphasis will be on the three phases of change; initiating change, implementing change, and institutionalizing change. Means of applying change principles will be developed through the use of templates and worksheets.

MANG 4446 International Management 3 cr.

Prerequisite for MANG 4446: MANG 3401.

Prerequisite for MANG 5446: MANG 3401 or MANG 4400.

Students may receive graduate credit for only one of MANG 4446, MANG 5446 or MANG 6446. Primary attention of this course will be focused on the comparative study of the practice of management in selected countries under different environmental conditions. The economic, legal, political, social, and cultural differences and the effects of these differences upon business objectives, plans, organization, and operation will be examined.

MANG 4468 HRM Strategy and Compensation Systems 3 cr.

Students may receive graduate credit for only one of MANG 4468, MANG 5468 or MANG 6468. The basic components of human resource management strategies, the compensation process and employee benefits programs.

MANG 4469 Staffing and Developing Human Resources 3 cr.

Students may receive graduate credit for only one of MANG 4469, MANG 5469 or MANG 6469. The design and implementation of programs necessary to attract and develop a competent workforce. Focus on the theories and techniques of human resource planning, staffing, development, career advancement, and voluntary and involuntary termination. Emphasis on practical applications prepares students to perform or manage the relevant tasks associated with staffing and development in a modern human resources function.

MANG 4470 Employment Law for Managers 3 cr.

Students may receive credit for only one of MANG 4470, MANG 5470 or MANG 6470. This course is a study and analysis of the legal environment of human resource management with emphasis on the impact of equal opportunity legislation on recruitment, selection, testing, evaluation, discipline, and termination of employees.

MANG 4471 Quality Management 3 cr.

(MANG 4471 and ENMG 4471 are cross-listed)

Prerequisite for MANG 4471: MANG 3402 or consent of department.

Prerequisite for MANG 5471: MANG 3402 or MANG 4400 or consent of department.

Students may receive graduate credit for only one of MANG/ENMG 4471, MANG 5471 or MANG 6471. Describes the basic concepts of quality planning and quality control. Discussion on quality improvement plans, Deming philosophy, and Juran's quality trilogy, the Deming prize and Baldrige award for quality excellence, and quality circles. Study of the statistical approach to quality control and the use of control charts and other quality control tools. Case studies from around the world on the implementation of total quality management.

MANG 4473 Environmental Management 3 cr.

Prerequisite for MANG 4473: Senior standing or consent of department. Prerequisite for MANG 5473: Graduate standing or consent of department.

Examination of the impact of environmental issues on organizational structure and operations from a management

perspective with a focus on how environmental concerns create threats opportunities and affect organizational strategic management. Discussion of current environmental issues involving research and development, legislation, regulatory policies, and technological advances in environmental management and examination of the new "corporate culture" that integrates environmental considerations into organizational design. A special emphasis will be placed on public perceptions of environmental issues and how they affect business strategy.

MANG 4480 Business Policies and Problems 3 cr.

Offered each semester. Prerequisites: MANG 3402, MKT 3501, FIN 3300, and senior standing. Specific problems involved in the formulation of consistent business policies and maintenance of an efficient organization. This course is not open to graduate students.

MANG 4487 Organization Behavior 3 cr.

Prerequisite: MANG 3401 or consent of instructor. May not be taken for credit in the MBA program. Not for graduate credit. A study of the problems of obtaining purposeful action through formal and informal business organizations. The development of skills in administrative relations with people focusing on ethical behavior in motivation, leadership, and communication.

MANG 4497 Current Topics in Management 3 cr.

Prerequisite for MANG 4497: MANG 3401 or consent of department.

Prerequisite for MANG 5497: MANG 3401 or MANG 4400 or consent of department.

Designed as a seminar to expose the student to current research and theory in a variety of management topics. May be repeated once for credit

MANG 4710 Innovation Management 3 cr.

Prerequisites: senior standing. Course discussion includes basic concepts involved with managing innovation in an organizational setting, the relationship between innovation and strategic planning, methods for fostering creativity and innovation in an organization, and guidelines for overcoming barriers to implementing innovative ideas within organizational structures.

MANG 4730 Business Information Systems Analysis and Design 3 cr.

Prerequisite: MANG 3778 or ACCT 3141. A student may not receive graduate credit for both MANG 4730 and MANG 6730. Deals with theories and techniques for analysis of information requirements and design, development, and implementation of computer-based information systems. Examples are life cycle, prototyping, end-user computing.

MANG 4740 Network Security Management 3 cr.

Prerequisite: MANG 3778 or ACCT 3141. A student may not receive graduate credit for both Management 4740 and 6740. Introduces network and security management topics. The business value of network resources is discussed, the threats to these resources are identified, and approaches to solving network security problems are studied. Hands-on experience is provided through student projects and lab sessions. Business cases in network management are discussed in class with emphasis on security issues.

MANG 4750 Knowledge Management 3 cr.

Prerequisite for MANG 4750: MANG 3778.

Prerequisite for MANG 5750: MANG 3778 or ACCT 3141 or MANG 4400.

This course is an introduction to the theories, methodologies, and technologies to develop, store, share, and apply actionable information.

MANG 4760 Managing Electronic Commerce 3 cr.

Prerequisite: MANG 3778 or ACCT 3141. Electronic commerce environment and business opportunities are described. Approaches to building a business on the Internet are discussed, and technologies facilitating Internet business operations are described. Internet business models including those for virtual organizations, electronic payment schemes, security, and promotion are discussed.

MANG 5407 Innovation Management 3 cr.

Prerequisites: senior standing. Course discussion includes basic concepts involved with managing innovation in an organizational setting, the relationship between innovation and strategic planning, methods for fostering creativity and innovation in an organization, and guidelines for overcoming barriers to implementing innovative

ideas within organizational structures.

MANG 5420 Organizational Theory 3 cr.

Prerequisite for MANG 4420: Management 3401 or consent of department. Prerequisite for MANG 5420: Management 3401 or MANG 4400 or consent of department.

May not receive graduate credit for both MANG 4420, MANG 5420 and MANG 6420. Designed to present general theory and analysis of organization design and structure. Includes a survey of both classical and contingency theories of organization, structure and process approaches to organizational design, and major dimensions of organizational design. Includes discussion of principles of organizational analysis with case studies.

MANG 5422 Organizational Politics 3 cr.

Prerequisite for MANG 4422: MANG 3401.

Prerequisite for MANG 5422: MANG 3401 or MANG 4400.

Advanced elective to enhance students' understanding of organizational politics and dynamics. Topics to include: career management, assertiveness, power and the political process, and stress in organizations.

MANG 5424 Leadership in Organizations 3 cr.

Prerequisite for MANG 4424: Management 3401 or consent of department.

Prerequisite for MANG 5424: Management 3401 or MANG 4400 or consent of department.

An in-depth examination of leadership in organizations. Emphasis is upon theory and application of leadership in a variety of situations and organizational settings.

MANG 5426 Change Management 3 cr.

(Same as ENMG 4130, Change Management). Prerequisite: MANG 3401 or MANG 4400. This course is designed to provide techniques and principles concerning how to introduce change into organizations. Emphasis will be on the three phases of change; initiating change, implementing change, and institutionalizing change. Means of applying change principles will be developed through the use of templates and worksheets.

MANG 5446 International Management 3 cr.

Prerequisite for MANG 4446: MANG 3401.

Prerequisite for MANG 5446: MANG 3401 or MANG 4400.

Students may receive graduate credit for only one of MANG 4446, MANG 5446 or MANG 6446. Primary attention of this course will be focused on the comparative study of the practice of management in selected countries under different environmental conditions. The economic, legal, political, social, and cultural differences and the effects of these differences upon business objectives, plans, organization, and operation will be examined.

MANG 5468 HRM Strategy and Compensation Systems 3 cr.

Students may receive graduate credit for only one of MANG 4468, MANG 5468 or MANG 6468. The basic components of human resource management strategies, the compensation process and employee benefits programs.

MANG 5469 Staffing and Developing Human Resources 3 cr.

Students may receive graduate credit for only one of MANG 4469, MANG 5469 or MANG 6469. The design and implementation of programs necessary to attract and develop a competent workforce. Focus on the theories and techniques of human resource planning, staffing, development, career advancement, and voluntary and involuntary termination. Emphasis on practical applications prepares students to perform or manage the relevant tasks associated with staffing and development in a modern human resources function.

MANG 5470 Employment Law for Managers 3 cr.

Students may receive credit for only one of MANG 4470, MANG 5470 or MANG 6470. This course is a study and analysis of the legal environment of human resource management with emphasis on the impact of equal opportunity legislation on recruitment, selection, testing, evaluation, discipline, and termination of employees.

MANG 5471 Quality Management 3 cr.

(MANG 4471 and ENMG 4471 are cross-listed)

Prerequisite for MANG 4471: MANG 3402 or consent of department.

Prerequisite for MANG 5471: MANG 3402 or MANG 4400 or consent of department.

Students may receive graduate credit for only one of MANG/ENMG 4471, MANG 5471 or MANG 6471. Describes the basic concepts of quality planning and quality control. Discussion on quality improvement plans, Deming philosophy, and Juran's quality trilogy, the Deming prize and Baldrige award for quality excellence, and quality circles. Study of the statistical approach to quality control and the use of control charts and other quality control tools. Case studies from around the world on the implementation of total quality management.

MANG 5473      Environmental Management      3 cr.

Prerequisite for MANG 4473: Senior standing or consent of department. Prerequisite for MANG 5473: Graduate standing or consent of department.

Examination of the impact of environmental issues on organizational structure and operations from a management perspective with a focus on how environmental concerns create threats opportunities and affect organizational strategic management. Discussion of current environmental issues involving research and development, legislation, regulatory policies, and technological advances in environmental management and examination of the new "corporate culture" that integrates environmental considerations into organizational design. A special emphasis will be placed on public perceptions of environmental issues and how they affect business strategy.

MANG 5497      Current Topics in Management      3 cr.

Prerequisite for MANG 4497: MANG 3401 or consent of department.

Prerequisite for MANG 5497: MANG 3401 or MANG 4400 or consent of department.

Designed as a seminar to expose the student to current research and theory in a variety of management topics. May be repeated once for credit

MANG 5730      Business Information Systems Analysis and Design      3 cr.

One-time waiver.

MANG 5750      Knowledge Management      3 cr.

Prerequisite for MANG 4750: MANG 3778.

Prerequisite for MANG 5750: MANG 3778 or ACCT 3141 or MANG 4400.

This course is an introduction to the theories, methodologies, and technologies to develop, store, share, and apply actionable information.

MANG 6401      Seminar in Organizational Behavior      3 cr.

(MANG 6401 and ENMG 6401 are cross-listed) Prerequisite: MANG 3401 or ENMG 6101 or consent of department. A study of organizational behavior across all levels of organizational life: the individual, interpersonal, group, organizational, and society. Problems to be discussed and dealt with include motivation, communications, leadership, group dynamics, power, organizational structures and design, and various types of environmental constraints including competition, markets, and governmental regulations. Lecture, discussion, and group problem-solving project reports are included in instructional methodology.

MANG 6420      Organization Theory and Design      3 cr.

Prerequisite: MANG 4400 or equivalent or consent of department. A student may not receive credit for both MANG 4420 and MANG 6420. Readings, lecture-discussion, and cases are used to explore and evaluate options in designing organizations to maximize organizational effectiveness. Design variables such as formal structure, communication networks, information systems, control and reward systems, and decision-making modes are related to effectiveness criteria in the context of internal and external constraints.

MANG 6425      Small Group Management      2 cr.

Prerequisite: Admission to the EMBA Program. This course consists of three primary segments. In the first segment, students will be involved in a series of self-assessment exercises designed to highlight individual differences. In the second segment, students will work in group settings to develop their ability to work effectively in groups and to highlight the strengths of group work. In the final segment, students will be assigned/selected into a work group which will continue through the EMBA program.

MANG 6446      International Management      3 cr.

Prerequisites: MANG 3401 or MANG 4400. May not receive graduate credit for both Management 4446 and

MANG 6446. Deals with complex managerial problems of the multinational enterprise. The principal areas of study will be: 1) nature and scope of international business; 2) international business and the nation-state; 3) assessing and forecasting the international business environment; and 4) managing the multinational enterprise.

MANG 6467      Managing Human Resources      3 cr.

A study of the theories and techniques of modern human resource management with respect to attracting, motivating, and retaining a competent workforce. Emphasis of this course is on the management of a human resource function. A student may not receive credit for both BA 6011 and MANG 6467.

MANG 6468      Managing HR Strategy and Compensation Systems      3 cr.

A student may not receive credit for both MANG 4468 and 6468. A study of the management of compensation and benefit programs in medium to large organizations.

MANG 6469      Managing Staffing and Development in HRM      3 cr.

A student may not receive credit for both MANG 4469 and MANG 6469. A study of the management of programs designed to acquire and develop a competent workforce.

MANG 6470      Employment Law for Managers      3 cr.

Students may not receive credit for both MANG 4470 and 6470. This course is a study and analysis of the management of the legal environment of human resource management with emphasis on the impact of equal opportunity legislation on recruitment, selection, testing, evaluation, discipline, and termination of employees.

MANG 6471      Total Quality Management      3 cr.

Prerequisites: QMBE 6780 or BA 6780 or both ENMG 6101 and 6112 or consent of the department. May not receive graduate credit for both MANG 4471 and 6471. The essential concepts, practices, and methods of total quality management. Guidelines for managers to provide competent and visible leadership to insure effective quality assurance. The use of statistical quality in service and manufacturing organizations. Cases on the management of TQM programs.

MANG 6472      Project Management      3 cr.

(ENCE 6390, ENMG 6120, and MANG 6472 are cross-listed) Prerequisite: consent of department. Encompasses project organization structure, project planning and control. Discussions will include performance analysis based on earned value. Emphasis will be given to project management information systems. Human behavior in the project setting will be discussed.

MANG 6476      Operations Management      3 cr.

Prerequisites: QMBE 6780 or ENMG 6112 or consent of department. A study of techniques used in the analysis, design, and control of organizational operations. Emphasis on total quality management of manufacturing and service sector operations. Forecasting, inventory control, layout and location, queuing, automation and JIT are discussed as well as cases and computer programs for operations management.

MANG 6480      Seminar in Business Policies      3 cr.

(Open to master's candidates in their final semester only.) A study of business policies integrating the functions of all fields of business administration. The course is designed to give the student the top management viewpoint of the operation of the business enterprise. Strategy development and implementation are emphasized

MANG 6491      Independent Study in Management      3 cr.

Prerequisites: consent of department. Readings, weekly or biweekly reports, conferences, and a research paper under the direction of a graduate faculty member is required.

MANG 6494      Internship in Management      3 cr.

Prerequisite: 15 hours of MBA courses with at least a 3.0 GPA and consent of the department. The student will work a minimum of 150 hours during the semester at the site of a participating organization that directs the intern in a specific Management project. Students must in addition engage in extensive outside research in the subject area related to their internship and submit a substantial report on this research reflecting a graduate level of learning. Enrollment is limited. May not be repeated for credit.

MANG 6497      Special Topics in Management      1 min. cr. - 4 max. cr.

An intensive study of selected special topics in Management. Topics will vary based on contemporary needs as dictated by the discipline as well as the interests of the students and the instructors. Section number will

correspond with credit to be earned. May be repeated up to six times as long as the course content for each is different.

**MANG 6700 Strategic Management Information Systems 3 cr.**

Prerequisites: MANG 3778 or MANG 4400 or both ENMG 6101 and ENMG 6112 or consent from department. Information technology (IT) is more than just computers. It must be conceived of broadly to encompass information as well as a spectrum of technologies that process the information. IT helps to reduce risks and create opportunities. With this understanding, a contingency framework is introduced for allocating IT resources within the firm. A focus is given on whether a firm's IT assets are correctly aligned with its strategy, and whether the firm's organization structure, management reporting relationships, risk of project portfolio, and project management efforts are congruent with the organization's goals. These evaluations are made across a variety of stable and emerging technology solutions, including outsourcing, knowledge management, expert systems, e-business, and supply-chain management systems.

**MANG 6710 Management of Technology and Innovation 3 cr.**

May not receive credit for both MANG 6710 and MANG 4710. Basic concepts involved with the management of technology in an organizational setting. Discussion of the relationship between innovation and strategic planning, fostering creativity and innovation in an organization, and issues in implementing innovative ideas within organizational structures. Text, readings, case studies, and videos are used as presentational media. Term project required.

**MANG 6730 Business Information System Analysis and Design 3 cr.**

Students may not receive credit for both Management 4730 and Management 6730. Theories and techniques for analysis of business information requirements and design, development, and implementation of information systems. Case studies will be discussed in class and students will be required to work on a project dealing with the analysis and design of a business information system.

**MANG 6740 Network Security Management 3 cr.**

A student may not receive graduate credit for both Management 4740 and 6740. Introduces network and security management topics. The business value of network resources is discussed, the threats to these resources are identified, and approaches to solving network security problems are studied. Hands-on experience is provided through student projects and lab sessions. Business cases in network management and discussed in class with emphasis on security issues.

**MANG 6750 Knowledge Management 3 cr.**

Students can only get credit for one of the following: Management 4750, Management 44ss, or Management 6750. This course is a thorough introduction to the subject of [nowledge management (KM) from a business management viewpoint. It includes the theoretical framework for knowledge and the methods and technologies that support the creation and management of knowledge in large and small organizations. This course covers knowledge theory, databases and data warehousing, knowledge management systems, data mining, and expert systems. students will also complete a group project, which is a proposal for a knowledge management solution.

**MANG 6760 Management of Electronic Commerce 3 cr.**

Background and understanding e-business and e-commerce technologies and models. Business solutions for managing customer relation, on-line communities, supply chain management, trust, and knowledge management. The course uses case studies, hands-on-research and project work, to provide an understanding of e-business technologies and their integration into existing business, focusing on managing information resources in an e-business framework.



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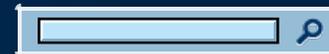
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## Marketing

MKT 3501	Principles of Marketing	3 cr.
Offered each semester. Prerequisite: ECON 1203. A course designed to introduce the role of marketing in society. Particular emphasis is placed on those market-related variables which are subject to control by the firm. The viewpoint taken is that of the marketing manager whose role it is to make decisions relating to marketing strategy.		
MKT 3505	Consumer Behavior	3 cr.
Offered each semester. Prerequisites: MKT 3501 and three hours of social sciences coursework. An interdisciplinary approach to the study of the decision-making process as it applies to the purchase of consumer goods. The viewpoint of both consumer and of the marketing manager are considered so that the student may apply the principles of the courses to personal as well as professional life. A wide variety of examples is used to establish the practical value of the subjects discussed.		
MKT 3510	Introduction to Marketing Research	3 cr.
Prerequisites: MKT 3501 BA 2780 and QMBE 2786. The scientific method is applied to the solution of marketing problems for the development of sound marketing strategies. Basic methodologies and applications are stressed. Analytical techniques and analysis beyond those in QMBE2786 are introduced.		
MKT 3515	Personal Selling	3 cr.
Prerequisite: MKT 3501. Training in the current theories and practice of selling to organizational buyers. Role playing, videotaped presentations, and other techniques are employed to enhance interpersonal communication skills.		
MKT 3520	Direct Response Marketing	3 cr.
Prerequisite: MKT 3501. The theory and practice of direct response marketing as an aspect of the total marketing system for both small and large businesses. Emphasis is given to direct mail, print and broadcast advertising, telephone promotion, and interactive media. Development of student's analytical techniques needed for successful application in profit and nonprofit organizations, both public and private.		
MKT 3526	The Legal Environment of Marketing	3 cr.
Prerequisites: BA 3010 and MKT 3501. A study of the federal anti-trust laws and other federal and state laws regulating and affecting the sales, marketing, and distribution processes. Subject areas include price fixing laws, exclusive dealings and tie-in arrangements, patent laws, horizontal and vertical restraints of trade, illegal boycotts and discriminatory discounts, illegal advertising, product liability, and consumer protection laws.		
MKT 3530	Sales Management	3 cr.
Prerequisite: MKT 3501. The theory and practice of recruiting training motivating and compensating the professional sales force with emphasis on the role of the salesman in buyer-seller relationships.		
MKT 3540	Promotion Management	3 cr.

Prerequisite: MKT 3501. An overview of promotion management providing a framework for integrating the promotion functions of advertising, personal selling, sales promotion, and publicity.

MKT 3550 Sport and Event Marketing 3 cr.

Prerequisite: MKT 3501. Sport and Event marketing will examine applications of marketing concepts, tools, and models to the marketing of sporting, corporate, cultural, historical and charitable activities and events. During the course of the semester, the students will examine the issues and strategies involved in the performance, production, and promotion of events.

MKT 3552 Retailing 3 cr.

Prerequisite: MKT 3501. Store organization, operation, and management; and problems and practices of retailers in buying, selling, control, and promotion.

MKT 3570 Business-to-Business Marketing 3 cr.

Prerequisite: MKT 3501. The course emphasizes the special nature of marketing to organizations as opposed to individual consumers. These organizations include commercial enterprises, institutions, and government units. Emphasis is placed on providing frameworks which can be used by business marketers to help develop more effective marketing strategies.

MKT 3580 Advertising 3 cr.

Prerequisite: MKT 3501. Analysis of principal means of promotion. Includes preparation of an advertising campaign and appropriation determination. Brief treatment of personal selling and secondary promotional devices.

MKT 3590 Topic Seminar in Marketing 3 cr.

Prerequisite: MKT 3501. Topics of current interest in marketing. Topic changes from semester to semester. Course may be repeat; up to 3 times for a total of 9 credit hours as long as a different current topic is being explored for each repeat of the course.

MKT 3591 Independent Study in Marketing 3 cr.

Offered each semester. Prerequisite: MKT 3501 and approval of the directed individual study by the department chair and the supervising professor is required prior to registration. The students should refer to the College of Business Administration Policy on Directed Individual Study available in the Marketing Department. This course is arranged individually in order to provide latitude for specialized study and research under the direction of a faculty member. Progress reports, readings, conferences, and a research paper are required. May be repeated once for credit.

MKT 3595 Academic Year Abroad: Special Topics in Marketing 3 cr.

This course is only offered through UNO's Academic Year Abroad (AYA) in Innsbruck, Austria and can be repeated once for credit.

MKT 3599 Senior Honors Thesis 3 cr.

Offered each semester. Prerequisites: MKT 3510 consent of department consent of director of the Honors Program and grade point averages of at least 3.5 in marketing and at least 3.25 overall. Senior honors thesis research in marketing under the direction of a faculty member. Students may earn up to a total of six credits.

MKT 4400 Marketing Foundations for Managers 3 cr.

An approach to marketing management concepts and practice intended for managerial use. This course is intended to prepare students for graduate study in Business Administration. Emphasis will be placed on familiarizing pre-MBA students with the application of marketing management techniques in business decision-making as it concerns the development and strategic positioning of the firm and its offerings in a competitive environment. Not open to undergraduate students. This course may not be taken for graduate credit. Students may not receive credit for both MKT 3501 and MKT 4400.

MKT 4520 Technology and Marketing 3 cr.

Prerequisite: Marketing 3501 or MKT 4400. This course covers both the impact of new information technologies on traditional marketing and marketing in industries undergoing high levels of technological change. Subject areas such as e-commerce, database marketing, business-to-business marketing, and customer contact management are examined and illustrated in industry settings that emphasize innovation through the development of new technologies. These industries, but are not limited to, communications, information processing, education, entertainment, and health care. Graduate students may not receive credit for both MKT 5520 and MKT 6520.

MKT 4535	Services Marketing	3 cr.
Prerequisite: MKT 3501 or MKT 4400. Services marketing concepts are applied to a broad range of service industries (e.g., health care, financial, professional, hospitality, travel, tourism, sports, arts, entertainment, governmental, quasi-governmental, non-profit, channel, physical distribution, rental, leasing, education, research, telecommunications, personal, repair, and maintenance services). Services represent more than three-fourths of the U.S. Gross National Product and three-fourths of all jobs. Topics include uniqueness of services marketing, marketing strategy for services, services customers, the services marketing mix, services marketing research, and international services marketing. Graduate students may not receive credit for both MKT 5535 & MKT 6535.		
MKT 4536	Health Care Marketing	3 cr.
Prerequisites: MKT 3501 or MKT 4400 or consent of the department. Application of marketing principles and concepts to contemporary Health Care Industry issues. This course is specifically designed to introduce Health Care employees to marketing thought and processes and business students to the marketing issues relevant to contemporary management operations in a Health Care environment. Students in MBA program may not enroll in this course.		
MKT 4546	International Marketing Management	3 cr.
Prerequisites: MKT 3501 or MKT 4400. A study of the significant aspects of international business operations including the historical development of foreign trade policy and operative problems of international business operations, private and public organizations in foreign trade, and the legal dimensions of foreign trade. Graduate students will not receive credit for both MKT 5546 and 6546		
MKT 4570	Distribution Channels	3 cr.
Prerequisites: MKT 3501 or MKT 4400. Theory and practice of analysis and management of interfirm relationships within the marketing channel. Oriented toward strategic planning, the course examines the scope, environments, and dynamics of channel structure with a strategic planning orientation.		
MKT 4575	Logistics	3 cr.
Prerequisites: MANG 3402 and MKT 3501 or MKT 4400. A study of the flow of goods as it relates to the success of the firm. Topics include transportation and storage and their control, information flow, inventory, location theory, and scheduling. Graduate students may not receive credit for both MKT 5575 and MKT 6575.		
MKT 4580	Marketing Management	3 cr.
Prerequisite: 12 hours of marketing which must include MKT 3501, MKT 3505, and 3510. Focuses on the steps of marketing planning, which include planning, implementing, and controlling marketing programs. This includes product and brand development, channels of distribution, promotion, and pricing.		
MKT 4585	Marketing Internship	3 cr.
Prerequisite: MKT 3501 and consent of department. The student intern works for ten to twenty hours per week at the sight of a participating organization which directs the intern in a specific marketing project. Students desiring to take this course should apply early. Enrollment is limited by the internships available.		
MKT 4590	Marketing Strategy	3 cr.
Prerequisites: 15 hours of marketing which must include MKT 3501, 3505, 3510, and 4580. Designed to provide the student with a cohesive understanding of managerial decision making in marketing. Emphasizes conceptualizing marketing problems, conducting situation analyses, formulating creative alternatives, and thorough strategy implementation.		
MKT 5535	Services Marketing	3 cr.
Prerequisite: MKT 3501 or MKT 4400. Services marketing concepts are applied to a broad range of service industries (e.g., health care, financial, professional, hospitality, travel, tourism, sports, arts, entertainment, governmental, quasi-governmental, non-profit, channel, physical distribution, rental, leasing, education, research, telecommunications, personal, repair, and maintenance services). Services represent more than three-fourths of the U.S. Gross National Product and three-fourths of all jobs. Topics include uniqueness of services marketing, marketing strategy for services, services customers, the services marketing mix, services marketing research, and international services marketing. Graduate students may not receive credit for both MKT 5535 & MKT 6535.		
MKT 5536	Health Care Marketing	3 cr.
Prerequisites: MKT 3501 or MKT 4400 or consent of the department. Application of marketing principles and concepts to contemporary Health Care Industry issues. This course is specifically designed to introduce Health		

Care employees to marketing thought and processes and business students to the marketing issues relevant to contemporary management operations in a Health Care environment. Students in MBA program may not enroll in this course.

MKT 5546 International Marketing Management 3 cr.

Prerequisites: MKT 3501 or MKT 4400. A study of the significant aspects of international business operations including the historical development of foreign trade policy and operative problems of international business operations, private and public organizations in foreign trade, and the legal dimensions of foreign trade. Graduate students will not receive credit for both MKT 5546 and 6546

MKT 5570 Distribution Channels 3 cr.

Prerequisites: MKT 3501 or MKT 4400. Theory and practice of analysis and management of interfirm relationships within the marketing channel. Oriented toward strategic planning, the course examines the scope, environments, and dynamics of channel structure with a strategic planning orientation.

MKT 5575 Logistics 3 cr.

Prerequisites: MANG 3402 and MKT 3501 or MKT 4400. A study of the flow of goods as it relates to the success of the firm. Topics include transportation and storage and their control, information flow, inventory, location theory, and scheduling. Graduate students may not receive credit for both MKT 5575 and MKT 6575.

MKT 6503 Strategic Marketing Management 3 cr.

Prerequisite: MKT 3501 or MKT 4400 or ENMG 6101 or consent of the department. Students with an undergraduate marketing degree may replace MKT 6503 with an approved graduate marketing elective. Development of the ability to solve marketing problems using the case method. Emphasis is given to the use of data obtained from business firms.

MKT 6510 Advanced Analysis of Consumer Behavior 3 cr.

Prerequisite: MKT 6503. Theoretical, conceptual, and methodological issues in consumer behavior. Emphasis will be on current publications, breakthroughs, and research.

MKT 6535 Advanced Services Marketing Management 3 cr.

Prerequisite: MKT 6503. A strategy-oriented seminar dealing with problems of marketing-service businesses (e.g., hotels, restaurants, banks, medical offices, etc.). This course prepares students to properly manage the marketing effort for service businesses using case analyses, exercises, and projects which deal with critical aspects of service, design, and delivery. Graduate students may not receive credit for both MKT 4535G and MKT 6535.

MKT 6536 Strategic Marketing Decisions for Health Care Management 3 cr.

Prerequisite: MBA foundation or consent of department. An advanced seminar in Strategic Marketing methods in a diverse health care context. Includes assessment of market opportunities, development and implementation of marketing programs, promotion, market research, and marketing information systems. Special emphasis on marketing in a managed care environment.

MKT 6546 Advanced Seminar in International Marketing 3 cr.

Prerequisite: MKT 6503. An in-depth review of trends and developments in the global marketing environment. Topics covered include import-export, joint ventures as well as international marketing systems and multinational marketing strategies. Graduate students will not receive credit for both MKT 4546G and 6546.

MKT 6555 Marketing Research Methods 3 cr.

Prerequisite: QMBE 6780 or BA 6780 and MKT 6503. Advanced marketing research methods including experimentation, questionnaire construction, and sampling, used to investigate marketing problems, and design of strategies. Other applications include market position assessment, image studies, product design, advertising effectiveness, and pricing. Elementary and multivariate data analysis methodology will be applied.

MKT 6575 Logistics 3 cr.

Prerequisite: MKT 6503. Logistics is a value-added process that synchronizes demand and supply in an effort to provide competitive advantage. Emphasis is placed on the strategic importance of customer service/satisfaction within a supply chain management perspective. Specific topics include supply chain strategy, transportation, inventory analysis, warehousing, material handling, and international logistics. Graduate students may not receive credit for both MKT 4575G and MKT 6575.

**MKT 6590**      **Current Topics in Marketing**      **3 cr.**  
 Prerequisite: MKT 6503. An intensive study of selected current topics in marketing. Topics will vary based on contemporary needs as dictated by the discipline as well as the interests of the students and the instructor. Courses may be repeated up to 3 times as long as a different current topic is being explored for each repeat of the course.

**MKT 6591**      **Independent Study in Marketing**      **3 cr.**  
 Prerequisite: MKT 6503 and consent of department. Readings, weekly reports, conferences, and a research paper.

**MKT 6594**      **Internship in Marketing**      **3 cr.**  
 Prerequisite: 15 hours of MBA courses (which must include MKT 6503) with at least a 3.0 GPA and consent of the department. The student will work a minimum of 150 hours during the semester at the site of a participating organization that directs the intern in a specific Marketing project. Students must in addition engage in extensive outside research in the subject area related to their internship and submit a substantial report on this research reflecting a graduate level of learning. Enrollment is limited. May not be repeated for credit.

**MKT 6595**      **Special Topics in Marketing**      **1 min. cr. - 4 max. cr.**  
 Prerequisite: MKT 6503 or consent of the department. An intensive study of selected special topics in Marketing. Topics will vary based on contemporary needs as dictated by the discipline as well as the interests of the students and the instructor. Section number will correspond with credit to be earned. Courses may be repeated up to 3 times as long as a different special topic is being explored for each repeat of the course.



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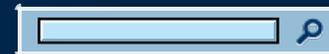
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## Mathematics

Admission to all courses at the 1000-level will be based on performance on the ACT or departmental placement exams.

MATH 1021      Problem Solving and Number Relations for Elementary Teachers      3 cr.

A problem solving approach to the number systems of arithmetic emphasizing the use of logic and sets as the language of mathematics. This course may be used for degree credit only in the College of Education and Human Development.

MATH 1023      Problem Solving and Geometry for Elementary Teachers      3 cr.

A problem solving and constructive approach to Euclidean Geometry and three dimensions. This course can be used for degree credit only in the College of Education and Human Development.

MATH 1031      A Survey of Mathematical Thought  
I      3 cr.

Non-technical survey of major branches of mathematics with examples of problems and methods in each. Not offered for degree credit for students enrolled in the College of Sciences or College of Engineering.

MATH 1032      A Survey of Mathematical Thought      3 cr.

Non-technical survey of major branches of mathematics with examples of problems and methods in each. Not offered for degree credit for students enrolled in the College of Sciences or College of Engineering.

MATH 1115      College Algebra      3 cr.

Real numbers and equations, functions, polynomial functions and graphs, exponential and logarithmic functions. A strong component of this course will be applications taken from different areas of concentration.

MATH 1116      College Trigonometry      3 cr.

Prerequisite: MATH 1115 with a grade of C or better. Introduction to trigonometric functions, graphs of trigonometric functions, trigonometric identities, applications of trigonometry, linear and nonlinear systems, binomial theorem. Designed for students who are not required to take calculus. A strong component of this course will be applications taken from different areas of concentration. Credit for both MATH 1116 and 1126 will not be allowed.

MATH 1125      Precalculus Algebra      3 cr.

Prerequisites: MATH 1115 with a grade of C or better. Fundamentals, functions, polynomials and rational functions, exponential and logarithmic functions.

MATH 1126      Precalculus Trigonometry      3 cr.

Prerequisites: MATH 1125 with a grade of C or better. Trigonometric functions of real numbers, trigonometric functions of angles, analytic trigonometry, systems of equations and inequalities, the binomial theorem. Credit for



Baye's Theorem, discrete distributions including Binomial and Poisson distributions, continuous distributions including Uniform, Normal and Exponential distributions, statistical inference including sampling, point and interval estimation and hypothesis testing. Credit will not be allowed in both MATH 2314 and MATH 2785.

MATH 2998      Independent Study: Readings      1 min. cr. - 3 max. cr.

Prerequisite: consent of department. The course consists of directed readings designed to meet the needs and interests of the individual student; regular conferences between the student and the instructor are required. May be taken multiple times for a maximum of six (6) credit hours.

MATH 3099      Senior Honor Thesis      1 min. cr. - 6 max. cr.

Prerequisite: consent of department and the director of the Honors Program. Honors thesis research in mathematics under the direction of a faculty member. May be taken multiple times until thesis is accepted, for a maximum of six (6) credit hours.

MATH 3221      Methods in Differential Equations      3 cr.

Prerequisites: MATH 2221 and Math 2134 or MATH 2115. The major emphasis of this course will be on techniques and examples. Power series solutions, linear systems, matrix methods, eigenvalues, eigenvectors, partial differential equations, Fourier series, heat equation, wave equation, Laplace's equation.

MATH 3400      Geometry      3 cr.

Prerequisite: MATH 1115 or higher or six hours of mathematics courses numbered at least 1000. Absolute geometry, introduction to non-Euclidean geometries, Euclidean geometries, metric approach.

MATH 3511      Introduction to Linear Algebra      3 cr.

Prerequisite: MATH 2134 or PHYS 1061 or MATH 2109 or 2112 or consent of department. Matrices, systems of linear equations, vector spaces, linear transformations, determinants, inner products and norms, eigenvalues and eigenvectors, diagonalization. Offered each semester.

MATH 3512      Introduction to Abstract Algebra      3 cr.

Prerequisite: MATH 2511; MATH 3721 is recommended. An introduction to modern algebraic structures: relations, mappings, semigroups, groups, rings and fields.

MATH 3721      Introduction to Discrete Structures      3 cr.

Prerequisite: MATH 1115 or higher, or six hours of mathematics courses numbered at least 1000. An introduction to the discrete structures that serve as a foundation for mathematics and computer science: set theory and mathematical logic; binary relations; counting and algorithm analysis; induction and strings.

MATH 3900      Undergraduate Oral Examination      0 cr.

Prerequisite: Junior standing required. Required for graduation of all Mathematics majors; independent study required. This is a Pass/Fail course. Students will demonstrate that they have acquired mastery over the material in undergraduate mathematics by creating an oral presentation, writing an essay and taking a standardized test on mathematics knowledge.

MATH 4101      Advanced Calculus      3 cr.

Prerequisite: MATH 2109 or 2112 or 2124 with a grade of C or better. These courses emphasize a balance between proofs and techniques in intermediate analysis involving one and several variables. Limits, continuity, differentiation, integration and convergence. Series of functions, functional dependence, Jacobian, vector analysis or other techniques of use in applications.

MATH 4102      Advanced Calculus      3 cr.

Prerequisite: MATH 2134 or 2115 and 4101 with a grade of C or better. These courses emphasize a balance between proofs and techniques in intermediate analysis involving one and several variables. Limits, continuity, differentiation, integration and convergence. Series of functions, functional dependence, Jacobian, vector analysis or other techniques of use in applications.

MATH 4221      Intermediate Ordinary Differential Equations      3 cr.

Prerequisite: MATH 2221 and 3511 or consent of department. Topics to be selected from the following:

introduction to qualitative theory, phase plane analysis of autonomous systems, classification of equilibria, stability theory, Liapunov methods, limit cycles, Poincaré Bendixson theorem, introduction to bifurcation theory and chaotic oscillations, Frobenius method for series solutions, special functions, Sturm comparison and separation theorems.

MATH 4224 Partial Differential Equations I 3 cr.

Prerequisite: MATH 2134 or 2115, and 2221 or consent of department. Basic techniques for solving linear partial differential equations, separation of variables, eigenfunction expansions, integral transforms, Sturm-Liouville boundary value problems, initial value problems and boundary value problems for hyperbolic, parabolic, and elliptic equations, fundamental solutions, maximum principle, classical and modern applications.

MATH 4230 Finite Element Analysis 3 cr.

Prerequisites: MATH 2134 or 2115 or 2221. Variational principle, weighted residual methods, finite element analysis of one and two dimensional steady state and transient boundary value problems involving partial differential equations, software development and implementations.

MATH 4251 Numerical Analysis 3 cr.

Prerequisite: MATH 2134 or 2115 or 2221, or consent of department. Numerical solution of systems of linear and nonlinear equations; interpolation, approximation, and minimization of functions; numerical integration.

MATH 4270 Introduction to Optimization 3 cr.

Prerequisites: MATH 2134 or 2115 and 3511 or consent of department. Methods for optimization of physical, economic, and business systems. Convex sets; methods for solving linear programming problems; review of classical methods of optimization; network flow analysis.

MATH 4280 Mathematical Modeling for Continuous Systems 3 cr.

Prerequisite: MATH 2134 or 2115, and 2221, or consent of department. General principles in mathematical modeling, derivation and analysis of specific models using ordinary and partial differential equations; examples drawn from the applied sciences may include traffic flow, biological systems, mechanical systems, discussion of stability and dependence on parameters.

MATH 4301 Analysis of Variance and Experimental Design 3 cr.

Prerequisite: MATH 2314 or MATH 2785 or PSYC 1310 or SOC 2707. An introduction to the SAS statistical computer package. Basic analysis of variance with fixed and random effects models, multifactor analysis of variance, analysis of covariance. Experimental designs including completely randomized designs, randomized block designs, nested designs, and Latin squares. Only one of MATH 5301 or 6301 may be counted toward a master's degree in Mathematics.

MATH 4304 Introduction to Regression Analysis 3 cr.

Prerequisite: MATH 2314 or MATH 2785 or PSYC 1310 or SOC 2707. Linear regression, inferences in regression analysis, aptness of model and remedial measures, matrices, multiple and polynomial regression, indicator variables, multi-collinearity, selection of independent variables, nonlinear regression. SAS will be used for data analysis. Only one of MATH 5304 or 6304 may be counted toward a master's degree in Mathematics.

MATH 4311 Introduction to Mathematical Statistics 3 cr.

Prerequisite: MATH 2124 or 2109 or 2112. Axiomatic probability, discrete and continuous distributions, expectation, estimation, central limit theorem, confidence intervals and tests of hypotheses, regression, Bayesian statistics, other topics. Only one of MATH 5311 or 6311 may be counted toward a master's degree in Mathematics.

MATH 4312 Introduction to Mathematical Statistics 3 cr.

Prerequisite: MATH 4311. Axiomatic probability, discrete and continuous distributions, expectation, estimation, central limit theorem, confidence intervals and tests of hypotheses, regression, Bayesian statistics, other topics. Only one of MATH 5312 or 6312 may be counted toward a master's degree in Mathematics.

MATH 4411 Introduction to Complex Analysis 3 cr.

Prerequisite: MATH 2134 or 2115 or consent of department. Complex plane, analytic functions, Cauchy-Riemann equations, mappings by elementary functions, complex integration, Cauchy's theorem, Cauchy integral formula and applications, Taylor series, Laurent series, isolated singularities, residue theorem and applications.

MATH 4511	Linear Algebra	3 cr.
Prerequisite: MATH 3511 or 3512. Vector spaces (including infinite dimensional ones), linear maps, determinants, polynomials, eigenvalues and eigenvectors, inner product spaces, operators on inner product spaces, and the spectral theorem. There is a focus on both rigor and proof as well as applications.		
MATH 4512	Abstract Algebra	3 cr.
Prerequisite: MATH 3512. Ideals, Euclidean and principal ideal domains, finite fields, Sylow theorems, and solvable groups.		
MATH 4530	Introduction to Cryptography	3 cr.
(MATH 4530 & CSCI 4130 are cross-listed) Prerequisites: MATH 3721. Elementary ciphers, Data Encryption Standard, Advanced Encryption Standard (Rijndael), Rivest-Adleman-Shamir (RSA) Encryption, and other topics in modern cryptography (subject to change as progress in field changes). This course is aimed at both CSCI and MATH majors, with both programming assignments and proofs as problem options.		
MATH 4611	Topology	3 cr.
Prerequisite: MATH 4101 or consent of department. Topological spaces, continuous maps and homeomorphisms, product spaces, connectedness, separation axioms, compactness, and metric spaces.		
MATH 4721	Combinatorics	3 cr.
Prerequisite: MATH 3511 or 3721 or consent of department. Permutations, combinations, and partitions; inclusion-exclusion principle; generating functions and recurrence relations; matchings; combinatorial designs.		
MATH 4801	Actuarial Probability I	3 cr.
Prerequisites: MATH 2314 or MATH 2785, and MATH 2114 or MATH 2108 or MATH 2111. General probability, random variables and probability distributions, moments of a random variable, applications of each of the above topics to actuarial problems, exam P practice. This is the first part of the material covered on Exam P (Probability) and Exam 1 administered by the Society of Actuaries and the Casualty Actuarial Society, respectively.		
MATH 4802	Actuarial Probability II	3 cr.
Prerequisites: MATH 2314 or MATH 2785 and MATH 2124 or MATH 2109 or MATH 2112. Multivariate distributions, risk and insurance, moments of several random variables, some discrete random variables and applications, some continuous random variables, normal approximations, and applications of each of the above topics to actuarial problems, exam P practice. This is the second part of the material covered on Exam P (Probability) and Exam 1 administered by the Society of Actuaries and the Casualty Actuarial Society, respectively.		
MATH 4803	Financial Math I	3 cr.
Prerequisites: MATH 2314 (or MATH 2785), and MATH 2114 or MATH 2107. The Measurement of Interest, problems in interest, elementary annuities, yield rates, amortization schedules and sinking funds, bond and other securities, practical applications, more advanced financial analysis, a stochastic approach to interest. This is the material covered on Exam FM (Financial Mathematics) and Exam 2 administered by the Society of Actuaries and the Casualty Actuarial Society, respectively. This course requires the use of a financial calculator.		
MATH 4804	Financial Mathematics II	3 cr.
Prerequisites: MATH 2314 or MATH 2785, and MATH 2124 or MATH 2109 or MATH 2112. Forward price, no-arbitrage, pricing and risk-neutrality, options and their properties, the binomial model, stochastic models, options Greeks, exotic options, interest rate models. This is the material covered on Exam MFE administered by the Society of Actuaries.		
MATH 4990	Special Topics	3 cr.
Prerequisite: consent of department. May be taken two (2) times for a maximum of six (6) credit hours.		
MATH 4991	Special Topics	3 cr.
Prerequisite: consent of department. May be taken two (2) times for a maximum of six (6) credit hours.		
MATH 4992	Special Topics	3 cr.
Prerequisite: consent of department. May be taken two (2) times for a maximum of six (6) credit hours.		
MATH 4998	Selected Readings in Mathematics	1 min. cr. - 3 max. cr.

Prerequisite: consent of department. The course consists of directed readings designed to meet the needs and interests of the individual student; regular conferences between the student and the instructor are required. May be taken multiple times for a maximum of six (6) credit hours.

MATH 5101      Advanced Calculus      3 cr.

Prerequisite: MATH 2109 or 2112 or 2124 with a grade of C or better. These courses emphasize a balance between proofs and techniques in intermediate analysis involving one and several variables. Limits, continuity, differentiation, integration and convergence. Series of functions, functional dependence, Jacobian, vector analysis or other techniques of use in applications.

MATH 5102      Advanced Calculus      3 cr.

Prerequisite: MATH 2134 or 2115 and 4101 with a grade of C or better. These courses emphasize a balance between proofs and techniques in intermediate analysis involving one and several variables. Limits, continuity, differentiation, integration and convergence. Series of functions, functional dependence, Jacobian, vector analysis or other techniques of use in applications.

MATH 5221      Intermediate Ordinary Differential Equations      3 cr.

Prerequisite: MATH 2221 and 3511 or consent of department. Topics to be selected from the following: introduction to qualitative theory, phase plane analysis of autonomous systems, classification of equilibria, stability theory, Liapunov methods, limit cycles, Poincar Bendixson theorem, introduction to bifurcation theory and chaotic oscillations, Froebenius method for series solutions, special functions, Sturm comparison and separation theorems.

MATH 5224      Partial Differential Equations I      3 cr.

Prerequisite: MATH 2134 or 2115, and 2221 or consent of department. Basic techniques for solving linear partial differential equations, separation of variables, eigenfunction expansions, integral transforms, Sturm-Liouville boundary value problems, initial value problems and boundary value problems for hyperbolic, parabolic, and elliptic equations, fundamental solutions, maximum principle, classical and modern applications.

MATH 5230      Finite Element Analysis      3 cr.

Prerequisites: MATH 2134 or 2115 or 2221. Variational principle, weighted residual methods, finite element analysis of one and two dimensional steady state and transient boundary value problems involving partial differential equations, software development and implementations.

MATH 5251      Numerical Analysis      3 cr.

Prerequisite: MATH 2134 or 2115 or 2221, or consent of department. Numerical solution of systems of linear and nonlinear equations; interpolation, approximation, and minimization of functions; numerical integration.

MATH 5270      Introduction to Optimization      3 cr.

Prerequisites: MATH 2134 or 2115 and 3511 or consent of department. Methods for optimization of physical, economic, and business systems. Convex sets; methods for solving linear programming problems; review of classical methods of optimization; network flow analysis.

MATH 5280      Mathematical Modeling for Continuous Systems      3 cr.

Prerequisite: MATH 2134 or 2115, and 2221, or consent of department. General principles in mathematical modeling, derivation and analysis of specific models using ordinary and partial differential equations; examples drawn from the applied sciences may include traffic flow, biological systems, mechanical systems, discussion of stability and dependence on parameters.

MATH 5301      Analysis of Variance and Experimental Design      3 cr.

Prerequisite: MATH 2314 or MATH 2785 or PSYC 1310 or SOC 2707. An introduction to the SAS statistical computer package. Basic analysis of variance with fixed and random effects models, multifactor analysis of variance, analysis of covariance. Experimental designs including completely randomized designs, randomized block designs, nested designs, and Latin squares. Only one of MATH 5301 or 6301 may be counted toward a master's degree in Mathematics.

MATH 5304      Introduction to Regression Analysis      3 cr.

Prerequisite: MATH 2314 or MATH 2785 or PSYC 1310 or SOC 2707. Linear regression, inferences in regression analysis, aptness of model and remedial measures, matrices, multiple and polynomial regression, indicator variables, multi-collinearity, selection of independent variables, nonlinear regression. SAS will be used for data

analysis. Only one of MATH 5304 or 6304 may be counted toward a master's degree in Mathematics.

MATH 5311 Introduction to Mathematical Statistics 3 cr.

Prerequisite: MATH 2124 or 2109 or 2112. Axiomatic probability, discrete and continuous distributions, expectation, estimation, central limit theorem, confidence intervals and tests of hypotheses, regression, Bayesian statistics, other topics. Only one of MATH 5311 or 6311 may be counted toward a master's degree in Mathematics.

MATH 5312 Introduction to Mathematical Statistics 3 cr.

Prerequisite: MATH 4311. Axiomatic probability, discrete and continuous distributions, expectation, estimation, central limit theorem, confidence intervals and tests of hypotheses, regression, Bayesian statistics, other topics. Only one of MATH 5312 or 6312 may be counted toward a master's degree in Mathematics.

MATH 5411 Introduction to Complex Analysis 3 cr.

Prerequisite: MATH 2134 or 2115 or consent of department. Complex plane, analytic functions, Cauchy-Riemann equations, mappings by elementary functions, complex integration, Cauchy's theorem, Cauchy integral formula and applications, Taylor series, Laurent series, isolated singularities, residue theorem and applications.

MATH 5511 Linear Algebra 3 cr.

Prerequisite: MATH 3511 or 3512. Vector spaces (including infinite dimensional ones), linear maps, determinants, polynomials, eigenvalues and eigenvectors, inner product spaces, operators on inner product spaces, and the spectral theorem. There is a focus on both rigor and proof as well as applications.

MATH 5512 Abstract Algebra 3 cr.

Prerequisite: MATH 3512. Ideals, Euclidean and principal ideal domains, finite fields, Sylow theorems, and solvable groups.

MATH 5530 Introduction to Cryptography 3 cr.

(MATH 4530 & CSCI 4130 are cross-listed) Prerequisites: MATH 3721. Elementary ciphers, Data Encryption Standard, Advanced Encryption Standard (Rijndael), Rivest-Adleman-Shamir (RSA) Encryption, and other topics in modern cryptography (subject to change as progress in field changes). This course is aimed at both CSCI and MATH majors, with both programming assignments and proofs as problem options.

MATH 5611 Topology 3 cr.

Prerequisite: MATH 4101 or consent of department. Topological spaces, continuous maps and homeomorphisms, product spaces, connectedness, separation axioms, compactness, and metric spaces.

MATH 5801 Actuarial Probability I 3 cr.

Prerequisites: MATH 2314 or MATH 2785, and MATH 2114 or MATH 2108 or MATH 2111. General probability, random variables and probability distributions, moments of a random variable, applications of each of the above topics to actuarial problems, exam P practice. This is the first part of the material covered on Exam P (Probability) and Exam 1 administered by the Society of Actuaries and the Casualty Actuarial Society, respectively.

MATH 5802 Actuarial Probability II 3 cr.

Prerequisites: MATH 2314 or MATH 2785 and MATH 2124 or MATH 2109 or MATH 2112. Multivariate distributions, risk and insurance, moments of several random variables, some discrete random variables and applications, some continuous random variables, normal approximations, and applications of each of the above topics to actuarial problems, exam P practice. This is the second part of the material covered on Exam P (Probability) and Exam 1 administered by the Society of Actuaries and the Casualty Actuarial Society, respectively.

MATH 5803 Financial Math I 3 cr.

Prerequisites: MATH 2314 (or MATH 2785), and MATH 2114 or MATH 2107. The Measurement of Interest, problems in interest, elementary annuities, yield rates, amortization schedules and sinking funds, bond and other securities, practical applications, more advanced financial analysis, a stochastic approach to interest. This is the material covered on Exam FM (Financial Mathematics) and Exam 2 administered by the Society of Actuaries and the Casualty Actuarial Society, respectively. This course requires the use of a financial calculator.

MATH 5804 Financial Mathematics II 3 cr.

Prerequisites: MATH 2314 or MATH 2785, and MATH 2124 or MATH 2109 or MATH 2112. Forward price, no-

arbitrage, pricing and risk-neutrality, options and their properties, the binomial model, stochastic models, options Greeks, exotic options, interest rate models. This is the material covered on Exam MFE administered by the Society of Actuaries.

MATH 5990 Special Topics 3 cr.

Prerequisite: consent of department. May be taken two (2) times for a maximum of six (6) credit hours.

MATH 5991 Special Topics 3 cr.

Prerequisite: consent of department. May be taken two (2) times for a maximum of six (6) credit hours.

MATH 5992 Special Topics 3 cr.

Prerequisite: consent of department. May be taken two (2) times for a maximum of six (6) credit hours.

MATH 5998 Selected Readings in Mathematics 1 min. cr. - 3 max. cr.

Prerequisite: consent of department. The course consists of directed readings designed to meet the needs and interests of the individual student; regular conferences between the student and the instructor are required. May be taken multiple times for a maximum of six (6) credit hours.

MATH 6020 Geometry 3 cr.

Prerequisite: MATH 4020. Space figures: similarity and trigonometry, area and volume measurement, elements of spherical geometry, plane coordinate geometry. This course may be used for degree credit only in the elementary education curriculum.

MATH 6201 Introduction to Applied Mathematics 3 cr.

Prerequisites: Credit for or concurrent enrollment in MATH 4101. System of linear ordinary differential equations, fundamental matrices, nonlinear systems of ODE's, stability, limit cycles, separation of variables, heat equation, wave equation, Laplace's equation, Sturm-Liouville boundary value problems, Green's functions, integral transforms, conformal mapping, complex integration.

MATH 6202 Introduction to Applied Mathematics 3 cr.

Prerequisites: Credit or concurrent enrollment in MATH 4101. Dynamical systems, elementary bifurcations, chaos, nonlinear POE, characteristics, shocks, calculus of variations, Euler-Lagrange equation, normed linear spaces, linear operators, convex analysis, optimization.

MATH 6211 Applied Analysis 3 cr.

Prerequisites: MATH 4221 or Math 6201 or Math 6202. Ordinary differential equations in the real and complex domains, existence and uniqueness theorems, linear systems with constant and periodic coefficients. Linear differential equations or order  $n$ , self-adjoint eigenvalue problems, nonlinear equations, and stability theory.

MATH 6221 Advanced Differential Equations 3 cr.

Prerequisites: MATH 4101 or 4221. Ordinary differential equations in the real and complex domains, existence and uniqueness theorems, linear systems with constant and periodic coefficients. Linear differential equations or order  $n$ , self-adjoint eigenvalue problems, nonlinear equations, and stability theory.

MATH 6224 Partial Differential Equations II 3 cr.

Prerequisite: Math 4224 or Math 6201 or Math 6202. Topics in modern linear and nonlinear partial differential equations, distributions and weak solutions, method of characteristics, shock waves, Green functions, fixed point theorems, reaction diffusion equations.

MATH 6230 Advanced Finite Element Analysis 3 cr.

Prerequisites: MATH 3221 and Math 4101, or Math 4224, or Math 4230. Some knowledge of computer programming is required. Galerkin method, linear triangular elements, bilinear rectangular elements, axisymmetric elements, isoparametric elements, heat transfer by conduction and convection, torsion of noncircular sections, ground water with sources and sinks, biharmonic equation, vibration of membrane, iterative methods, software maintenance and development.

MATH 6242 Functional Analysis 3 cr.

Prerequisite: MATH 4101. Topics will be selected from the following: metric spaces, normed spaces, Banach spaces, functionals, dual spaces and weak topology, inner product spaces, Hilbert spaces, compact operators, spectral analysis, fixed point theorems, implicit function theorem, Fredholm theory.

MATH 6270	Advanced Optimization	3 cr.
Prerequisite: MATH 4101 or consent of department; Mathematics 4270 is recommended. Theory and application of advanced computational methods for extremizing linear and nonlinear functions of many variables including constrained and unconstrained problems. Particular topics include a review of the simplex method an introduction to interior point methods for linear programming problems, descent methods, Newton-like methods, conjugate direction methods, and quadratic and nonlinear programming.		
MATH 6290	Topics in Numerical Analysis	3 cr.
Prerequisite: consent of department.		
MATH 6300	Statistical Programming with SAS	3 cr.
Prerequisites: Previous experience using the SAS statistical package or consent of department. Proc IML, SAS macros and applications, Monte Carlo methods, resampling methods including bootstrap and jackknife, selected SAS procedures, statistical report writing with SAS.		
MATH 6301	Applied Statistics	3 cr.
Prerequisite: Consent of department. Data analysis, analysis of variance, regression analysis, nonparametric methods, use of computer packages. Only one of MATH 4301G or 6301 may be counted toward a master's degree in mathematics.		
MATH 6303	Multivariate Statistical Analysis	3 cr.
Prerequisite: MATH 4311 or 6311 or consent of department. Multivariate normal distribution, test of hypothesis on means, multivariate analysis of variance, canonical correlation.		
MATH 6304	Regression Analysis	3 cr.
Prerequisite: MATH 4301 or 6301 or consent of department. Linear regression, regression diagnostics, multiple regression, nonlinear regression. Only one of MATH 4304G or 6304 may be counted toward a master's degree in Mathematics.		
MATH 6311	Mathematical Statistics	3 cr.
Prerequisites: MATH 2109 or 2112 or consent of department. Theory of probability distributions, random variables and functions of random variables, multivariate and conditional distributions, order statistics, sampling distributions, theory of estimation and hypothesis testing. Only one of MATH 4311G or 6311 may be counted toward a master's degree in mathematics.		
MATH 6312	Mathematical Statistics	3 cr.
Prerequisites: MATH 6311 or consent of department. Theory of probability distributions, random variables and functions of random variables, multivariate and conditional distributions, order statistics, sampling distributions, theory of estimation and hypothesis testing. Only one of MATH 4312G or 6312 may be counted toward a master's degree in mathematics.		
MATH 6321	Sampling Theory	3 cr.
Prerequisite: MATH 4311 or 6311 or consent of department. Simple random sampling with and without replacement, sampling with varying probabilities, stratified sampling, cluster sampling, subsampling, systematic sampling, two-stage sampling, and sequential sampling.		
MATH 6331	Categorical Data Analysis	3 cr.
Prerequisite: MATH 4301 or 4311 or 6301 or 6311 or consent of department. Analysis of contingency tables, exact small sample tests, large sample inference, logistic regression, logit, probit, extreme value, loglinear and other generalized linear models, model building and applications.		
MATH 6341	Linear Statistical Models	3 cr.
Prerequisite: MATH 4311 or 6311 or consent of department. Multivariate normal distribution, matrix operations, distributions of quadratic forms, general linear hypotheses, standard models, computing techniques.		
MATH 6342	Design of Experiments	3 cr.
Prerequisite: MATH 6341 or consent of department. Matrix methods including calculus, principles of experimental design, techniques of analysis.		
MATH 6351	Time Series Analysis	3 cr.

Prerequisite: MATH 4311 or 6311 or consent of department. Autocorrelation, spectral analysis and filtering, autoregressive (AR) models, moving average (MA) models, ARMA models, ARIMA models, model identification, forecasting, and estimation of parameters.

MATH 6362 Reliability Theory 3 cr.

Prerequisite: MATH 4311 or 6301 or 6311 or consent of department. Reliability of coherent systems, distributions in reliability, classes of life distributions, maintenance and replacement policies, availabilities, competing risks, reliability hypothesis testing, estimation of reliability functions, regression models for reliability data, and fault tree analysis.

MATH 6370 Statistical Consulting 3 cr.

Prerequisite: consent of the department. Theory and practice of effective statistical consulting. Communication with clients, problem solving, and report writing. May be repeated for credit. Students may not count more than six semester hours credit for MATH 6370 toward a degree in Mathematics.

MATH 6372 Mathematics of Financial Derivatives 3 cr.

Prerequisite: credit or concurrent registration in MATH 4311 or the consent of the department. A brief introduction to financial derivatives, normal random variables, geometric brownian motion, stochastic differentiation, stochastic integration, Ito's lemma, the Black-Scholes PDE and its solution.

MATH 6381 Biostatistics 3 cr.

Prerequisite: MATH 6311 or consent of the department. Biostatistical design of medical studies, one- and two-sample inference, counting data, nonparametric, distribution-free and permutation models: robust procedures, simple and multiple regression, multiple comparisons, cross-over designs, discrimination and classification, and other topics.

MATH 6382 Statistical Analysis of Survival Data 3 cr.

Prerequisite: MATH 4301 or 4311 or 6301 or 6311 or consent of department. Failure times, censoring mechanisms, failure rates, survival functions, product limit estimators, covariates, Cox model, partial likelihood, exponential regression, rank tests, and other topics.

MATH 6385 Longitudinal Data Analysis 3 cr.

Prerequisite: MATH 4301 or 4311 or 6301 or 6311 or consent of department. Presentations of longitudinal data, general linear models for longitudinal data, parametric models for covariance structure, analysis of variance methods, marginal models, random effects models, methods for discrete longitudinal data.

MATH 6390 Topics in Probability and Statistics 3 cr.

Prerequisite: consent of department.

MATH 6411 Complex Analysis 3 cr.

Prerequisite: MATH 4411. Analytic continuation, reflection principle, argument principle, Rouché's theorem. Convergence of sequences, series, and infinite products of analytic functions. Entire functions, conformal mappings, Riemann mapping theorem, Riemann surfaces, gamma function, Riemann zeta function.

MATH 6450 Measure and Integration 3 cr.

Prerequisite: MATH 4102 or consent of department. Measure theory, integration, types of convergence, absolute continuity, function spaces.

MATH 6490 Topics in Analysis 3 cr.

Prerequisite: consent of department.

MATH 6611 Topology 3 cr.

Prerequisite: MATH 4611. Homotopy, dimension theory, uniform spaces, compactification and other basic advanced topics.

MATH 6612 Differential Topology and Geometry 3 cr.

One-time waiver

MATH 6998 Advanced Readings in Mathematics 1 min. cr. - 3 max. cr.

Prerequisite: consent of department. This course may be repeated to a total of six credits. The course consists of directed readings designed to meet the needs and interests of the individual student; regular conferences between

the student and the instructor are required. The section number will correspond with credit to be earned.

MATH 7000 Thesis Research 1 min. cr. - 9 max. cr.  
 To be repeated for credit until thesis is accepted. Section number will correspond with credit to be earned.

MATH 7040 Examination or Thesis Only 0 cr.  
 No credit. Open to students in a thesis program who have only (other than application for degree) the final typing and acceptance by the Graduate School of their thesis or dissertation or to students in a non-thesis program who have only (other than application for degree) to pass the final examination to complete graduation requirements.



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## Mechanical Engineering

- ENME 1781 Introduction to Engineering Design and Graphics 3 cr.  
Prerequisite: Credit or registration in MATH 2114 or credit or registration in MATH 2111 or credit or registration in MATH 2107. An introduction to engineering graphics and modeling fundamentals for engineering design: freehand sketching, computer modeling, and generation of engineering drawings. Introduction to the engineering design process: reverse engineering, aesthetic design, functional design, concurrent engineering, multi-disciplinary design teams, and design constraints. Two hours of lecture and three contact hours of laboratory per week.
- ENME 2711 Materials and Processes in Manufacturing Laboratory 1 cr.  
Prerequisite: ENME 1781, ENME 2740. Demonstrative and participative experiments supplementing ENME 2740 and ENME 2785 to provide a better understanding to of the properties of engineering materials and processes in manufacturing. Three contact hours of laboratory per week.
- ENME 2740 Structure and Properties of Materials 3 cr.  
Prerequisites: CHEM 1014 or 1017 and PHYS 1061. Introduction to the structure and formation of metals, alloys, and polymeric materials and their chemical, electrical, mechanical, and thermodynamical properties; surface structures and their observation, using a metallograph and selected microscopes.
- ENME 2750 Dynamics 3 cr.  
Prerequisites: ENCE 2350 and (MATH 2124 OR MATH 2109 OR MATH 2112). Kinematics, kinetics, work and energy, impulse and momentum. Three hours of lecture and one hour of recitation.
- ENME 2770 Engineering Thermodynamics 3 cr.  
Prerequisites: PHYS 1062 AND (MATH 2124 OR MATH 2109 OR MATH 2112). Basic laws of thermodynamics; equilibrium; entropy; availability; flow and non-flow processes.
- ENME 2785 Introduction to Manufacturing 3 cr.  
Prerequisites: ENME 1781 and ENME 2740. An introduction to manufacturing methods, including casting, forming, powder metallurgy, machining, and joining, in the context of designing for manufacturing.
- ENME 3020 Engineering Analysis 3 cr.  
Prerequisites: MATH 2221 and MATH 2134. Application of ordinary differential equations, Laplace and Fourier transforms, Fourier series, partial differential equations, and linear algebra to selected problems in Civil, Mechanical, and Naval Architecture and Marine Engineering; introduction to probability and statistics; introduction to numerical methods and use of a commercial software package in solving problems in above topics.
- ENME 3092 Mechanical Engineering Design Project 3 cr.  
Prerequisites: Junior standing and consent of department. Individual or team study and evolution of a project involving engineering. Comprehensive oral and written reports are required.
- ENME 3093 Special Problems in Mechanical Engineering 1 cr.  
Prerequisite: Junior standing in engineering. Seminar, independent study, and research participation in mechanical engineering.

ENME 3094	Special Problems in Mechanical Engineering	1 cr.
Prerequisite: Junior standing in engineering. Seminar, independent study, and research participation in mechanical engineering.		
ENME 3095	Special Problems in Mechanical Engineering	1 cr.
Prerequisite: Junior standing in engineering. Seminar, independent study, and research participation in mechanical engineering.		
ENME 3711	Thermal Sciences Laboratory	1 cr.
Prerequisites: credit in ENME 3771 or consent of department. A laboratory in engineering thermodynamics and heat transfer. Three hours of laboratory.		
ENME 3716	Fluid Mechanics Laboratory	1 cr.
Prerequisite: credit or registration in ENME 3720 or consent of department. A laboratory in engineering fluid mechanics and hydraulics. Three hours of laboratory.		
ENME 3720	Fluid Mechanics	3 cr.
Prerequisites: (MATH 2134 or MATH 2115), MATH 2221 AND ENME 2750. Fluid statics, concepts, principles, and methods of fluid motion, potential flow. Introduction to boundary layer; turbulence and drag; dimensional analysis and similitude.		
ENME 3734	Machine Elements	3 cr.
Prerequisites: ENCE 2351 and ENME 2740. Application of engineering mechanics to the design and selection of machine elements. Fatigue. Working stresses. Failure theories.		
ENME 3735	Mechanism Design	3 cr.
Prerequisites: CSCI 1201 or 1205 and ENME 2750. Kinematic synthesis of mechanisms and dynamics of machinery; design of mechanisms to generate required point paths, functions, or transformations between modes of motion; translation to rotation; graphical, analytical, and computer-aided design methods.		
ENME 3757	Introduction to Mechanical Control Systems	3 cr.
Prerequisites: ENME 2750, MATH 2221, and ENEE 2500; or consent of department. Mathematical modeling of mechanical systems; model linearization; methods of solution and simulation; basic notions of feedback control algorithms; transfer functions, frequency response, and system identification and stability.		
ENME 3761	Introduction to Nuclear Engineering	3 cr.
Prerequisites: credit or registration in PHYS 2064 and ENME 3770 or consent of department. Radiation decay; detection; protection and safety. Applications of radioactive isotopes; introduction to nuclear power, nuclear fuels, fuel cycle, and power plant design.		
ENME 3771	Heat Transfer	3 cr.
Prerequisites: MATH 2221 & ENME 3720 & 3770 & (CSCI 1201 or 1205) . Steady and unsteady conduction; natural and forced convection; radiation; heat exchangers; introduction to two-phase heat transfer. Computer-aided solutions to heat transfer problems.		
ENME 3772	Environmental Control Systems	3 cr.
Prerequisite: ENME 3771. The principles of heating, ventilating, air conditioning, and refrigeration; application to environmental control systems. Emphasis is on the selection of equipment and the design of various systems, including automatic controls.		
ENME 3776	Intermediate Engineering Thermodynamics	3 cr.
Prerequisite: ENME 3770. Application of principles of thermodynamics; vapor and gas cycles; internal combustion engines; steam and gas turbines, mixtures, thermodynamic relationships.		
ENME 3777	Energy Conversion	3 cr.
Prerequisite: ENME 3770. Direct energy conversion; magnetohydrodynamics; energy storage; vapor and gas cycles; applications and thermodynamic analysis; nuclear, hydrodynamic, solar, geothermal, and wind energy.		
ENME 3780	Introduction to Computational Solid Mechanics	3 cr.
Prerequisites: ENME 3734. An introduction to computational modeling in solid mechanics. Demonstration and application of the finite element method using commercial codes. Topics include: bar, beam, plate, shell, and solid		

elements, loads and boundary conditions, convergence, and interpretation of results.

ENME 3900 Senior Honors Thesis 1 min. cr. - 6 max. cr.

Prerequisites: admission to the Honors Program and consent of the director of the Honors Program and the chair of the department. Senior-level research and/or design project in mechanical engineering. Thesis and oral examination required. May be repeated for credit with total hours not to exceed six.

ENME 4023 Intermediate Engineering Analysis 3 cr.

Prerequisites for ENME 4023: MATH 2221 and ENME 3020.

Application of complex variables; contour integration; conformal mapping; Cartesian tensors; non-linear differential equations; and selected problems in mechanical engineering.

ENME 4096 Special Topics in Mechanical Engineering 3 cr.

Prerequisite for ENME 4096 and ENME 4097 : junior standing in engineering. Course may be taken for credit three times. No student may earn more than nine hours degree credit in courses ENME 4096 and 4097.

ENME 4097 Special Topics in Mechanical Engineering 3 cr.

Prerequisite for ENME 4096 and ENME 4097 : junior standing in engineering. Course may be taken for credit three times. No student may earn more than nine hours degree credit in courses ENME 4096 and 4097.

ENME 4720 Intermediate Fluid Mechanics 3 cr.

Prerequisites for ENME 4720: ENME 3720 and 3020 or consent of department. Study of the conservation equations governing viscous or inviscid flow of an incompressible fluid, and appropriate engineering approximation in engineering design. Introduction to numerical methods used to solve steady or unsteady viscous or inviscid, laminar, or turbulent flows.

ENME 4721 Gas Dynamics 3 cr.

Prerequisites for ENME 4721: MATH 2221, ENME 3720 and 3770. Conservation laws, one-dimensional flow, stationary and propagating normal shocks, quasi-one-dimensional flow, Rayleigh line flow, Fanno line flow, oblique shocks, Prandtl-Meyer expansions.

ENME 4722 Turbomachinery 3 cr.

Prerequisites for ENME 4722: ENME 3720 and 3770 or consent of department. Analysis of the fluids flows through a turbomachine for compressible and incompressible flows. Determination of blading design and orientation for various types of turbomachines. Axial and radial flow machines, centrifugal pumps, fans, and compressors are included along with some experimentation with turbomachines.

ENME 4723 Ocean and Coastal Engineering 3 cr.

(ENCE 4723, ENME 4723, and NAME 4723 are cross-listed). Prerequisite for ENCE 4723, ENME 4723 and NAME 4723 : ENME 3720 or ENCE 3318 or consent of the department.

Elements of wind and wave generation and forecasting, tidal phenomena, hurricanes, storm surge, tsunamis, interaction of waves and wind with coastal and offshore structures, coastal and estuary processes. Design aspects of various topics are discussed and analyzed: e.g., offshore structures, spar buoys, underwater pipelines, oil production risers, coastal protection, mooring cables, vortex shedding, gas flares, beach formation, harbor resonance, structure resonance, etc. A design project is required. This course addresses many of the coastal engineering issues in South Louisiana.

ENME 4724 Fluid Flow Systems 3 cr.

Prerequisite for ENME 4724: ENME 3720 or consent of department.

Properties of hydraulic fluids; hydraulic lines; pipe networks; principles and design of hydraulic and pneumatic control components and systems; fluid machinery.

ENME 4725 Incompressible Aerodynamics 3 cr.

Prerequisites for ENME 4725: ENME 3020 and 3720.

Basic phenomena of the external flow of incompressible fluid. Theoretical development of the lift of plane, cambered airfoils, and the lift and drag of the finite wing. Comparison and discussion of experimental values of lift and drag.

ENME 4728 Introduction to Computational Fluid Dynamics 3 cr.  
(NAME 4728 and ENME 4728 are cross-listed.) Prerequisites for ENME 4728 and NAME 4728: ENME 3720.

Classification of partial differential equations, mathematical description of fluid flow phenomena. Survey of various discretization methods for the equations of fluid mechanics, including finite difference, finite volume and weighted residual methods. Basic algorithms for solving fluid mechanics problems. Introduction to grid generation. Application of existing CFD codes to practical engineering problems.

ENME 4733 Machine Design 3 cr.  
Prerequisites: ENGL 2152, ENME 2785, ENME 3734 and ENME 3735. Theory and practice of machine design applied to entire machines. Complete design including drawings, analysis, written report, and oral presentation are required.

ENME 4734 Reliability, Availability, and Maintenance of Engineering Systems 3 cr.  
(NAME 4131, ENME 4734, and ENEE 4131 are cross-listed)

Prerequisite for ENME 4734 and ENEE 4131: MATH 2115 or 2134.

Prerequisite for NAME 4131: MATH 2134 (or MATH 2115) with a grade of C or better.

Review of probability and statistics; analytical stochastic models for component and system failures; strategies for inspection, maintenance, repair and replacement. Introduction to fault-tree and event-tree analysis; frequency and duration techniques; Markov models; and case studies.

ENME 4751 Advanced Dynamics 3 cr.  
Prerequisites for ENME 4751: ENME 2750 and MATH 2221.

Central force motion, three-dimensional kinetics, kinematics, and dynamics of rigid bodies; gyroscopic motion; Lagrange's equations; Hamilton's principle; and trajectories.

ENME 4752 Mechanical Systems Dynamics for Control 3 cr.  
Prerequisites for ENME 4752: ENME 2750, 3020 and ENEE 2500; or consent of department.

Mathematical modeling of mechanical electrical and electromechanical systems. Model linearization. Computer simulation. Mathematical modeling of dynamic systems in state space. Linear systems analysis in the time/frequency domain. Introduction to feedback control systems.

ENME 4753 Process Control Systems 3 cr.  
(ENEE 4534 and ENME 4753 are cross-listed)

Prerequisites for ENEE 4534: ENEE 3530 or ENME 3020 or MATH 3221. A study of contemporary automatic control methods for continuous industrial processes. Topics include characterization of typical process dynamics, plant identification, parameter estimation, controller tuning techniques, and industrial process instrumentation applications.

ENME 4754 Mechanical Vibrations 3 cr.  
Prerequisites for ENME 4754: ENME 2750; ENME 3020 or MATH 3221.

Single and double degree of freedom systems in free and forced motion, introduction to lumped parameter analysis of continuous systems, and vibration measurement devices.

ENME 4757 Intermediate Mechanical Vibrations 3 cr.  
Prerequisite for ENME 4757: ENME 3755 or consent of department. Fundamental phenomena of multi-degree discrete and continuous systems. Matrix methods of solution of discrete systems. Determination of natural frequencies and mode shapes of discrete and continuous systems. Methods of passive vibration control. Brief introduction to finite element methods.

ENME 4765 Introduction to Petroleum Engineering 3 cr.  
Prerequisites: CHEM 1014 or 1017; ENME 3720. An introduction to the oil and gas industry with focus on exploration and production. Topics include: petroleum geology, exploration, drilling, production, and subsurface management.

ENME 4770	Design of Solar Heating and Cooling Systems	3 cr.
Prerequisite for ENME 4770: credit or registration in ENME 3771 or consent of department. Availability and characteristics of solar energy; design performance and testing of flat plate and concentrating collectors; solar heating and cooling of buildings; air systems and water systems; storage systems; economics; typical designs; solar cells.		
ENME 4771	Intermediate Heat Transfer	3 cr.
Prerequisite for ENME 4771: ENME 3771 or consent of department.		
Review of basic modes of heat transfer; combined convection and radiation; boiling and condensation; introduction to numerical methods for solving heat transfer problems; application of heat transfer principles to related problems in engineering.		
ENME 4772	Internal Combustion Engines	3 cr.
Prerequisites for ENME 4772: ENME 3720 and 3776.		
Introduction of fundamental concepts and theories of internal combustion engines including ideal and real thermodynamic cycles, fuels, combustion, emissions, spark-ignition engines, and compression-ignition engines.		
ENME 4773	Energy Management	3 cr.
Prerequisites for ENME 4773: ENME 3720 and 3771 or consent of department. Technical elements of reducing energy consumption and costs; aspects of management and cost elements pertaining to engineering decision making; typical topics include electrical, utility, process, building and heating, ventilating and air conditioning systems; waste heat management and energy auditing.		
ENME 4774	Gas Turbine Systems	3 cr.
Prerequisites for ENME 4774: ENME 3720 and ENME 3776.		
Introduction to guiding principles in gas turbine cycles, combined power systems, turbine and compressor design procedures and performance prediction for both axial and radial flow turbines.		
ENME 4777	Design of Thermal-Fluid Systems	3 cr.
Prerequisites: ENME 3770 and 3771. Design of thermal-fluid systems utilizing the principles of heat transfer, thermodynamics, and fluid mechanics with emphasis on practical, economical designs. Semester projects are assigned to student groups; weekly progress reports, final written and oral reports required.		
ENME 4783	Introduction to Robotics	3 cr.
Prerequisites for ENME 4783: ENME 3735 or consent of department.		
Spatial description and transformations; forward kinematics; inverse kinematics; manipulator Jacobians; manipulator statics; and manipulator dynamics.		
ENME 5023	Intermediate Engineering Analysis	3 cr.
Prerequisites for ENME 5023: MATH 2221 and ENME 3020.		
Application of complex variables; contour integration; conformal mapping; Cartesian tensors; non-linear differential equations; and selected problems in mechanical engineering.		
ENME 5096	Special Topics in Mechanical Engineering	3 cr.
Prerequisite for ENME 5096 and ENME 5097 : junior standing in engineering. Course may be taken for credit three times. No student may earn more than nine hours degree credit in courses ENME 5096 and 5097.		
ENME 5097	Special Topics in Mechanical Engineering	3 cr.
Prerequisite for ENME 5096 and ENME 5097 : junior standing in engineering. Course may be taken for credit three times. No student may earn more than nine hours degree credit in courses ENME 5096 and 5097.		
ENME 5720	Intermediate Fluid Mechanics	3 cr.
Prerequisites for ENME 5720: ENME 3720 and 3020 or consent of department. Study of the conservation equations governing viscous or inviscid flow of an incompressible fluid, and appropriate engineering approximation in engineering design. Introduction to numerical methods used to solve steady or unsteady viscous or inviscid, laminar, or turbulent flows.		

ENME 5721 Gas Dynamics 3 cr.

Prerequisites for ENME 4721: MATH 2221, ENME 3720 and 3770. Conservation laws, one-dimensional flow, stationary and propagating normal shocks, quasi-one-dimensional flow, Rayleigh line flow, Fanno line flow, oblique shocks, Prandtl-Meyer expansions.

ENME 5722 Turbomachinery 3 cr.

Prerequisites for ENME 4722: ENME 3720 and 3770 or consent of department. Analysis of the fluids flows through a turbomachine for compressible and incompressible flows. Determination of blading design and orientation for various types of turbomachines. Axial and radial flow machines, centrifugal pumps, fans, and compressors are included along with some experimentation with turbomachines.

ENME 5723 Ocean and Coastal Engineering 3 cr.

(ENCE 4723, ENME 4723, and NAME 4723 are cross-listed). Prerequisite for ENCE 4723, ENME 4723 and NAME 4723 : ENME 3720 or ENCE 3318 or consent of the department.

Elements of wind and wave generation and forecasting, tidal phenomena, hurricanes, storm surge, tsunamis, interaction of waves and wind with coastal and offshore structures, coastal and estuary processes. Design aspects of various topics are discussed and analyzed: e.g., offshore structures, spar buoys, underwater pipelines, oil production risers, coastal protection, mooring cables, vortex shedding, gas flares, beach formation, harbor resonance, structure resonance, etc. A design project is required. This course addresses many of the coastal engineering issues in South Louisiana.

ENME 5724 Fluid Flow Systems 3 cr.

Prerequisite for ENME 4724: ENME 3720 or consent of department.

Properties of hydraulic fluids; hydraulic lines; pipe networks; principles and design of hydraulic and pneumatic control components and systems; fluid machinery.

ENME 5725 Incompressible Aerodynamics 3 cr.

Prerequisites for ENME 4725: ENME 3020 and 3720.

Basic phenomena of the external flow of incompressible fluid. Theoretical development of the lift of plane, cambered airfoils, and the lift and drag of the finite wing. Comparison and discussion of experimental values of lift and drag.

ENME 5728 Introduction to Computational Fluid Dynamics 3 cr.

(NAME 4728 and ENME 4728 are cross-listed.) Prerequisites for ENME 4728 and NAME 4728: ENME 3720.

Classification of partial differential equations, mathematical description of fluid flow phenomena. Survey of various discretization methods for the equations of fluid mechanics, including finite difference, finite volume and weighted residual methods. Basic algorithms for solving fluid mechanics problems. Introduction to grid generation. Application of existing CFD codes to practical engineering problems.

ENME 5734 Reliability, Availability, and Maintenance of Engineering Systems 3 cr.

(NAME 4131, ENME 4734, and ENEE 4131 are cross-listed)

Prerequisite for ENME 4734 and ENEE 4131: MATH 2115 or 2134.

Prerequisite for NAME 4131: MATH 2134 (or MATH 2115) with a grade of C or better.

Review of probability and statistics; analytical stochastic models for component and system failures; strategies for inspection, maintenance, repair and replacement. Introduction to fault-tree and event-tree analysis; frequency and duration techniques; Markov models; and case studies.

ENME 5751 Advanced Dynamics 3 cr.

Prerequisites for ENME 4751: ENME 2750 and MATH 2221.

Central force motion, three-dimensional kinetics, kinematics, and dynamics of rigid bodies; gyroscopic motion; Lagrange's equations; Hamilton's principle; and trajectories.

ENME 5752 Mechanical Systems Dynamics for Control 3 cr.

Prerequisites for ENME 4752: ENME 2750, 3020 and ENEE 2500; or consent of department.

Mathematical modeling of mechanical electrical and electromechanical systems. Model linearization. Computer simulation. Mathematical modeling of dynamic systems in state space. Linear systems analysis in the time/frequency domain. Introduction to feedback control systems.

ENME 5753      Process Control Systems      3 cr.  
(ENEE 4534 and ENME 4753 are cross-listed)

Prerequisites for ENEE 4534: ENEE 3530 or ENME 3020 or MATH 3221. A study of contemporary automatic control methods for continuous industrial processes. Topics include characterization of typical process dynamics, plant identification, parameter estimation, controller tuning techniques, and industrial process instrumentation applications.

ENME 5754      Mechanical Vibrations      3 cr.  
Prerequisites for ENME 4754: ENME 2750; ENME 3020 or MATH 3221.

Single and double degree of freedom systems in free and forced motion, introduction to lumped parameter analysis of continuous systems, and vibration measurement devices.

ENME 5757      Intermediate Mechanical Vibrations      3 cr.  
Prerequisite for ENME 4757: ENME 3755 or consent of department. Fundamental phenomena of multi-degree discrete and continuous systems. Matrix methods of solution of discrete systems. Determination of natural frequencies and mode shapes of discrete and continuous systems. Methods of passive vibration control. Brief introduction to finite element methods.

ENME 5770      Design of Solar Heating and Cooling Systems      3 cr.  
Prerequisite for ENME 4770: credit or registration in ENME 3771 or consent of department. Availability and characteristics of solar energy; design performance and testing of flat plate and concentrating collectors; solar heating and cooling of buildings; air systems and water systems; storage systems; economics; typical designs; solar cells.

ENME 5771      Intermediate Heat Transfer      3 cr.  
Prerequisite for ENME 4771: ENME 3771 or consent of department.

Review of basic modes of heat transfer; combined convection and radiation; boiling and condensation; introduction to numerical methods for solving heat transfer problems; application of heat transfer principles to related problems in engineering.

ENME 5772      Internal Combustion Engines      3 cr.  
Prerequisites for ENME 4772: ENME 3720 and 3776.

Introduction of fundamental concepts and theories of internal combustion engines including ideal and real thermodynamic cycles, fuels, combustion, emissions, spark-ignition engines, and compression-ignition engines.

ENME 5773      Energy Management      3 cr.  
Prerequisites for ENME 4773: ENME 3720 and 3771 or consent of department. Technical elements of reducing energy consumption and costs; aspects of management and cost elements pertaining to engineering decision making; typical topics include electrical, utility, process, building and heating, ventilating and air conditioning systems; waste heat management and energy auditing.

ENME 5774      Gas Turbine Systems      3 cr.  
Prerequisites for ENME 4774: ENME 3720 and ENME 3776.

Introduction to guiding principles in gas turbine cycles, combined power systems, turbine and compressor design procedures and performance prediction for both axial and radial flow turbines.

ENME 5783      Introduction to Robotics      3 cr.  
Prerequisites for ENME 4783: ENME 3735 or consent of department.

Spacial description and transformations; forward kinematics; inverse kinematics; manipulator Jacobians; manipulator statics; and manipulator dynamics.



ENME 6356	Mechanics Of Composite Materials	3 cr.
Prerequisites: ENCE 6353 or consent of department. Analysis of stress, strain, and strength of fiber reinforced composite laminates. Topics include laminated plate theory, stress analysis of orthotropic plates, damage mechanisms, fatigue, impact, and environmental effects.		
ENME 6357	Fracture Mechanics	3 cr.
Prerequisite: ENME 6354 or 6355 or 6756 or consent of department. Stationary crack under static loading, energy balance and crack growth, crack initiation and growth, dynamic crack growth, fatigue, fracture of composite material.		
ENME 6364	Advanced Composite Materials	3 cr.
Prerequisite: Consent of the Department. Thermal and Moisture Effects on Composite materials, Stress State of composite beams under long term loading, viscolastic displacement of beams, torsion of laminated beams. Optimum design of composite material structures, mechanics of sandwich structures.		
ENME 6720	Advanced Fluid Mechanics	3 cr.
Prerequisite: ENME 4720 or consent of department. Continuity; stream and potential function; irrotational flow; Laplace Euler and Bernoulli equations; standard patterns of flow; conformal transformations; Schwarz-Christoffel theorem; and vortex motion.		
ENME 6721	Advanced Gas Dynamics	3 cr.
Prerequisite: ENME 4721. Derivation of the differential conservation equations for inviscid flows; unsteady wave motion; acoustic theory; shock tube relations; linearized supersonic flow; numerical techniques for steady supersonic flow; and viscous compressible flow.		
ENME 6724	Viscous Flow	3 cr.
Prerequisites: ENME 3720 or consent of the department. Fundamental Equations of viscous fluid flow. Newtonian viscous flow, Stokes assumptions, and exact solutions to Navier-Stokes equations. Order of magnitude analysis. Similarity solution. Integral equations of viscous flow. Duct flow, free shear flow, creeping flows, and free convection flow. Introduction to flow instabilities and turbulence.		
ENME 6727	Turbulence	3 cr.
Prerequisites: ENME 3720 and 3020 or consent of Department. Fundamental mechanics of turbulence, wakes, jets and plumes. Structure of time averaged flows, flow instability, Reynolds stresses, spectral dynamics, and scales of turbulence. First order models: algebraic, one-equation and two-equation models. Second order models, Reynolds stresses, multi-equation models.		
ENME 6728	Advanced Computational Fluid Dynamics (CFD)	3 cr.
Prerequisites: ENME 3720 and 3020, ENME 4728, and CSCI 1201, or consent of department. Numerical modeling of the equations of fluid mechanics. Equation classification, theory of characteristics. Survey of discretization methods: finite difference, finite volume, integral methods. Basic grid generation techniques. Stability analysis for finite difference equations. Discretization techniques applied to steady state and time dependent problems in multi-dimensions. Navier-Stokes equations, inviscid and viscous flow. Course will include projects to develop finite difference codes in areas relevant to student's research interests.		
ENME 6730	Multiphase Flow	3 cr.
Prerequisites: ENME 3720. Fundamentals of various physical interactions in flow systems involving more than one phase, including gas-solid, gas-liquid, liquid-solid, and three-phase interactions. Primary emphasis is placed on the fluid dynamics of particles, droplets, and bubbles suspended in a fluid. The effects of phenomena such as Brownian motion, Basset effect, Magnus effect, virtual or apparent mass effect, shear lift, surface charge, particle and droplet mobility, electro-phoresis, thermo-phoresis, photo-phoresis, and diffusion-phoresis are covered. Applications to multiphase system equipment and processes such as dust collectors, fluidized beds, aerodynamic ablation, xerography, atomizers, combustors, evaporation, droplet coalescence and break-up, cavitation, and aeration are highlighted.		
ENME 6753	Advanced Continuum Mechanics	3 cr.
Prerequisite: consent of department. Kinematics of motion and deformation; general development of balance equations of continuum mechanics; theory of constitutive equations; study of the constitutive equations for elastic, hyperelastic, viscoelastic, and plastic materials.		

ENME 6755	Advanced Vibrations	3 cr.
Prerequisite: ENME 4757. Lagrange's equations of motion and their application to vibration analysis; multi-degree of freedom systems; matrix methods; and transients.		
ENME 6756	Theory of Plasticity	3 cr.
Prerequisite: ENCE 6353 or consent of department. Stress and strain tensors; elastic stress-strain relations criteria of yielding; plastic stress-strain relations; elastoplastic problems of spheres and cylinders; the plane elastoplastic problem; the slip-line field.		
ENME 6758	Advanced Computational Methods in Solid Mechanics	3 cr.
Prerequisites: ENME 3020 or consent of department. Numerical methods for solving problems involving deformable solids. Variational methods including Galerkin, Rayleigh-Ritz, and other weighted residual techniques are covered. Finite difference, finite element, and boundary element techniques are presented.		
ENME 6770	Advanced Thermodynamics	3 cr.
Prerequisites: ENME 3770 or consent of department. Review of basic laws of classical thermodynamics. Reversible and irreversible processes. Second law analysis. Entropy and availability. Maxwell relations. Thermodynamics of mixtures, first and second law of reacting systems. Phase equilibrium. Introduction to statistical thermodynamics.		
ENME 6771	Conduction Heat Transfer	3 cr.
Prerequisite: ENME 4771 or consent of department. Conduction heat transfer; steady state and transient system; one-dimensional, two-dimensional, and three-dimensional systems.		
ENME 6772	Convection Heat Transfer	3 cr.
Prerequisites: ENME 4771 and 4720 or consent of department. Forced and free convection heat transfer in laminar and turbulent flow; condensation and evaporation; and special heat transfer processes.		
ENME 6773	Radiation Heat Transfer	3 cr.
Prerequisite: ENME 4771. Radiative heat exchange among specularly and diffusely reflecting surfaces; radiant interchange in participating media; combined radiation, conduction, and convection; and advanced topics.		
ENME 6774	Computational Heat Transfer	3 cr.
Prerequisites: ENME 3771 or consent of the department. Foundations of finite - difference and finite element methods. Classification of governing differential equations in heat transfer. Discrete approximations of derivatives. Methods of solving sets of algebraic equations, computational methods for steady state, parabolic, elliptic, and hyperbolic type of heat transfer problems. Non-linear heat transfer problems. Introduction to grid generation.		



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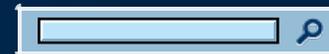
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## Military Science

### MILS 1001 Dynamics of Leadership I & Lab

2 cr.

Offered fall semester. An introductory course on the history and organization of Army ROTC and an initial study of leadership traits, principles, and characteristics. The student is introduced to the characteristics and capabilities of individual and crew-served weapons such as the M-16 rifle and the M-60 machine gun. The student is further oriented to the customs and courtesies of the military service and is given a brief overview of the present pay system, service benefits, and the national defense structure, and the basic organization and functions of a military squad and platoon. Course includes periodic field trips. Two hours of lecture.

### MILS 1002 Dynamics of Leadership II & Lab

2 cr.

Offered spring semester. Prerequisite: MILS 1001 or consent of department. A continuation of leadership training to include: weapons training (assembly and disassembly procedures for the M-16 rifle and M-60 machine gun), communications (radio-telephone procedures, use of a CEOI), first-aid (bleeding, shock, burns, fractures, CPR), and concluding with training in NBC (nuclear, biological, chemical) topics. Course includes periodic field trips. Two hours of lecture.

### MILS 2001 Management Techniques I & Lab

2

cr.

Offered fall semester. Prerequisite: MILS 1002 or consent of department. The course begins with an introduction to military map reading covering topics such as: grid coordinates, elevation, relief, distance, polar coordinates, intersection, and resection. Concludes with preliminary marksmanship instruction covering topics such as: mechanical training (assembly and disassembly, operation and functioning, care and cleaning, stoppage, immediate action, remedial action, malfunctions) and marksmanship fundamentals (aiming, steady hold factors, firing positions). Course includes training in physical conditioning and periodic field trips. Two hours of lecture and three hours of laboratory.

### MILS 2002 Management Techniques II & Lab

2 cr.

Offered spring semester. Prerequisite: MILS 2001 or consent of department. An introduction to management principles and techniques. Includes a discussion of leadership principles and application of leadership techniques. Course concludes with an introduction to military correspondence, discussion of customs and traditions, and Ranger Challenge skills such as knot tying and rope bridge. Course includes training in physical conditioning and periodic fields trips. Two hours of lecture and three hours of laboratory.

### MILS 2530 Military History

3

cr.

The purpose of this course is to survey and analyze the American military experience from its colonial origins to today's war on terrorism. As a class, we will reach this objective primarily by means of reading, writing, simulating, analyzing, and discussing our subject and by visiting a museums. We will examine the evolution of U.S. joint and coalition operations in the context of warfare in the Western World, that is, from a comparative and multi-national perspective. This course, then, looks most closely at operational military history. Far from taking



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MILS 5002 Professionalism of Leadership II & Lab 2 cr.  
Spring semester. Prerequisite: MILS 4001. Emphasis is on command and staff functions, planning and preparation of training, logistics, and personal management. Course concludes with the study of military justice and the law of war. Includes training in physical conditioning and periodic field trips. Two hours of lecture and one hour of laboratory.



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## Music

Not more than eight semester hours from Music 1901, 1902, 1903, 1904, 1905, 1906, 1907, 1908, 1950 may be offered for graduation.

**MUS 1000**      Music Appreciation      3 cr.  
Offered each semester. An appreciation and analysis from the viewpoint of the listener of representative works in Western art tradition, covering for example, selected masterworks of Bach, Handel, Mozart, Beethoven, Brahms, Tchaikovsky, Bartok, and Stravinsky. No previous knowledge of or about music is required.

**MUS 1003**      Early Jazz      3 cr.  
Offered each semester. An introduction to the principal movements, schools, and performers of American Jazz from the New Orleans Era through World War II. No previous knowledge of or about music is required

**MUS 1004**      Contemporary Jazz      3 cr.  
Offered each semester. An introduction to the principal innovators styles and schools of jazz from World War II to the present. Music 1003 and 1004 may be taken separately or in reverse order. No previous knowledge of or about music is required.

**MUS 1005**      Introduction to Music Literature      3 cr.  
An introduction to the classics of Western music with special regard to the manner in which traditional, popular, and non-Western musics have influenced the European and American traditions. This course is designed to expose the music major to a wide variety of musical styles, including the masterworks of European Classical Music, the uniquely American forms of ragtime, blues, jazz and musical theater, as well as rock and contemporary world music. Required of all music majors in the College of Liberal Arts; non-majors admitted with the permission of the Department. No prerequisites.

**MUS 1100**      Fundamentals of Music      3 cr.  
Offered each semester. An introduction to the rudiments of music theory including structure, notation, and written and aural skills.

**MUS 1101**      Theoretical Foundations I      6 cr.  
Comprised of three components - theory, musicianship and piano. A foundations course in the fundamentals of music grammar, melodic writing and two-voice 16th century contrapuntal techniques, aural and keyboard skills, sight-singing and rhythm training.

**MUS 1102**      Theoretical Foundations II      6 cr.  
Prerequisite: Music 1101 or equivalent. Comprised of three components - theory, musicianship and piano. Principles of tonal music as exemplified by selected Baroque composers. Emphasis on melody, rhythm, texture, figured bass, functional harmony, counterpoint, dramatic techniques, and formal structures of the Baroque era, aural and keyboard skills, sight-singing and rhythm training.

**MUS 1111**      Music Notation      1 cr.  
Offered each semester. An introduction to the fundamentals of music notation and music copying. Students will learn to organize and execute musical manuscripts both by hand and through the use of music engraving

software. Department consent required.

MUS 1200 Applied Lessons for Nonmajors 1 cr.  
Prerequisite: MUS 1100 or equivalent musical literacy displayed at required audition. Designed to provide private lesson instruction (30 minutes per week) for nonmajors. Four hours of personal practice per week based upon assignments from lessons is expected. Also available to music majors who want instruction in instruments other than their primary instrument. May be repeated four times for credit.

MUS 1401 Applied Keyboard 2 cr.  
Prerequisite: Acceptance into music department degree program, and/or audition. Private studio instruction (one hour per week) with expectation of ten hours per hours per week of independent practice time.

MUS 1402 Applied Keyboard 2 cr.  
Prerequisite: Acceptance into music department degree program, and/or audition. Private studio instruction (one hour per week) with expectation of ten hours per hours per week of independent practice time.

MUS 1405 Piano Class 2 cr.  
Offered each semester. Class instruction in piano for music majors not majoring in piano. Two one-hour classes and six hours practice per week. These courses are intended for music majors with little or no previous piano training.

MUS 1406 Piano Class 2 cr.  
Offered each semester. Class instruction in piano for music majors not majoring in piano. Two one-hour classes and six hours practice per week. These courses are intended for music majors with little or no previous piano training.

MUS 1407 Piano Class 2 cr.  
Offered each semester. Class instruction in piano for music majors not majoring in piano. Two one-hour classes and six hours practice per week. These courses are intended for music majors with little or no previous piano training.

MUS 1408 Piano Class 2 cr.  
Offered each semester. Class instruction in piano for music majors not majoring in piano. Two one-hour classes and six hours practice per week. These courses are intended for music majors with little or no previous piano training.

MUS 1431 Applied Keyboard-Principal 3 cr.  
Private instruction (one hour per week) or small group instruction (two hours per week).

MUS 1432 Applied Keyboard-Principal 3 cr.  
Private instruction (one hour per week) or small group instruction (two hours per week).

MUS 1501 Applied Voice 2 cr.  
Prerequisite: Acceptance into music department degree program, and/or audition. Private studio instruction (one hour per week) with expectation of ten hours per hours per week of independent practice time.

MUS 1502 Applied Voice 2 cr.  
Prerequisite: Acceptance into music department degree program, and/or audition. Private studio instruction (one hour per week) with expectation of ten hours per hours per week of independent practice time.

MUS 1505 Voice Class 2 cr.



MUS 1702	Applied Woodwind	2 cr.
Prerequisite: Acceptance into music department degree program, and/or audition. Private studio instruction (one hour per week) with expectation of ten hours per hours per week of independent practice time.		
MUS 1705	String Methods and Techniques	2 cr.
A study of the instruments of the string family with an emphasis on their teaching methods and techniques. Designed for the instrumental education major.		
MUS 1706	Woodwind Methods and Techniques	2 cr.
A study of the instruments of the woodwind family with an emphasis on their teaching methods and techniques. Designed for the instrumental music major.		
MUS 1707	Brass Methods and Techniques	2 cr.
A study of the instruments of the brass family with an emphasis on their teaching methods and techniques. Designed for the instrumental music major.		
MUS 1708	Percussion Methods and Techniques	2 cr.
A study of the instruments of the percussion family with an emphasis on their teaching methods and techniques. Designed for the instrumental music major.		
MUS 1711	Applied Brass	2 cr.
Prerequisite: Acceptance into music department degree program, and/or audition. Private studio instruction (one hour per week) with expectation of ten hours per hours per week of independent practice time.		
MUS 1712	Applied Brass	2 cr.
Prerequisite: Acceptance into music department degree program, and/or audition. Private studio instruction (one hour per week) with expectation of ten hours per hours per week of independent practice time.		
MUS 1721	Applied Percussion	2 cr.
Prerequisite: Acceptance into music department degree program, and/or audition. Private studio instruction (one hour per week) with expectation of ten hours per hours per week of independent practice time.		
MUS 1722	Applied Percussion	2
cr. Prerequisite: Acceptance into music department degree program, and/or audition. Private studio instruction (one hour per week) with expectation of ten hours per hours per week of independent practice time.		
MUS 1731	Applied Woodwind-Principal	3 cr.
Private instruction (one hour per week) or small group instruction (two hours per week).		
MUS 1732	Applied Woodwind-Principal	3 cr.
Private instruction (one hour per week) or small group instruction (two hours per week).		
MUS 1741	Applied Brass-Principal	3
cr. Private instruction (one hour per week) or small group instruction (two hours per week).		
MUS 1742	Applied Brass-Principal	3 cr.
Private instruction (one hour per week) or small group instruction (two hours per week).		
MUS 1781	Applied Percussion-Principal	3 cr.
Private instruction (one hour per week) or small group instruction (two hours per week).		
MUS 1782	Applied Percussion-Principal	3 cr.
Private instruction (one hour per week) or small group instruction (two hours per week).		
MUS 1900	Student Recital	0 cr.
No credit. Offered each semester. Performance laboratory required of all of enrollment. Meets for one hour weekly. May be repeated for credit. Pass-Fail grading.		
MUS 1901	Chamber Ensemble	1
cr.		



Students will gain an awareness of the technological innovations and evolution of musical trends and styles. Emphasis will be placed on attentive listening and ability to recognize the basic elements of music: melody, harmony, rhythm, form and lyrics.

MUS 2101	Music Theory III	3 cr.
Prerequisite: MUS 1102 or equivalent. Principles of tonal music as exemplified by selected Classic and Romantic composers. Emphasis on melody, rhythm, texture, modulation, functional and nonfunctional harmony, dramatic techniques, and formal structures of the Classic and Romantic eras.		
MUS 2102	Music Theory IV	3 cr.
Prerequisite: MUS 2101 or equivalent. Principles of tonal and atonal music as exemplified by selected 20th century composers. Emphasis on melody, rhythm, texture, harmony, counterpoint, color, dramatic techniques, and form structures of the 20th century.		
MUS 2103	Advanced Musicianship	1 cr.
Offered each semester. Continuation of MUS 1103 and 1104 coordinate with MUS 2101 and 2102. Two hours of class per week.		
MUS 2104	Advanced Musicianship	1 cr.
Offered each semester. Continuation of MUS 1103 and 1104 coordinate with MUS 2101 and 2102. Two hours of class per week.		
MUS 2109	Jazz Harmony and Theory	3 cr.
Prerequisites: MUS 1003 1102 and 1406 or consent of department. Introduction to the fundamentals of jazz harmony with emphasis placed on aural perception and keyboard interpretations of common chord progressions as they occur in the song-forms (A-B-A) and the blues.		
MUS 2110	Jazz Harmony and Theory	3 cr.
Prerequisite: MUS 2109 or consent of department. A continuation of MUS 2109 with increased emphasis placed on the study of harmonic progressions as found in the popular song forms and the blues and an introduction to the principals of chord substitution and reharmonization.		
MUS 2201	History of Music	3 cr.
Fall semester. Prerequisites: MUS 1102 and 1104. An historical survey of the art of music in the West from its tentative beginnings in Greek and Jewish music through the compositions of Beethoven.		
MUS 2202	History of Music	3 cr.
Spring semester. Prerequisites: MUS 1102 1104 and 2201 or consent of department. A continuation of MUS 2201 from the music of Schubert and Weber through the present.		
MUS 2205	Jazz Profiles	3 cr.
Prerequisite: MUS 1003 or consent of department. An historical study of the major jazz figures from the New Orleans period until the present day emphasizing the contributions of the principal innovators of each era. Intended for students enrolled in the Jazz Studies Performance and Arranging Emphases.		
MUS 2401	Applied Keyboard	2 cr.
Prerequisite: MUS 1402 or equivalent proficiency and enrollment in Music Department degree program. Private studio instruction (one hour per week) with expectation of ten hours per week of independent practice time.		
MUS 2402	Applied Keyboard	2 cr.
Prerequisite: MUS 1402 or equivalent proficiency and enrollment in Music Department degree program. Private studio instruction (one hour per week) with expectation of ten hours per week of independent practice time.		
MUS 2406	Advanced Piano Class	3 cr.
Prerequisite: MUS 1408 or equivalent. Small group instruction for piano secondaries who need additional training. Course will emphasize functional skills at the keyboard. Two hours of class and nine hours of practice per week.		
MUS 2431	Applied Keyboard-Principal	3 cr.
Private instruction (one hour per week) or small group instruction (two hours per week).		
MUS 2432	Applied Keyboard-Principal	3 cr.

Private instruction (one hour per week) or small group instruction (two hours per week).

MUS 2501 Applied Voice 2 cr.

Prerequisite: Acceptance into music department degree program, and/or audition. Private studio instruction (one hour per week) with expectation of ten hours per hours per week of independent practice time.

MUS 2502 Applied Voice 2 cr.

Prerequisite: Acceptance into music department degree program, and/or audition. Private studio instruction (one hour per week) with expectation of ten hours per hours per week of independent practice time.

MUS 2531 Applied Voice-Principal 3 cr.

Private instruction (one hour per week) or small group instruction (two hours per week).

MUS 2532 Applied Voice-Principal 3 cr.

Private instruction (one hour per week) or small group instruction (two hours per week).

MUS 2601 Applied Strings 2 cr.

Prerequisite: Acceptance into music department degree program, and/or audition. Private studio instruction (one hour per week) with expectation of ten hours per hours per week of independent practice time.

MUS 2602 Applied Strings 2 cr.

Prerequisite: Acceptance into music department degree program, and/or audition. Private studio instruction (one hour per week) with expectation of ten hours per hours per week of independent practice time.

MUS 2605 Jazz Keyboard Class 1 cr.

Prerequisite: MUS 1406 or consent of department. Small group instruction for students in the Jazz Studies Arranging Emphasis. Introduction to the fundamentals of chord voicings and harmonic progressions in the jazz idiom.

MUS 2606 Jazz Keyboard Class 1 cr.

Prerequisite: MUS 2605 or consent of department. Continuation of MUS 2605 emphasizing the fundamentals of chord voicings and harmonic progressions in the jazz idiom.

MUS 2631 Applied Strings-Principal 3 cr.

Private instruction (one hour per week) or small group instruction (two hours per week).

MUS 2632 Applied Strings-Principal 3 cr.

Private instruction (one hour per week) or small group instruction (two hours per week).

MUS 2701 Applied Woodwind 2 cr.

Prerequisite: Acceptance into music department degree program, and/or audition. Private studio instruction (one hour per week) with expectation of ten hours per hours per week of independent practice time.

MUS 2702 Applied Woodwind 2 cr.

Prerequisite: Acceptance into music department degree program, and/or audition. Private studio instruction (one hour per week) with expectation of ten hours per hours per week of independent practice time.

MUS 2711 Applied Brass 2 cr.

Prerequisite: Acceptance into music department degree program, and/or audition. Private studio instruction (one hour per week) with expectation of ten hours per hours per week of independent practice time.

MUS 2712 Applied Brass 2 cr.

Prerequisite: Acceptance into music department degree program, and/or audition. Private studio instruction (one hour per week) with expectation of ten hours per hours per week of independent practice time.

MUS 2721 Applied Percussion 2 cr.

Prerequisite: Acceptance into music department degree program, and/or audition. Private studio instruction (one hour per week) with expectation of ten hours per hours per week of independent practice time.

MUS 2722 Applied Percussion 2 cr.

Prerequisite: Acceptance into music department degree program, and/or audition. Private studio instruction (one hour per week) with expectation of ten hours per hours per week of independent practice time.

MUS 2731	Applied Woodwind-Principal	3 cr.
Private instruction (one hour per week) or small group instruction (two hours per week).		
MUS 2732	Applied Woodwind-Principal	3 cr.
Private instruction (one hour per week) or small group instruction (two hours per week).		
MUS 2741	Applied Brass	3 cr.
Private instruction (one hour per week) or small group instruction (two hours per week).		
MUS 2742	Applied Brass	3 cr.
Private instruction (one hour per week) or small group instruction (two hours per week).		
MUS 2781	Applied Percussion	3 cr.
Private instruction (one hour per week) or small group instruction (two hours per week).		
MUS 2782	Applied Percussion	3 cr.
Private instruction (one hour per week) or small group instruction (two hours per week).		
MUS 2801	Applied Composition	3 cr.
Prerequisite: MUS 2106 or consent of department. A study of the techniques of musical composition. Designed for the student whose applied area is composition. Special emphasis will be placed on the development of the student's individual style.		
MUS 2802	Applied Composition	3 cr.
Prerequisite: MUS 2106 or consent of department. A study of the techniques of musical composition. Designed for the student whose applied area is composition. Special emphasis will be placed on the development of the student's individual style.		
MUS 3091	Special Topics in Great Composers	3 cr.
Prerequisite: MUS 1000 or equivalent. MUS 3091 provides students who have taken a general music course greater exposure to composers and compositions from a specific era of music history, or specific musical genre; the era or genre varies each semester. Special emphasis will be given to understanding the music in its historical context. May be repeated 3 times for a maximum of 9 credit hours.		
MUS 3099	Senior Honors Thesis	1 min. cr. - 6 max. cr.
Prerequisite: consent of Music Department and the Honors Program. Directed research under a Music faculty member culminating in a written thesis. Course may be repeated up to three consecutive semesters for a total of six credits.		
MUS 3111	Conducting I	1 cr.
Prerequisite: MUS 2102 or consent of department. Introduction to basic gestures and patterns of conducting with emphasis on development of physical conducting technique and the application of technique in a variety of musical settings.		
MUS 3112	Conducting II	1 cr.
Prerequisite: MUS 3111 or consent of department. Development of skills acquired in MUS 3111. Introduction to subdivided and expanded patterns, left hand usage, basic stylistic gestures and patterns of conducting (including legato, staccato, and marcato), and gestures that indicate dynamic contrast. Continued emphasis on development of physical conducting technique and the application of technique in a variety of musical settings.		
MUS 3150	Music Theory Project	0 cr.
Required of Music Theory and Composition majors who select theory as an emphasis. This project will either be written analysis of a major work or a study on an appropriate theoretical subject as approved by the theory and composition faculty. A faculty committee will grade the project on a pass-fail basis.		
MUS 3200	Applied Lessons for Nonmajors	1 cr.
Prerequisite: MUS 1200 or equivalent musical literacy displayed at required audition. Designed to provide private lesson instruction (30 minutes per week) for nonmajors. Four hours of personal practice per week based upon assignments from lessons is expected. Also available to music majors who want instruction in instruments other		

than their primary instrument. May be repeated four times for credit.

MUS 3250	Music History Project	0 cr.
Required of music history majors. Written presentation, a research project subject to the approval of the music history faculty. A faculty committee will grade the project on a Pass-Fail basis.		
MUS 3401	Applied Keyboard	2 cr.
Prerequisite: MUS 3402 or equivalent proficiency and enrollment in Music Department degree program. Private studio instruction (one hour per week) with expectation of ten hours per week of independent practice time.		
MUS 3402	Applied Keyboard	2 cr.
Prerequisite: MUS 3402 or equivalent proficiency and enrollment in Music Department degree program. Private studio instruction (one hour per week) with expectation of ten hours per week of independent practice time.		
MUS 3431	Applied Keyboard-Principal	3 cr.
Private instruction (one hour per week) or small group instruction (two hours per week).		
MUS 3432	Applied Keyboard-Principal	3 cr.
Private instruction (one hour per week) or small group instruction (two hours per week).		
MUS 3451	Applied Keyboard	3 cr.
Private instruction (one hour per week).		
MUS 3452	Applied Keyboard	3 cr.
Private instruction (one hour per week).		
MUS 3501	Applied Voice	2 cr.
Prerequisite: Acceptance into music department degree program, and/or audition. Private studio instruction (one hour per week) with expectation of ten hours per hours per week of independent practice time.		
MUS 3502	Applied Voice	2 cr.
Prerequisite: Acceptance into music department degree program, and/or audition. Private studio instruction (one hour per week) with expectation of ten hours per hours per week of independent practice time.		
MUS 3531	Applied Voice-Principal	3 cr.
Private instruction (one hour per week) or small group instruction (two hours per week).		
MUS 3532	Applied Voice-Principal	3 cr.
Private instruction (one hour per week) or small group instruction (two hours per week).		
MUS 3551	Applied Voice	3 cr.
Private instruction (one hour per week).		
MUS 3552	Applied Voice	3 cr.
Private instruction (one hour per week).		
MUS 3601	Applied Strings	2 cr.
Prerequisite: Acceptance into music department degree program, and/or audition. Private studio instruction (one hour per week) with expectation of ten hours per hours per week of independent practice time.		
MUS 3602	Applied Strings	2 cr.
Prerequisite: Acceptance into music department degree program, and/or audition. Private studio instruction (one hour per week) with expectation of ten hours per hours per week of independent practice time.		
MUS 3631	Applied Strings-Principal	3 cr.
Private instruction (one hour per week) or small group instruction (two hours per week).		
MUS 3632	Applied Strings-Principal	3 cr.
Private instruction (one hour per week) or small group instruction (two hours per week).		
MUS 3651	Applied Strings	3 cr.
Private instruction (one hour per week).		

MUS 3652	Applied Strings	3 cr.
Private instruction (one hour per week).		
MUS 3701	Applied Woodwind	2 cr.
Prerequisite: Acceptance into music department degree program, and/or audition. Private studio instruction (one hour per week) with expectation of ten hours per hours per week of independent practice time.		
MUS 3702	Applied Woodwind	2 cr.
Prerequisite: Acceptance into music department degree program, and/or audition. Private studio instruction (one hour per week) with expectation of ten hours per hours per week of independent practice time.		
MUS 3705	Jazz Improvisation	3 cr.
Prerequisites: MUS 1102 and consent of department. A course in jazz improvisation designed to prepare the student with the theoretical background, aural skills, and improvisational techniques utilized in jazz performance.		
MUS 3706	Jazz Improvisation	3 cr.
Prerequisites: MUS 1102 and consent of department. A course designed to help the student to continue developing the theoretical background, aural skills, and improvisational techniques utilized in jazz performance.		
MUS 3711	Applied Brass	2 cr.
Prerequisite: Acceptance into music department degree program, and/or audition. Private studio instruction (one hour per week) with expectation of ten hours per hours per week of independent practice time.		
MUS 3712	Applied Brass	2 cr.
Prerequisite: Acceptance into music department degree program, and/or audition. Private studio instruction (one hour per week) with expectation of ten hours per hours per week of independent practice time.		
MUS 3721	Applied Percussion	2 cr.
Prerequisite: Acceptance into music department degree program, and/or audition. Private studio instruction (one hour per week) with expectation of ten hours per hours per week of independent practice time.		
MUS 3722	Applied Percussion	2 cr.
Prerequisite: Acceptance into music department degree program, and/or audition. Private studio instruction (one hour per week) with expectation of ten hours per hours per week of independent practice time.		
MUS 3731	Applied Woodwind-Principal	3 cr.
Private instruction (one hour per week) or small group instruction (two hours per week).		
MUS 3732	Applied Woodwind-Principal	3 cr.
Private instruction (one hour per week) or small group instruction (two hours per week).		
MUS 3741	Applied Brass-Principal	3 cr.
Private instruction (one hour per week) or small group instruction (two hours per week).		
MUS 3742	Applied Brass-Principal	3 cr.
Private instruction (one hour per week) or small group instruction (two hours per week).		
MUS 3751	Applied Woodwind	3 cr.
Private instruction (one hour per week).		
MUS 3752	Applied Woodwind	3 cr.
Private instruction (one hour per week).		
MUS 3761	Applied Brass	3 cr.
Private instruction (one hour per week).		
MUS 3762	Applied Brass	3 cr.
Private instruction (one hour per week).		
MUS 3771	Applied Percussion	3 cr.
Private instruction (one hour per week).		

MUS 3772	Applied Percussion	3 cr.
	Private instruction (one hour per week).	
MUS 3781	Applied Percussion-Principal	3 cr.
	Private instruction (one hour per week) or small group instruction (two hours per week).	
MUS 3782	Applied Percussion-Principal	3 cr.
	Private instruction (one hour per week) or small group instruction (two hours per week).	
MUS 3801	Applied Composition	3 cr.
	Prerequisite: MUS 2106 or consent of department. A study of the techniques of musical composition. Designed for the student whose applied area is composition. Special emphasis will be placed on the development of the student's individual style.	
MUS 3802	Applied Composition	3 cr.
	Prerequisite: MUS 2106 or consent of department. A study of the techniques of musical composition. Designed for the student whose applied area is composition. Special emphasis will be placed on the development of the student's individual style.	
MUS 3911	Music Education Teaching Lab Ensemble	0 cr.
	Offered each semester. Laboratory practice of rehearsal teaching skills, secondary instruments, and vocal ensemble techniques. Required of all music education students. One hour of laboratory each week. May be repeated for credit. Pass-fail grading.	
MUS 3912	Music Education Teaching Lab Ensemble	1 cr.
	Prerequisite: two semesters of MUS 3911. Offered each semester. Laboratory practice of rehearsal teaching skills, secondary instruments, and vocal ensemble techniques. Required of all music education students. One hour of laboratory each week. May be repeated for a total of two semesters. Pass-fail grading.	
MUS 3950	Half Recital In Performance	0 cr.
	Presentation of a public recital of at least 25 minutes of actual playing duration. Content of the program must be similar to that normally included in professional recitals. A faculty committee will approve the program and grade the performance on a pass-fail basis.	
MUS 3960	Half Recital in Composition No credit	0 cr.
	Required of music theory and composition majors who select composition as an emphasis. Presentation of a public recital of at least 25 minutes of actual musical duration. Content of the program will consist of compositions written during the student's compositional study. A faculty committee will approve the program and grade the recital on a Pass-Fail basis.	
MUS 3990	Full Recital	0 cr.
	Presentation of a public recital of at least 50 minutes of actual playing duration. Content of program must be similar to that normally included in professional recitals and must include works in several styles. A faculty committee will approve the program and grade the performance on a Pass-Fail basis.	
MUS 4001	Special Topics In Music	1 min. cr. - 3 max. cr.
	Prerequisite: Consent of department. Specific areas of interest will be studied under the direction of faculty member. Topics may vary from semester to semester. May be repeated for a maximum of 12 credit hours.	
MUS 4101	Contrapuntal Techniques	2 cr.
	Prerequisite: Consent of department and MUS 2102 or equivalent. A study of the contrapuntal techniques from the 18th century until the present as exemplified by such composers as Bach, Mozart, Brahms, and Hindemith. Required of undergraduate students in the Composition-Theory emphasis. The course will be available as an elective for graduate students	
MUS 4103	Digital Music Production	3 cr.
	Prerequisite: CSCI 1000 and consent of faculty. Must be able to demonstrate knowledge of basic computer protocol. This course provides exposure to computer-and synthesizer-based music production commonly used in the music industry. Students will be trained in the effective use of music synthesizers, as well as a variety of software programs which utilize MIDI (Musical Instrument Digital Interface) and audio-recording capabilities. This course will be helpful in teaching students how to notate their projects and assignments via the computer, provide	



Prerequisites: Consent of department, MUS 2101 2102 2201 and 2202. An intensive study of the music of the modern period from Debussy to the present.

MUS 4207 Seminar in Jazz History 3 cr.

Prerequisite: Consent of department. An historical study of America's classical music: jazz. This course will place emphasis on the contributions of the key performers and composers of jazz from its birth in New Orleans to the present day.

MUS 4208 Aesthetics of Music 3 cr.

Prerequisite: Consent of department. The study of the concepts of art, expressiveness, value, and beauty in music. Students will be expected to read the works of several leading writers that deal with the topic, engage in class discussions, and synthesize the ideas addressed in class in a variety of writing assignments.

MUS 4310 Vocal Pedagogy 2 cr.

Prerequisite: Consent of department. A study of vocal teaching techniques including anatomy of vocal tract, physiological process and acoustical properties. Two hours of lecture and one hour of laboratory each week

MUS 4311 Piano Pedagogy 2 cr.

Prerequisite: Consent of department, MUS 2402 or equivalent. An examination and discussion of piano teaching materials and methods with emphasis on the elementary level. Course will include supervised teaching and demonstration classes. Two hours of lecture and one hour of laboratory each week.

MUS 4312 Instrumental Music Pedagogy 2 cr.

Prerequisite: Consent of the department. An introduction to the methods and materials for teaching instrumental music for the performance major. This course is designed to provide the instrumental music performance major with the skills and knowledge necessary for success as a studio teacher and clinician. Two hours of lecture and one hour of laboratory each week. Required of all undergraduate Classical division instrumental performance majors.

MUS 4705 Advanced Jazz Improvisation I 3 cr.

Prerequisites: MUS 3706 and consent of department. A continuation of MUS 3706 with the objective of developing a personal style. Development of harmonic, melodic, rhythmic and aural skills applicable to contemporary jazz performance. Course activities include three major transcription/analysis/research/performance projects.

MUS 4706 Advanced Jazz Improvisation II 3 cr.

Prerequisites for MUS 4706: MUS 4705 or consent of department.

Prerequisites for MUS 5706: MUS 5705 or consent of department.

A continuation of MUS 4705 with the objective of developing a personal style. Development of harmonic, melodic, rhythmic and aural skills applicable to contemporary jazz performance. Course activities include three major transcription/analysis/research/performance projects, as well as composition/arranging projects.

MUS 4801 Applied Composition 3 cr.

Prerequisite: MUS 3802 or equivalent. Applied composition with an emphasis on large-scale works.

MUS 4802 Applied Composition 3 cr.

Prerequisite: MUS 4801 or equivalent. Applied composition with an emphasis on large-scale works.

MUS 4807 Jazz Arranging/Composition 2 cr.

Prerequisite: MUS 2110 and consent of department. A study of composing and arranging techniques for both small and large ensembles.

MUS 4808 Advanced Jazz Arranging/Composition 3 cr.

Prerequisite for MUS 4808: MUS 4807 or consent of department.

Prerequisite for MUS 5808: MUS 5807 or consent of department.

Continuation of MUS 3807 with emphasis on both arrangements and original compositions for the larger ensembles. Private or small group instruction.

MUS 4818 Seminar in Choral Repertory 3 cr.



acting with particular emphasis on training the singing actor. Coaching in operatic scenes and training in the basic principles of dramatic aspects of opera. In addition to participation in the ensemble, extra duties of a responsible nature will be assigned. May be repeated for credit. A maximum of three hours credit in ensembles may be applied toward a graduate degree.

MUS 5001 Special Topics In Music 1 min. cr. - 3 max. cr.

Prerequisite: Consent of department. Specific areas of interest will be studied under the direction of faculty member. Topics may vary from semester to semester. May be repeated for a maximum of 12 credit hours.

MUS 5101 Contrapuntal Techniques 2 cr.

Prerequisite: Consent of department and MUS 2102 or equivalent. A study of the contrapuntal techniques from the 18th century until the present as exemplified by such composers as Bach, Mozart, Brahms, and Hindemith. Required of undergraduate students in the Composition-Theory emphasis. The course will be available as an elective for graduate students

MUS 5103 Digital Music Production 3 cr.

Prerequisite: CSCI 1000 and consent of faculty. Must be able to demonstrate knowledge of basic computer protocol. This course provides exposure to computer-and synthesizer-based music production commonly used in the music industry. Students will be trained in the effective use of music synthesizers, as well as a variety of software programs which utilize MIDI (Musical Instrument Digital Interface) and audio-recording capabilities. This course will be helpful in teaching students how to notate their projects and assignments via the computer, provide a means to create virtual performances of their music compositions, and introduce techniques of digital music editing and film synchronization.

MUS 5105 Advanced Orchestration 3 cr.

Prerequisites: MUS 2105 2106 and consent of department. A study of advanced orchestration techniques with an emphasis on late nineteenth and twentieth century practices.

MUS 5106 Audio Recording 3 cr.

Prerequisite: Consent of department. This course is an examination of the art and science of audio recording and an introduction to advanced recording systems. The curriculum will cover signal flow as it applies to recording, microphone characteristics and applications, use of hardware and software-based audio effects, synchronization formats, and other topics related to tracking, mixing, and mastering.

MUS 5109 Advanced Jazz Harmony and Theory 3 cr.

Prerequisite: MUS 2110 and consent of department. An introduction to modal and polychordal harmonies with emphasis on analysis of extended form.

MUS 5110 Advanced Jazz Harmony and Theory 3 cr.

Prerequisite for MUS 4110: MUS 4109 or consent of department.

Prerequisite for MUS 5110: MUS 5109 or consent of department.

A continuation of MUS 4109 with increased emphasis on the creation of "original" jazz compositions employing modal polychordal harmonies and extended forms.

MUS 5203 Studies in Baroque Music 3 cr.

Prerequisites: Consent of department, MUS 2101 2102 2201 and 2202. A study of the development of western music from the Nuove Musiche through the death of J. S. Bach.

MUS 5204 Studies in Music of the Classical Era 3 cr.

Prerequisites: Consent of department, MUS 2101, 2102, 2201, and 2202,. An intensive study of the music of the eighteenth and early nineteenth centuries, beginning with the emergence of the galant style and ending with the music of Beethoven's last period.

MUS 5205 Studies in Music of the Romantic Era 3 cr.

Prerequisites: Consent of department, MUS 2101 2102 2201 and 2202. An intensive study of the music of the nineteenth century beginning with the operas of Weber and ending with Mahler and the earlier works of Richard Strauss.

MUS 5206 Twentieth Century Music 3 cr.





MUS 6002	Directed Independent Study	1 min. cr. - 3 max. cr.
Prerequisite: consent of department. Independent study in the graduate student's area of specialization, under the direction of a designated member of the graduate faculty. Credit is only applicable toward elective requirement. Total credit is limited to nine hours.		
MUS 6100	Graduate Theory in Performance	3 cr.
Prerequisites: MUS 4101 and 4102 or consent of department. This course is designed to demonstrate practical usage of theoretical ideas in musical performance.		
MUS 6101	Analytical Studies-Baroque Classical	3 cr.
A detailed study of selected major works of the Baroque and Classical periods		
MUS 6102	Analytical Studies-Romantic Twentieth Century	3 cr.
A detailed study of selected major works of the Romantic period and the Twentieth Century will be the basis of this study.		
MUS 6111	Seminar in Choral Conducting	3 cr.
Prerequisites: Consent of department and MUS 3111 - 3112 or equivalent. An advanced course in the interpretation of choral literature with special attention given to conducting technique, rehearsal problems and their solutions, and score preparation. Laboratory experience will be provided. May be repeated once for credit by students with choral conducting emphasis.		
MUS 6112	Seminar in Instrumental Conducting	3 cr.
Prerequisite: Consent of department and MUS 3111 - 3112 or equivalent. An advanced course in the interpretation of instrumental literature with special attention given to conducting technique, rehearsal problems and their solutions, and score preparation. Laboratory experience will be provided. May be repeated once for credit by students with instrumental conducting emphasis.		
MUS 6191	Seminar in Music Theory	3 cr.
Prerequisite: consent of department MUS 6101 or 6102. An intensive study of a limited aspect of music theory through guided research and presentation of findings. Topic will vary from semester to semester. Course may be taken three times.		
MUS 6200	Music Research Methods and Materials	3 cr.
Prerequisite: Consent of department. This is a writing-intensive course designed to help graduate students develop skills in music research and in the various forms and styles of academic and professional writing in music. The major goal of this course is to prepare students for the intellectual challenges of graduate academic work, including research papers and comprehensive examinations, and for the professional music market and industry. Students will explore the various print and electronic music research resources and engage in numerous writing and research projects.		
MUS 6291	Seminar in Music History	3 cr.
An intensive study of a limited aspect of music history through guided individual research and presentation of findings. Topic will vary from semester to semester. Course may be taken three times		
MUS 6292	Music in 20th Century America	3 cr.
This course addresses the growth of European Classical music, jazz, and the rise of popular music in the United States from the era of Caruso and Toscanini through the techno-rap of the 1990s. Particular attention is paid to the manner in which 20th century American culture has shaped attitudes about music: how radio, the phonograph, television and the internet have influenced the music that Americans heard, and how these developments have altered their understanding of music during the 20th century. Intended for both Classical and Jazz Division graduate students; Others admitted with the permission of the department. No prerequisites.		
MUS 6300	Seminar in Jazz History	3 cr.
Prerequisite: MUS 2205 or consent of department. A focused study of the music of a single contributor or related group of contributors selected from the major innovators in jazz history. Topic will vary from semester to semester.		
MUS 6401	Applied Keyboard	3 cr.
Private instruction (one hour per week).		

MUS 6402	Applied Keyboard	3 cr.
	Private instruction (one hour per week).	
MUS 6431	Applied Keyboard-Principal	3 cr.
	Private instruction (one hour per week) or small group instruction (two hours per week).	
MUS 6432	Applied Keyboard-Principal	3 cr.
	Private instruction (one hour per week) or small group instruction (two hours per week).	
MUS 6501	Applied Voice	3 cr.
	Private instruction (one hour per week).	
MUS 6502	Applied Voice	3 cr.
	Private instruction (one hour per week).	
MUS 6531	Applied Voice-Principal	3 cr.
	Private instruction (one hour per week) or small group instruction (two hours per week).	
MUS 6532	Applied Voice-Principal	3 cr.
	Private instruction (one hour per week) or small group instruction (two hours per week).	
MUS 6601	Applied Strings	3 cr.
	Private instruction (one hour per week).	
MUS 6602	Applied Strings	3 cr.
	Private instruction (one hour per week).	
MUS 6631	Applied Strings-Principal	3 cr.
	Private instruction (one hour per week) or small group instruction (two hours per week).	
MUS 6632	Applied Strings-Principal	3 cr.
	Private instruction (one hour per week) or small group instruction (two hours per week).	
MUS 6701	Applied Woodwinds	3 cr.
	Private instruction (one hour per week).	
MUS 6702	Applied Woodwinds	3 cr.
	Private instruction (one hour per week).	
MUS 6705	Advanced Jazz Improvisation I	3 cr.
	Prerequisite: consent of department. Advanced Improvisation 1 focuses on the skills needed to achieve a personal style as an improviser. Contemporary harmonic, melodic and metric devices are discussed as well as techniques for aural development.	
MUS 6706	Advanced Jazz Improvisation II	3 cr.
	Prerequisite: consent of department. Advanced Improvisation 2 further examines themes introduced in Advanced Improvisation 1. The performance on, and creation of, musical works in odd and mixed meters, approaches to free improvisation, and synthetic harmonic invention are discussed as well as additional techniques for aural development.	
MUS 6711	Applied Brass	3 cr.
	Private instruction (one hour per week).	
MUS 6712	Applied Brass	3 cr.
	Private instruction (one hour per week).	
MUS 6721	Applied Percussion	3 cr.
	Private instruction (one hour per week).	
MUS 6722	Applied Percussion	3 cr.
	Private instruction (one hour per week).	
MUS 6731	Applied Woodwinds-Principal	3 cr.

Private instruction (one hour per week) or small group instruction (two hours per week).

MUS 6732 Applied Woodwinds-Principal 3 cr.

Private instruction (one hour per week) or small group instruction (two hours per week).

MUS 6741 Applied Brass-Principal 3 cr.

Private instruction (one hour per week) or small group instruction (two hours per week).

MUS 6742 Applied Brass-Principal 3 cr.

Private instruction (one hour per week) or small group instruction (two hours per week).

MUS 6781 Applied Percussion-Principal 3 cr.

Private instruction (one hour per week) or small group instruction (two hours per week).

MUS 6782 Applied Percussion-Principal 3 cr.

Private instruction (one hour per week) or small group instruction (two hours per week).

MUS 6801 Applied Composition 3 cr.

Private instruction (one hour per week).

MUS 6802 Applied Composition 3 cr.

Private instruction (one hour per week).

MUS 6831 Applied Composition-Principal 3 cr.

Private instruction (one hour per week) or small group instruction (two hours per week).

MUS 6832 Applied Composition-Principal 3 cr.

Private instruction (one hour per week) or small group instruction (two hours per week).

MUS 6900 Graduate Colloquium 0 cr.

A forum to discuss problems common to all musical disciplines and to seek creative solutions through dialogue within the academic community. Required of all graduate students. Will be graded as satisfactory or unsatisfactory.

MUS 6950 Half Recital 1 cr.

Presentation of a public recital of at least 30 minutes of actual playing duration. Content of the program must be similar to that normally included in professional recitals. A faculty committee will approve the program and grade the performance on a Pass-Fail basis.

MUS 6990 Graduate Recital 3

cr.

Presentation of a public recital of at least 60 minutes of actual playing duration. Content of the program must be similar to that normally included in professional recitals and must include works in several styles. A faculty committee will approve the program and grade the performance on a Pass-Fail basis.

MUS 7000 Thesis Research 1 min. cr. -

9 max. cr.

To be repeated for credit until thesis is accepted. Section number will correspond with credit to be earned.

MUS 7040 Examination or Thesis Only No credit 0 cr.

Open to students in a thesis program who have only (other than application for degree) the final typing and acceptance by the Graduate School of their thesis or dissertation or to students in a non-thesis program who have only (other than application for degree) to pass the final examination to complete graduation requirements.



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University Catalogs

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# Naval Architecture and Marine Engineering

NAME 1170 Introduction to Naval Architecture 3 cr.

Prerequisites: Credit or registration in Math 2114 (or MATH 2111 or Math 2108). An overview of the maritime industry, marine transportation systems, maritime organizations; types and purposes of commercial and naval ships, advanced marine vehicles and floating offshore structures; basics of shipbuilding, operation, safety, maintenance and environmental protection; various disciplines of naval architecture; introduction to major ship systems.

NAME 1175 Naval Architecture Laboratory 2 cr.

Prerequisites: MATH 2114 (or MATH 2111 or MATH 2108) and NAME 1170, all with a grade of C or better. Lines plan, general plan, construction drawings, 2D and 3D CAD applications, hull form generation, lofting, and fairing, spreadsheets and programming to solve naval architecture problems in numerical integration, linear algebra, and statistics.

NAME 2130 Introduction to Marine Engineering 3 cr.

Prerequisites: NAME 1175 with C or better. Introduction to machinery and equipment on ships, including propulsion systems, electrical systems, auxiliary systems, and deck machinery. Inter-relationship of machinery to overall ship design; sizing and location of machinery spaces; governing rules and regulations. Machinery space arrangements. Introduction to ship's piping systems.

NAME 2151 Introduction to Marine Design and Construction 3 cr.

Prerequisites: ENME 1781, ENCE 2350, and MATH 2111. Basic concepts of marine hydrostatics, resistance and propulsion, power systems, and seaway dynamics.

NAME 2160 Hydrostatics and Stability 3 cr.

Prerequisites: NAME 1175 (or NAME 2151) and MATH 2124 (or MATH 2112 or MATH 2109), all with a grade of C or better. Hydrostatic properties, determination of areas, volumes, displacement; and buoyancy of intact and damaged vessels and their stability; stability during dry docking and when grounded; probabilistic damage stability.

NAME 3093 Special Problems in Naval Architecture 1 cr.

Prerequisite: Junior standing in engineering. Seminar, independent study, and research participation in naval architecture.

NAME 3120 Ship Hull Strength 3 cr.

Prerequisite: ENCE 2351, MATH 2134 (or MATH 2115), MATH 2221, and NAME 2160, all with a grade of C or better. Longitudinal strength, simple beam theory, wave theory; weight, buoyancy, load, shearing force and bending moment curves; midship section modulus; composite hull girder; transverse strength; strain energy and

moment distribution methods; torsional strength; torsion of thin-walled, open sections; torque distribution; torsional loads; the use of classification society rules in the mid-ship section.

**NAME 3130 Marine Engineering I (Power Systems) 3 cr.**  
 Prerequisites ENME 3770 and NAME 3150. Marine diesel engines, gas turbines, their operating characteristics, performance and environmental limitations; main reduction gears, electric power generation and electric propulsion; engine-propeller matching, propeller characteristics, centrifugal and positive displacement pumps, cavitation, heat exchangers, valves, piping design, and auxiliary systems. Diesel engine selection for a given application and arrangement, determination of fuel requirements, development and sizing of a selected system for diesel engines.

**NAME 3131 Marine Engines 3 cr.**  
 Prerequisites: ENME 2770 (or ENME 3770), NAME 2130 (or NAME 3130), and NAME 3150, all with a grade of C or better. Review of marine engineering thermodynamics: First & Second Law, control volume analysis, thermodynamic cycles. Vapor and steam plants shipboard, marine steam turbines, Mollier diagram, superheat, reheat and regenerative cycles. Internal combustion engines (diesels, gas turbines) for marine power and propulsion: air-standard cycle analysis, regeneration, supercharging and cylinder torque balancing in piston engines, torsional vibrations. Fundamentals of marine engineering heat transfer and compressible flow as well as prime mover-propulsor matching.

**NAME 3135 Marine Electromechanical Engineering 3 cr.**  
 Prerequisites: ENEE 2500 and NAME 3131, all with a grade of C or better. Electromechanical energy conversion applied shipboard: Synchronous generators, induction motors, magnetic circuits and transformers, dc machines. Control engineering applied to marine systems: description of linear, time-invariant, single-input-single-output systems in the time and frequency domain, Bode plots; classical control design: root locus, pole placement; marine applications of servomechanisms, hydraulic and pneumatic actuators for steering gears, control surfaces and autopilot applications, rpm regulation and speed governors, generator load sharing etc.

**NAME 3150 Ship Resistance and Propulsion 3 cr.**  
 Prerequisites: ENME 3720, MATH 2134 (or MATH 2115), NAME 2160, all with a grade of C or better. Ship resistance; dimensional analysis and similitude; model test results, full scale prediction; propulsion systems; propellers and their interaction with the hull; cavitation; resistance and propulsion estimates.

**NAME 3155 Marine Hydrodynamics Laboratory 1 cr.**  
 Prerequisites: NAME 3150 with a C or better and credit or registration in NAME 3160. Marine model testing, review of laws of similitude, instrumentation and data processing, ITTC recommended procedures, resistance test; review of wave theory, generation of regular and irregular waves, seakeeping tests; error analysis

**NAME 3160 Offshore Structure and Ship Dynamics 3 cr.**  
 Prerequisites: ENME 3020 (or MATH 2314 or MATH 3221), NAME 3120, NAME 3150, all with a grade of C or better. Theory of ship and offshore structure motions in response to ocean waves, free vibration of single and multi degree of freedom systems; simple harmonic; general period, and random forced vibrations; transients; offshore structure oscillations; the dynamics of launching and platform assembly; hull and propeller vibrations maneuverability; and design applications.

**NAME 3171 Marine Design Methods 3 cr.**  
 Prerequisites: NAME 3120 and NAME 3150, all with a grade of C or better. Design spiral; Definition of design convergence; Selection of principal dimensions, arrangement drawings, lines plan development, 3D-modeling, CAD-CAM; Requirements-driven design; Resistance and propulsion; Economical and environmental assessment; Design organization and project management; Weight estimate; Margin policy development; Space- versus weight-driven design.

**NAME 3900 Senior Honors Thesis 1 min. cr. - 6 max. cr.**  
 Prerequisites: admission to the Honors Program and consent of the director of the Honors Program and the chair of the school. Senior-level research and/or design project in Naval Architecture and Marine Engineering. Thesis and oral examination required. May be repeated for credit with total hours not to exceed six.

NAME 4095 Special Topics in Marine Engineering 2  
 cr.  
 Course may be taken for credit three times.

NAME 4096 Special Topics in Naval Architecture 3  
 cr.  
 Prerequisite for NAME 4096: Junior standing in engineering.

May be taken for credit three times. No student may earn more than nine hours degree credit in Naval Architecture and Marine Engineering 4096 and 4097.

NAME 4097 Special Topics in Marine Engineering 3 cr.  
 Prerequisite for NAME 4097: Junior standing in engineering.

Courses may be taken for credit three times. No student may earn more than nine hours degree credit in NAME 4097.

NAME 4120 Ship Structural Analysis and Design 3 cr.  
 Prerequisite for NAME 4120: NAME 3120 with a grade of C or better.

Review of longitudinal strength; principal stress distributions and stress trajectories; local strength analysis; panels under lateral load; columns and stanchions; panels in buckling under uniform edge compression loading and panels under shear and combination loading; rational ship section design synthesis based on stress and loading hierarchy; primary, secondary, and tertiary stresses as criteria of strength in ship structural design, including grillage aspects.

NAME 4121 Analysis and Design of Floating Offshore Structures 3 cr.  
 Prerequisite for NAME 4121: NAME 2160 with a grade of C or better.

Design and analysis of floating offshore platforms in general. Unsteady hydrodynamics, linear and nonlinear water waves, prediction of wave forces on large and small bodies. Fluid pressure forces on moving bodies using relative motion approach and radiation/diffraction approach. Analysis and prediction of random waves and vessel response using spectral methods. Additional topics such as mooring analysis as time permits.

NAME 4122 Introduction to Marine Composites 3 cr.  
 Prerequisite for NAME 4122: NAME 3120 with a grade of C or better.

Composite materials are introduced presenting their classification, fundamental characteristics, and main advantages and disadvantages. Present and future applications within the marine industry are discussed together with the materials most commonly employed and available manufacturing methods. Elements of the mechanics of both laminate and sandwich topologies are analyzed. Additional topics cover their performance characteristics, failure, maintenance, repair, testing and regulatory aspects.

NAME 4131 Reliability, Availability, and Maintenance of Engineering Systems 3  
 cr.  
 (NAME 4131, ENME 4734, and ENEE 4131 are cross-listed)

Prerequisite for ENME 4734 and ENEE 4131: MATH 2115 or 2134.

Prerequisite for NAME 4131: MATH 2134 (or MATH 2115) with a grade of C or better.

Review of probability and statistics; analytical stochastic models for component and system failures; strategies for inspection, maintenance, repair and replacement. Introduction to fault-tree and event-tree analysis; frequency and duration techniques; Markov models; and case studies.

NAME 4133 Ship Production 3 cr.

Prerequisite for NAME 4133: Junior standing or consent of department. An examination of the shipbuilding industry and ship construction techniques is provided including analysis of the market and management theory for shipyards, product work breakdown structure, modular methodologies, manufacturing methods, outfitting and painting techniques, shipyard layout and organization, planning/scheduling, and accuracy/quality assurance. Emphasis is placed on welding and lean six sigma practices.

NAME 4136 Design of Marine Piping Systems 3 cr.

Prerequisite for NAME 4136: NAME 3130 or 3131 with a grade of C or better.

Piping system design process. Types of shipboard piping systems. Design guidance for particular systems. Ship's piping systems components - centrifugal and positive displacement pumps, valves, pipe sizes. Piping system drawings, piping pressure loss calculations and pump selection

NAME 4141 Curved Surface Design 3 cr.

Prerequisites for NAME 4141: MATH 2134 (or MATH 2115) with a grade of C or better.

Computer-aided design of curves and curved surfaces; differential geometry, B-splines/NURBS curves and surfaces; Properties, fairness, creation and modification of surfaces; Ship hull and propeller modeling.

NAME 4151 Small Craft Design 3 cr.

Prerequisite for NAME 4151: NAME 3120 and NAME 3150, all with a grade of C or better.

Motor and sailing yacht design, empirical methods for planning vessels, trim, lift, and drag in planing; Hydrofoil and wing theory; Use of standard series for resistance and performance prediction; Seakeeping, hull structure, hull materials, powering using supercavitating propellers or pump-jet of small craft.

NAME 4160 Ship Hydrodynamics II 3 cr.

Prerequisite for NAME 4160: NAME 3150 with a grade of C or better.

A study of ship hydrodynamic problems in the areas of viscous fluid motion, ideal fluid flow, two-dimensional hydrofoils, three-dimensional foils as well as propeller theory.

NAME 4162 Offshore Structures and Ship Dynamics II 3 cr.

Prerequisites for NAME 4162: MATH 2134 (or MATH 2115) and NAME 3160, all with a grade of C or better.

Linear oscillatory motion of floating bodies (Ships and Offshore Structures) due to water waves. Vibration theory, unsteady ideal flow theory, water wave theory, and linear ship motions theory. Prediction of ship platform motion in regular and irregular waves. Developments in hydroelasticity, maneuvering, and nonlinear ship motion. A laboratory experience will allow the students to compare theoretical and computer predicted motions with measured motions in wave/tow tank.

NAME 4170 Marine Design 3 cr.

Prerequisites: ENGL 2152, NAME 3131 (or NAME 3130), NAME 3160, and NAME 3171, all with a grade of C or better. Preliminary ship and offshore structures design to meet owner's general, environmental, and economical requirements; principal dimensions, form, power requirements and stability; outfitting; structural design; preparation of preliminary design drawings.

NAME 4171 Admiralty Law for Engineers 3 cr.

Prerequisites for NAME 4171: consent of department and Senior standing in engineering or equivalent.

An introduction to legal problems which confront engineers in marine design, construction, and operation. Applies to river and ocean transport and offshore production.

NAME 4175 Marine Design Project 3 cr.

Prerequisite for NAME 4175: NAME 4170. Students form design teams and complete a preliminary design for a vessel or offshore type selected by the term. Design project requirements include market studies and mission statement, parametric studies, hull form development, resistance estimates, machinery and propulsor selection, structural design, stability analysis, general arrangement and outfitting, weight and construction cost estimate and preliminary design drawings. Teams give formal presentations to industry and faculty and submit a written design report.

NAME 4177 Advanced Marine Vehicle Design 3 cr.

Prerequisite for NAME 4177: Credit or registration in NAME 3150.

A study of advanced marine vehicle design for high-speed transport; transport factor evaluation of high-speed craft, design of high multi-hull crafts, surface effect ships, hybrid vessels, and wing in ground craft.

NAME 4723 Ocean and Coastal Engineering 3 cr.

(ENCE 4723, ENME 4723, and NAME 4723 are cross-listed). Prerequisite for ENCE 4723, ENME 4723 and NAME 4723 : ENME 3720 or ENCE 3318 or consent of the department.

Elements of wind and wave generation and forecasting, tidal phenomena, hurricanes, storm surge, tsunamis, interaction of waves and wind with coastal and offshore structures, coastal and estuary processes. Design aspects of various topics are discussed and analyzed: e.g., offshore structures, spar buoys, underwater pipelines, oil production risers, coastal protection, mooring cables, vortex shedding, gas flares, beach formation, harbor resonance, structure resonance, etc. A design project is required. This course addresses many of the coastal engineering issues in South Louisiana.

NAME 4728 Introduction to Computational Fluid Dynamics 3 cr.

(NAME 4728 and ENME 4728 are cross-listed.) Prerequisites for ENME 4728 and NAME 4728: ENME 3720.

Classification of partial differential equations, mathematical description of fluid flow phenomena. Survey of various discretization methods for the equations of fluid mechanics, including finite difference, finite volume and weighted residual methods. Basic algorithms for solving fluid mechanics problems. Introduction to grid generation. Application of existing CFD codes to practical engineering problems.

NAME 5095 Special Topics in Marine Engineering 2 cr.

Course may be taken for credit three times.

NAME 5096 Special Topics in Naval Architecture 3 cr.

Prerequisite for NAME 4096: Junior standing in engineering.

May be taken for credit three times. No student may earn more than nine hours degree credit in Naval Architecture and Marine Engineering 4096 and 4097.

NAME 5097 Special Topics in Marine Engineering 3 cr.

Prerequisite for NAME 4097: Junior standing in engineering.

Courses may be taken for credit three times. No student may earn more than nine hours degree credit in NAME 4097.

NAME 5120 Ship Structural Analysis and Design 3 cr.

Prerequisite for NAME 4120: NAME 3120 with a grade of C or better.

Review of longitudinal strength; principal stress distributions and stress trajectories; local strength analysis; panels under lateral load; columns and stanchions; panels in buckling under uniform edge compression loading and panels under shear and combination loading; rational ship section design synthesis based on stress and loading hierarchy; primary, secondary, and tertiary stresses as criteria of strength in ship structural design, including grillage aspects.

NAME 5121 Analysis and Design of Floating Offshore Structures 3 cr.

Prerequisite for NAME 4121: NAME 2160 with a grade of C or better.

Design and analysis of floating offshore platforms in general. Unsteady hydrodynamics, linear and nonlinear water waves, prediction of wave forces on large and small bodies. Fluid pressure forces on moving bodies using relative motion approach and radiation/diffraction approach. Analysis and prediction of random waves and vessel response using spectral methods. Additional topics such as mooring analysis as time permits.

NAME 5122 Introduction to Marine Composites 3 cr.

Prerequisite for NAME 4122: NAME 3120 with a grade of C or better.

Composite materials are introduced presenting their classification, fundamental characteristics, and main advantages and disadvantages. Present and future applications within the marine industry are discussed together with the materials most commonly employed and available manufacturing methods. Elements of the mechanics of both laminate and sandwich topologies are analyzed. Additional topics cover their performance characteristics, failure, maintenance, repair, testing and regulatory aspects.

NAME 5131 Reliability, Availability, and Maintenance of Engineering Systems 3 cr.

(NAME 4131, ENME 4734, and ENEE 4131 are cross-listed)

Prerequisite for ENME 4734 and ENEE 4131: MATH 2115 or 2134.

Prerequisite for NAME 4131: MATH 2134 (or MATH 2115) with a grade of C or better.

Review of probability and statistics; analytical stochastic models for component and system failures; strategies for inspection, maintenance, repair and replacement. Introduction to fault-tree and event-tree analysis; frequency and duration techniques; Markov models; and case studies.

NAME 5133 Ship Production 3 cr.

Prerequisite for NAME 4133: Junior standing or consent of department. An examination of the shipbuilding industry and ship construction techniques is provided including analysis of the market and management theory for shipyards, product work breakdown structure, modular methodologies, manufacturing methods, outfitting and painting techniques, shipyard layout and organization, planning/scheduling, and accuracy/quality assurance. Emphasis is placed on welding and lean six sigma practices.

NAME 5136 Design of Marine Piping Systems 3 cr.

Prerequisite for NAME 4136: NAME 3130 or 3131 with a grade of C or better.

Piping system design process. Types of shipboard piping systems. Design guidance for particular systems. Ship's piping systems components - centrifugal and positive displacement pumps, valves, pipe sizes. Piping system drawings, piping pressure loss calculations and pump selection

NAME 5141 Curved Surface Design 3 cr.

Prerequisites for NAME 4141: MATH 2134 (or MATH 2115) with a grade of C or better.

Computer-aided design of curves and curved surfaces; differential geometry, B-splines/NURBS curves and surfaces; Properties, fairness, creation and modification of surfaces; Ship hull and propeller modeling.

NAME 5151 Small Craft Design 3 cr.

Prerequisite for NAME 4151: NAME 3120 and NAME 3150, all with a grade of C or better.

Motor and sailing yacht design, empirical methods for planning vessels, trim, lift, and drag in planing; Hydrofoil and wing theory; Use of standard series for resistance and performance prediction; Seakeeping, hull structure, hull materials, powering using supercavitating propellers or pump-jet of small craft.

NAME 5160 Ship Hydrodynamics II 3 cr.

Prerequisite for NAME 4160: NAME 3150 with a grade of C or better.

A study of ship hydrodynamic problems in the areas of viscous fluid motion, ideal fluid flow, two-dimensional hydrofoils, three-dimensional foils as well as propeller theory.

NAME 5162 Offshore Structures and Ship Dynamics II 3 cr.

Prerequisites for NAME 4162: MATH 2134 (or MATH 2115) and NAME 3160, all with a grade of C or better.

Linear oscillatory motion of floating bodies (Ships and Offshore Structures) due to water waves. Vibration theory, unsteady ideal flow theory, water wave theory, and linear ship motions theory. Prediction of ship platform motion in regular and irregular waves. Developments in hydroelasticity, maneuvering, and nonlinear ship motion. A laboratory experience will allow the students to compare theoretical and computer predicted motions with measured motions in wave/tow tank.

NAME 5171 Admiralty Law for Engineers 3 cr.

Prerequisites for NAME 4171: consent of department and Senior standing in engineering or equivalent.

An introduction to legal problems which confront engineers in marine design, construction, and operation. Applies to river and ocean transport and offshore production.

NAME 5175 Marine Design Project 3 cr.

Prerequisite for NAME 4175: NAME 4170. Students form design teams and complete a preliminary design for a vessel or offshore type selected by the term. Design project requirements include market studies and mission statement, parametric studies, hull form development, resistance estimates, machinery and propulsor selection, structural design, stability analysis, general arrangement and outfitting, weight and construction cost estimate and

preliminary design drawings. Teams give formal presentations to industry and faculty and submit a written design report.

NAME 5177      Advanced Marine Vehicle Design      3 cr.  
Prerequisite for NAME 4177: Credit or registration in NAME 3150.

A study of advanced marine vehicle design for high-speed transport; transport factor evaluation of high-speed craft, design of high multi-hull crafts, surface effect ships, hybrid vessels, and wing in ground craft.

NAME 5723      Ocean and Coastal Engineering      3 cr.  
(ENCE 4723, ENME 4723, and NAME 4723 are cross-listed). Prerequisite for ENCE 4723, ENME 4723 and NAME 4723 : ENME 3720 or ENCE 3318 or consent of the department.

Elements of wind and wave generation and forecasting, tidal phenomena, hurricanes, storm surge, tsunamis, interaction of waves and wind with coastal and offshore structures, coastal and estuary processes. Design aspects of various topics are discussed and analyzed: e.g., offshore structures, spar buoys, underwater pipelines, oil production risers, coastal protection, mooring cables, vortex shedding, gas flares, beach formation, harbor resonance, structure resonance, etc. A design project is required. This course addresses many of the coastal engineering issues in South Louisiana.

NAME 5728      Introduction to Computational Fluid Dynamics      3 cr.  
(NAME 4728 and ENME 4728 are cross-listed.) Prerequisites for ENME 4728 and NAME 4728: ENME 3720.

Classification of partial differential equations, mathematical description of fluid flow phenomena. Survey of various discretization methods for the equations of fluid mechanics, including finite difference, finite volume and weighted residual methods. Basic algorithms for solving fluid mechanics problems. Introduction to grid generation. Application of existing CFD codes to practical engineering problems.

NAME 6080      Systems Engineering      3 cr.  
Prerequisite: Consent of department. Introduction to the fundamentals of systems engineering. Presents a holistic approach to principles, methods, and tools for system engineering as applied to complex systems development. Systems engineering includes the analysis of complexity through decomposition and re-integration, the prediction of emergent properties, writing and providing traceability for requirements, methods for uncertainty and risk analysis as applied to cost and technology, and evolution of design and operations. Focuses on the conceptual phase of product definition, including technical, economic, market, environmental, regulatory, legal, manufacturing, and societal factors. Various standards, guides, and handbooks are applied to establish a basis for synthesis to a system domain.

NAME 6093      Independent Study in Naval Architecture      1 min. cr. - 6 max. cr.  
Individual projects in selected fields of naval architecture. Independent work under the direction of a faculty member on a subject of mutual interest. A written report will be required. Course may be repeated for credit but no more than a total of six credit hours may be applied toward a degree. Section number will correspond with credit to be earned.

NAME 6097      Advanced Special Topics in Marine Engineering      3 cr.  
Prerequisite: consent of school. Special lecture on subjects of current interest in marine engineering. May be taken for credit three times. No student may earn more than nine hours of degree credit in courses Naval Architecture and Marine Engineering 4096, 4097, 6097, 6098.

NAME 6098      Advanced Special Topics in Marine Engineering      3 cr.  
Prerequisite: consent of school. Special lecture on subjects of current interest in marine engineering. May be taken for credit three times. No student may earn more than nine hours of degree credit in courses Naval Architecture and Marine Engineering 4096, 4097, 6097, 6098.

NAME 6121      Marine Structural Vibrations      3 cr.  
Prerequisite: Naval Architecture and Marine Engineering 3160 or consent of department. This course focuses on vibration of ship and offshore structures including linear, nonlinear, and random vibrations and dynamic problems (slamming). The problems of vibration of plates and shells of ship hulls are also considered.

NAME 6122      Composite Structures      3 cr.

Prerequisites: ENCE 2351, MATH 2221. Composite materials used in engineering; calculation of characteristics of materials; theory of composite structures; strength, buckling, and vibration of composite plates and shells; thermal stresses; elements of the mechanics of sandwich structures.

NAME 6125      Advanced Offshore Engineering      3 cr.

Prerequisite: NAME 4121 or consent of department. This course will continue the study of offshore engineering begun in the introductory course. This course will review unsteady hydrodynamics, linear water waves, Morrison's equation approach to wave loading, and statistical description of ocean waves. Following will be a discussion of nonlinear water waves, diffraction and slowdrift forces. An advanced treatment of offshore platforms motions including the relative motion approach and numerical water wave diffraction and radiation methods. Also studied will be statistical prediction of short and long term extremes, reliability based design and viscous forces on cylinders. Additional topics as time permits.

NAME 6145      Parametric Hull Modeling and Shape Optimization      3 cr.

Prerequisite: NAME 3150, NAME 3160, NAME 4141 or instructor's permission. Parametric modeling of curves and surfaces, mathematical description of hulls, parametric design of ship and offshore structure hulls; Basics of optimization, optimization algorithms, multi-objective optimization, optimization of hulls with respect to resistance, propulsion and seakeeping based on stochastic models.

NAME 6160      Numerical Methods in Hydrodynamics      3 cr.

Prerequisites: NAME 4160, CSCI 1201 or knowledge of computer programming. Numerical methods for the solution of governing equations in hydrodynamics. Use of numerical integration, finite difference methods, and use of viscous flow calculation software to calculate fluid pressure, force, and the flow field around geometric bodies and ship hulls.

NAME 6164      Advanced Ship/Offshore Platform Motions      3 cr.

Prerequisite: NAME 4162 or consent of department. This course will continue the study of ship and platform motions begun in the introductory courses and address some additional advanced topics. These advanced topics will include: finite amplitude coupled ship motions in six-degrees of freedom described by Euler's equations of motion and Euler angle kinematics; nonlinear ship rolling motion and capsizing; ship maneuvering and control including rudder design and controls fixed stability; time-domain representation of hydrodynamic forces; analysis and design of motion reducing devices; etc.

NAME 6166      Probabilistic Ship/Offshore Platform Dynamics      3 cr.

Prerequisites: NAME 4162 or consent of department. Wind generated water waves which occur in nature are random. This course will continue the discussion of a vessel's response to a narrow banded random seaway begun in introductory courses and consider non-narrow banded and non-linear effects. Needed stochastic concepts such as ensemble averages, correlation functions, stationary and ergodic random processes, and power spectra are developed heuristically. Various spectral formulations will be considered. Short-term and long-term design in a given sea spectrum versus a family of spectra will be considered. Wave record analysis and generation will be discussed. Order statistics and their relation to extreme values will be studied. Recent developments in the field will also be considered.

NAME 6168      High Speed Hydrodynamics      3 cr.

Prerequisite: NAME 4160 and consent of the department. The principal contributions to the foundations of planing theory are reviewed to elucidate the driving physics of the planing hydrodynamics process and as a demonstration of the practical potential of approaches to analysis of calm-water planing of general hard-chine hull forms. Planing boat sea keeping analysis is presented and applied to modern hull forms. Applications to catamarans, both calm water and seaway dynamics, is included via computational methods.

NAME 6175      Design of Fixed Offshore Platforms      3 cr.

(ENCE 6375 and NAME 6175 are cross-listed) Prerequisites: ENCE 3356 (or NAME 3120), ENCE 4358 (or NAME 3120), ENCE 4340, or permission of Department. Design of fixed offshore platform structures and their foundations; loadings, materials, design codes; design examples.

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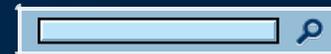
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## Naval ROTC

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                     |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------|
| NAVS 1010                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Introduction To Naval Science & Lab | 3 cr. |
| <p>A general introduction to the Navy and Marine Corps. The instruction places particular emphasis on the mission, organization, regulations, and broad warfare components of the Navy. Included is an overview of officer and enlisted rank and rating structures, the basic tenets of naval courtesy and customs, discipline, Navy Core Values, naval leadership, and ship's nonmenclature. The course also provides a conceptual framework/ working vocabulary for NROTC students to use on Summer Cruise. The student is made cognizant of the major challenges facing today's naval officer.</p> |                                     |       |
| NAVS 1020                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Seapower & Maritime Affairs & Lab   | 3 cr. |
| <p>Designed to develop the student's knowledge and interest in sea power and maritime affairs, this course is oriented towards the influence of sea power upon history and the implementation of sea power as an instrument of national policy. The survey begins with the age of galley warfare and concludes with an analysis of current military operations.</p>                                                                                                                                                                                                                                   |                                     |       |
| NAVS 1021                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Seapower Lab                        | 0 cr. |
| <p>A non-graded but mandatory laboratory which must be taken concurrently with NAVS 1020.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                     |       |
| NAVS 2010                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Naval Ship Systems I & Lab          | 3 cr. |
| <p>An introduction to the principles of ship design and operation. Ship stability, structure, main propulsion system, and auxiliary subsystems are carefully examined with emphasis on the interdependency of the subsystems which comprise the overall ship system.</p>                                                                                                                                                                                                                                                                                                                              |                                     |       |
| NAVS 2200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Leadership & Management & Lab       | 3 cr. |
| <p>A comprehensive study of organizational behavior and management. Topics include survey of management functions of planning, organizing, and controlling; and introduction to individual/group behavior in organizations; and extensive study of motivational/ leadership. Major behavior theories explored in detail. Practical applications explored through using experiential exercises, case studies, and laboratory discussions. Other topics include decision making communication, responsibility, authority, accountability, and total quality leadership.</p>                             |                                     |       |
| NAVS 3010                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Naval Ship Systems II & Lab         | 3 cr. |
| <p>This course provides an introduction to theory and principles of operation of naval weapons systems. It includes coverage of types of weapons and fire control systems, capabilities and limitations, theory of target acquisition, identification and tracking, trajectory principles, and basics of naval ordinance.</p>                                                                                                                                                                                                                                                                         |                                     |       |
| NAVS 3011                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Nav Ship Systems II Lab             | 0 cr. |
| <p>A non-graded but mandatory which must be taken concurrently with NAVS 3010.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                     |       |

NAVS 3100	Navigation I & Lab	3 cr.
A comprehensive study designed to introduce the theory and practical applications of marine navigation. Topics include an understanding of the marine environment, terrestrial and celestial navigation theory, navigational equipment, visual navigation aids, nautical charts and publications, and electronic navigation theory.		
NAVS 3101	Navigation I Lab	0 cr.
A non-graded but mandatory laboratory which must be taken concurrently with NAVS 3100.		
NAVS 3110	Naval OPS Analysis & Lab	3 cr.
A comprehensive study of the theory, principles, and procedures of ship navigation, movements, and employment. Topics include: communications; sonar-radar search and screening theory; tactical formations, disposition, and relative motion where maneuvering board and tactical plots are analyzed for force effectiveness and unity; rules of the road, lights, signals, and navigational aids, including inertial and global positioning systems.		
NAVS 3120	Evolution Of Warfare	3 cr.
This course traces the development of warfare from the dawn of recorded history to present, focusing on the impact of major military theorists, strategists, tacticians, and technological developments. Students acquire a basic sense of strategy, develop an understanding of military alternatives, and see the impact of historical precedence on military thought and actions. This course concludes with a review of the various modern warfare concepts and principles outlined in the National Command Authorities Joint Vision 2010, and briefly explores the future of armed conflict.		
NAVS 3130	Amphibious Warfare & Lab	3 cr.
This course surveys the historical development of amphibious doctrine and the conduct of amphibious operations. Emphasis is placed on the evolution of amphibious warfare in the 20th century, especially during World War II. This course explores present day capabilities, limitations, and the force structure of current amphibious forces, and establishes a foundation for understanding the future of littoral warfare.		
NAVS 3200	Leadership and Ethics & Lab	3 cr.
Completes final preparations of NROTC ensigns/2nd Lieutenants for their first fleet assignments as division officers or platoon commanders. Topics of discussion include: military leadership, values/professional ethics; the Uniform Code of Military Justice and Navy regulations emphasizing Navy/ Marine Corps junior officer's typical application of law; and separate discussions of Navy and Marine Corps personnel policies and practices relating to the roles of enlisted members, junior and senior officers, personnel counseling, evaluation, advancement, career planning, personal finances, drug and alcohol abuse, fraternization and sexual harassment, and reporting aboard to their first command.		
NAVS 3201	Leader & Ethics Lab	0 cr.
A non-graded but mandatory laboratory which must be taken with NAVS 3200.		



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## Organizational Leadership

ORGL 3000 Introduction to Organizational Leadership Principles and Concepts 3 cr.

An overview of the principles, theories, models, and styles of organizational leadership. Analysis and assessment of personal leadership style, strengths and weaknesses.

ORGL 3110 Professional Writing 3 cr.

Students will follow a sequence beginning with an introduction to the writing process, emphasizing planning and collaboration, and tools of persuasive written and visual rhetoric. They will produce and critique documents ranging from memos to reports, and will end with a study of professionalism highlighting diversity, usability, ethics and legal issues in professional writing.

ORGL 3140 Diversity and Intercultural Understanding in a Global Context 3 cr.

This course is a general overview of the importance of diversity and cross-cultural communication in today's globalized world. This course is interdisciplinary in character, drawing from the fields of cross-cultural communication, political science and comparative politics, economics, and sociology. Students will become familiar with basic concepts in both cross-cultural communication and globalization. Students will also learn about cultures other than the US, including the cultures of Mexico, India, China, Nigeria, and Germany. Finally, students will demonstrate ability to critically analyze patterns of cross-cultural misunderstanding, so as to better interact with people from these and other cultures.

ORGL 3170 Concepts and Technologies of Organizational Communication 3 cr.

This course will explore the role that human communication, both oral and written, plays in structuring, maintaining, and changing organizational behavior. Students will examine the role that the social media, ethics, diversity, leadership, conflict resolution, and problem-solving can have on business and corporate outcomes.

ORGL 3210 Principles of Team Leadership in Project Management 3 cr.

This course is designed to provide students with the fundamental concepts of the principles of team leadership in project management. Students completing this course will understand the roles of project managers in their organizations and will master project management tools, techniques, and interpersonal skills that are required in order to orchestrate projects from start to finish.

ORGL 3240 Quantitative and Qualitative Analysis 3 cr.

Students will select and utilize appropriate methodologies for analysis of organizational metrics, and understand quantitative and qualitative applications. The purpose of this course is to enable the student to apply these concepts to the "real world" through modeling and interpretations.

ORGL 3270 Laws and Ethics Applied to Organizations 3 cr.

The course offers students an understanding of core legal principles and applications of relevant employment and organizational law and ethics.

ORGL 3340      Critical Thinking and Analytics      3 cr.

This course is designed to teach students more effective reasoning strategies and to improve cognitive skills. Its ambition is to develop those intellectual skills that are essential for understanding organizational data and effectively using data in making decisions.

ORGL 3350      Issues in Organizational Effectiveness      3 cr.

A survey of the impact of internal and external constraints on decision making and organizational effectiveness.

ORGL 3370      Strategic Planning Within Organizational Cultures      3 cr.

The course blends the tenets of strategic planning with qualitative research methods to construct planning proposals that utilize key stakeholders from different organizational cultures to enhance strategic planning outcomes.



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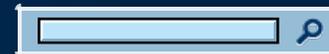
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## Philosophy

PHIL 1000	Introduction to Philosophy	3 cr.
An introductory study of basic philosophical concepts and problems.		
PHIL 1050	Reasoning	3 cr.
A study of the methods of understanding, analyzing, and criticizing arguments. The emphasis will be on increasing one's practical skills as a critical thinker. The arguments will be of the sort encountered in day-to-day life, e.g, those found in advertisements, newspaper editorials, and political campaigns.		
PHIL 1101	Introduction to Logic	3 cr.
An introduction to the study of the methods and principles used to distinguish good reasoning from bad reasoning. Following the study of informal logic, the focus will shift to formal deductive reasoning, including sentential logic.		
PHIL 1200	Social Ethics	3 cr.
A study of representative issues of contemporary social concern, such as capital punishment, civil disobedience, abortion, violence, racial and sexual discrimination. Emphasis will be on clarifying the ethical and other philosophical assumptions underlying the issues and on careful analysis of arguments.		
PHIL 2096	Independent Work	1 min. cr. - 3 max. cr.
Prerequisite: consent of department. Topic and requirements will vary. May be taken multiple times for a maximum of 6 credit hours.		
PHIL 2201	Ethics	3 cr.
A study of concepts of right and wrong, good and evil, and their grounds.		
PHIL 2207	Philosophy of Law	3 cr.
A critical examination, at an introductory level, of questions concerning the nature and foundations of law, the relation of law and morality and law and society, and of key concepts such as responsibility and punishment.		
PHIL 2215	Social and Political Philosophy	3 cr.
An introduction to theories and problems concerning the nature and justification, if any, of society, authority, and the state.		
PHIL 2222	Philosophy of Sex and Love	3 cr.
An investigation of the nature of sex and the nature of love, and of the conceptual relationship between them. The course draws on both classical and contemporary philosophy, and addresses social and ethical issues about		

sexual behavior and love.

PHIL 2244	Engineering Ethics	1
	cr.	
	This course will examine ethical issues arising in the professional and social-policy aspects of engineering. Coverage includes such topics as: codes of professional ethics, methods of moral problem solving, honesty, risk, responsibilities to employers and to the public, technology and the environment, and moral issues in management, research, and consulting.	
PHIL 2311	History of Ancient and Medieval Philosophy	3 cr.
	A survey of philosophy from the early Greeks through the middle ages including such philosophers as the Pre-Socratics, Socrates, Plato, Aristotle, Augustine, and Thomas Aquinas.	
PHIL 2312	History of Modern Philosophy	3
	cr.	
	A survey of philosophy since the beginning of the 17th century, including such philosophers as Descartes, Spinoza, Leibniz, Locke, Berkeley, Hume, Kant, and Hegel.	
PHIL 2314	American Philosophy	3
	cr.	
	Readings in American philosophy and its sources, including such thinkers as Edwards, Jefferson, Emerson, Peirce, James, Royce, Dewey, Santayana, and Whitehead.	
PHIL 2411	Philosophy of Language	3 cr.
	A critical survey and analysis of philosophical theories of meaning, reference, analyticity, synonymy, truth, and the relation of language to reality.	
PHIL 2450	Philosophy of Mind	3 cr.
	A critical survey and analysis of major problems in the philosophy of mind: personal identity, the existence of other minds, the relationship of mind and body.	
PHIL 2701	Religions of the East	3 cr.
	A systematic analysis of the doctrine and practices of major religions outside the Judaeo-Christian tradition; such as Buddhism, Confucianism, Hinduism, Taoism, and others, including the influence of Islam. Particular attention will be given to the philosophical presuppositions of each religion.	
PHIL 2702	Religions of the West	3 cr.
	A systematic analysis of the doctrine and practice of the "religions of Abraham": Judaism, Christianity, and Islam. Particular attention will be given to the philosophical presuppositions of each religion.	
PHIL 3001	Senior Honors Thesis	3 cr.
	Prerequisite: consent of department and Director of the Honors Program. Must be taken 2 times for a maximum of 6 credit hours in order to graduate with Honors in Philosophy. Directed research leading to the writing of a Senior Honors Thesis. Credit for this course will not be counted toward the 30 hours of philosophy courses required for a major in philosophy. Successful completion of this course satisfies the PHIL 3030 requirement.	
PHIL 3030	Individual Senior Seminar	1 cr.
	Prerequisite: Consent of department. Required of all philosophy majors during their senior year. Under the direction of a faculty member, the student prepares a senior qualifying paper which will be evaluated by the department as a whole. Successful completion of this course satisfies the general degree requirement for oral competency.	
PHIL 3094	Directed Readings in Philosophy	3 cr.
	Prerequisites: consent of department. May be taken 2 times for a maximum of 6 credit hours.	
PHIL 3095	Special Topics in Philosophy	3 cr.
	May be taken 2 times for a maximum of 6 credit hours. Topic varies.	
PHIL 3101	Advanced Logic	3 cr.
	A study of the semantics of formal languages, including proofs of the consistency and completeness of the propositional and first-order predicate logics. The course may also include discussion of such non-standard logics	

as multi-valued, modal, and deontic.

- PHIL 3232      Medical Ethics      3 cr.  
A critical exploration of basic moral issues in medical practice and research, such as: genetic engineering, abortion, euthanasia, paternalism, truth-telling, confidentiality, informed consent, distribution of resources, and experimentation on human and nonhuman subjects.
- PHIL 3260      Philosophy and Film      3 cr.  
This course is a critical study of the relation between philosophical concepts and the medium of film, which examines the unique manner in which film conveys concepts arguably too intricate for more traditional media. Through a survey of films whose content illustrate philosophical ideas, as well as a variety of philosophical sources, students learn about the palpable ways in which film can “bring to life” philosophical concepts like no other medium (as well as about how potential filmmakers might utilize philosophical ideas in the production of their own work).
- PHIL 3301      The Philosophy of Plato      3 cr.  
A close reading of the most famous and influential dialogues of the fourth-century B.C. Athenian Plato, the first great systematic thinker of Western philosophy and the creator of some of the basic concepts of Western culture.
- PHIL 3302      The Philosophy of Aristotle      3 cr.  
Aristotle's ideas are examined through careful analysis of his main works with emphasis on his criticisms of the basic theories of his teacher, Plato, and Aristotle's influence on subsequent Western philosophy, literature, and science.
- PHIL 3331      Continental Rationalism and the 17th Century      3 cr.  
Readings in Seventeenth Century thinkers such as Descartes, Spinoza, and Leibniz, whose speculations about the structure of existence helped form the theoretical framework of modern science. Their fundamental ideas about the nature and limits of human knowledge will be examined.
- PHIL 3332      British Empiricism and the 18th Century      3 cr.  
A study of the doctrines and arguments of Locke, Berkeley, and Hume who exerted a formative influence on the development of philosophy, science, politics, and literature.
- PHIL 3333      The Philosophy of Kant      3 cr.  
A study of the main doctrines and arguments of Immanuel Kant, 18th Century philosopher who revolutionized ethics, aesthetics, metaphysics, and epistemology.
- PHIL 3334      German Idealism and the 19th Century      3 cr.  
A study of the most important ideas in continental philosophical speculation during the generations immediately after Kant; major figures include Hegel and his contemporaries, such as Fichte, Schelling, and Schopenhauer, whose metaphysical theories exerted considerable influence on the Romantic movement and on Marxism and other forms of socialism.
- PHIL 3350      Darwin and the Evolution of Thought      3 cr.  
A critical study of the work of Charles Darwin and the philosophical importance of the theory of natural selection. This course examines both the historical influences on Darwin's thinking as well as the effects evolutionary theory has on our present understanding of human behavior and cognition. Its primary focus is on the implications Darwinian thinking has for traditional philosophical domains of philosophy (such as metaphysics, epistemology, philosophy of language and philosophy of mind), as well as for such common issues as sex, politics, religion, and art.
- PHIL 3400      Metaphysics      3 cr.  
An examination of fundamental issues and problems in metaphysics, such as the nature of reality, universals, personal identity, persistence through change, space, and time.
- PHIL 3401      Theories of Knowledge      3 cr.  
A philosophical investigation of the meaning, varieties, limits, and grounds of human knowledge.
- PHIL 3415      Phenomenology and Continental Philosophy      3 cr.  
An introduction to the doctrines, methods, and themes of phenomenology in the context of twentieth century continental philosophy, with attention to the growing impact of phenomenology on American philosophers, social

scientists, and literary critics. This course will involve a careful study of the work of important figures in the phenomenological movement such as Husserl, Heidegger, Sartre, Merleau-Ponty, Schutz, and others.

PHIL 3422	Analytic Philosophy	3 cr.
An examination of the methods and doctrines of the leading approach to philosophy in the twentieth century in the English-speaking world. Such thinkers as Wittgenstein, Russell, Moore, Carnap, Austin, and Quine will be discussed.		
PHIL 3431	Philosophy of the Social Sciences	3 cr.
A philosophical examination of theories, laws, explanations, and concepts in contemporary social sciences such as anthropology, psychology, sociology, economics, and psychoanalysis.		
PHIL 3450	Philosophical Psychology	3 cr.
A critical inquiry into the philosophical aspects of concepts such as intentionality, thought, consciousness, motivation, emotion, and action.		
PHIL 3480	Philosophy of Religion	3 cr.
A systematic study of such issues as implications of religious experience, attempted proof of the existence (or nonexistence) of God (or gods), the problem of divine foreknowledge, and the problem of evil.		
PHIL 3500	The Philosophy of Wittgenstein	3 cr.
A close and critical examination of the works of Ludwig Wittgenstein, widely regarded as the most important philosopher of the 20th Century.		
PHIL 3511	Existentialism	3 cr.
A careful examination of the views of Kierkegaard, Nietzsche, Heidegger, Sartre, and other thinkers associated with one of the 20th Century's most widely influential philosophies.		
PHIL 4027	The Philosophy of Heidegger	3 cr.
This course will examine fundamental issues in the philosophy of Martin Heidegger, the influential 20th century German thinker whose 1927 book, <i>Being and Time</i> , laid the foundation for existentialism, and whose later work helped shape "postmodernist" discourse. The nature of his thought, and the basis of his multifaceted influence on metaphysics, phenomenology, aesthetics, literary theory, religion, social science, and other areas will be examined.		
PHIL 4042	Philosophy of Comedy	3 cr.
An exploration of key modes of comic thought (absurdity, the funny, humor, jokes, laughter, stand-up comedy, and so on) through the analysis of classic and contemporary philosophical theories and the examination of diverse examples.		
PHIL 4200	Health Promotion Ethics	3 cr.
(EDHS 4200 and PHIL 4200 are cross-listed) This course will examine ethical issues arising in the professional and social-policy aspects of health promotion. Coverage includes such topics as: "fact," "value," and "knowledge" regarding health; moral codes in health promotion; concepts of efficiency, fairness, autonomy, and privacy in health contexts; and special moral problems concerning sex, drugs, food, pain, aging, death, health on the job, and generational equality.		
PHIL 4201	Advanced Ethics	3 cr.
A systematic study of major positions, problems, and concepts in ethical theory, as represented in classical and contemporary works.		
PHIL 4205	Environmental Ethics	3 cr.
A philosophical study of theories and problems concerning the moral relationship between human beings and the non-human world, including animals and ecosystems.		
PHIL 4215	Advanced Social and Political Philosophy	3 cr.
A systematic study of major positions, problems, and concepts in social-political theory, as represented in classical and contemporary works.		
PHIL 4250	Philosophy of Art	3 cr.
A critical inquiry into the nature of artistic production, performance, enjoyment, and evaluation. What is the nature		

of art? What feature(s) must "something" possess to be an artwork? Must art capture beauty, represent something, convey or evoke emotion, give pleasure, reveal truth, or transform the mundane? What is the "aesthetic" experience? What constitutes "good" art? These and other questions will be explored through discussion of relevant readings and examples.

**PHIL 4430**                      **Philosophy of the Natural Sciences**                      **3 cr.**  
 An examination in detail of the outstanding problems, positions, and achievements within contemporary philosophy of science. Attention will be given to issues arising from both the physical and the biological sciences.

**PHIL 5027**                      **The Philosophy of Heidegger**                      **3 cr.**  
 This course will examine fundamental issues in the philosophy of Martin Heidegger, the influential 20th century German thinker whose 1927 book, *Being and Time*, laid the foundation for existentialism, and whose later work helped shape "postmodernist" discourse. The nature of his thought, and the basis of his multifaceted influence on metaphysics, phenomenology, aesthetics, literary theory, religion, social science, and other areas will be examined.

**PHIL 5042**                      **Philosophy of Comedy**                      **3 cr.**  
 An exploration of key modes of comic thought (absurdity, the funny, humor, jokes, laughter, stand-up comedy, and so on) through the analysis of classic and contemporary philosophical theories and the examination of diverse examples.

**PHIL 5200**                      **Health Promotion Ethics**                      **3 cr.**  
 (EDHS 4200 and PHIL 4200 are cross-listed) This course will examine ethical issues arising in the professional and social-policy aspects of health promotion. Coverage includes such topics as: "fact," "value," and "knowledge" regarding health; moral codes in health promotion; concepts of efficiency, fairness, autonomy, and privacy in health contexts; and special moral problems concerning sex, drugs, food, pain, aging, death, health on the job, and generational equality.

**PHIL 5205**                      **Environmental Ethics**                      **3 cr.**  
 A philosophical study of theories and problems concerning the moral relationship between human beings and the non-human world, including animals and ecosystems.



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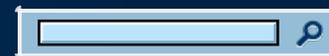
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## Physics

General prerequisites: to register in any physics course a student must be eligible to enroll in Mathematics 1115 or 1125 or have earned credit in any college-level mathematics course.

PHYS 1001 Introduction to Physics 3  
cr.

Introductory physics courses for non-science majors. PHYS 1001 and 1002 may be taken without regard to order. Force, motion, properties of matter and heat. Does not constitute degree credit for any major in the College of Sciences.

PHYS 1002 Introduction to Physics II 3  
cr.

Introductory physics courses for non-science majors. PHYS 1001 and 1002 may be taken without regard to order. Sound, electricity, magnetism, light, nuclear physics and relativity. Does not constitute degree credit for any major in the College of Sciences.

PHYS 1003 Introductory Physics Laboratory I 1  
cr.

Laboratory to accompany PHYS 1001. Prerequisite: credit or concurrent enrollment in PHYS 1001.

PHYS 1004 Introductory Physics Laboratory II  
1 cr.

Laboratory to accompany PHYS1002. Prerequisite: credit or concurrent enrollment in PHYS 1002.

PHYS 1005 Introductory Astronomy I  
3 cr.

Introductory course in astronomy. Naked-eye astronomy, the history and development of astronomy, and the comparative planetology of the solar system. PHYS 1005 and 1006 may be taken without regard to order.

PHYS 1006 Introductory Astronomy II 3  
cr.

Introductory course in astronomy. Introduction to the astronomy of the Sun and stars, galaxies and cosmology. PHYS 1005 and 1006 may be taken without regard to order.

PHYS 1007 Introductory Astronomy Laboratory I  
1 cr.

Prerequisite: credit or registration in PHYS 1005. A two-hour night laboratory to accompany PHYS 1005.

PHYS 1008 Introductory Astronomy Laboratory II 1 cr.

Prerequisite: credit or concurrent enrollment in PHYS 1006. A two-hour night time laboratory to accompany PHYS 1006.

PHYS 1010 Physics of Music 3 cr.



PHYS 3191	Special Problems in Physics	1 min. cr. - 3 max. cr.
Offered each semester. Prerequisite: consent of the department. Amount of credit to be stated at registration. Individual reading conferences and/or laboratory work on problem or problems in physics. Section number will correspond with the credit to be earned. A student will be allowed no more than a total of six credits in Special Problems ( PHYS 4191 3191 and 2191) .		
PHYS 3198	Undergraduate Seminar	1 cr.
Offered each semester. A group comprised of representatives of the physics faculty and undergraduate physics majors which meets at regular intervals during the semester to discuss selected topics in physics. Physics majors must formally register and present an approved paper in order to satisfy credit requirements. May be repeated for credit.		
PHYS 3261	Geophysical Field Methods	6 cr.
(PHYS 3261 and EES 4150 are cross-listed) Prerequisites: PHYS 2064 and consent of instructor. Basic introduction to the application of geophysical field techniques. Includes collecting, processing, and interpreting gravity, magnetic, and seismic data. Practical experience in the conduct of geophysical surveys, operation of equipment, data reduction, and simple interpretation. Preparation of geophysical reports in the style normally used for published papers. Thirty-five hours of classroom work and field measurements per week during the summer session.		
PHYS 3301	Intermediate Mechanics	3 cr.
Prerequisites: PHYS 1062 and MATH 2115 or MATH 2134. Application of the fundamental laws of mechanics to particles and rigid bodies.		
PHYS 4004	Contemporary Physics	3 cr.
Prerequisite: PHYS 1032. A survey of contemporary topics which may include nuclear power, solar energy, Einstein's relativity and cosmology, energy and matter in the quantum picture. (Physics majors can not use this course as a physics elective.)		
PHYS 4010	Physics of Music 2: Acoustics, Music, and Electronics	3 cr.
Prerequisites: PHYS 1010 or PHYS 1032 or PHYS 1062. Senior/graduate-level course for musicians, scientists, and engineers interested in sound recording and reproduction, environmental acoustics, and electronic music. Topics include room and auditorium acoustics, environmental noise and noise control, audio recording and reproduction, audio signal processing and electronic music.		
PHYS 4014	Physics of Music 2 Laboratory: Acoustics, Music, and Electronics	1 cr.
Co-Prerequisites: Credit or concurrent enrollment in PHYS 4010. A two-hour laboratory to accompany PHYS 4010, with experiments to illustrate and investigate topics from the lecture course.		
PHYS 4091	Special Topics in Physics and Physical Science for Teachers	1 min. cr. - 6 max. cr.
Prerequisite: consent of department. The content and format of this course may be varied from semester to semester. The topics covered will generally relate to background material (rather than methodology) which is in the areas of physics or physical science and of particular interest to precollege teachers. Amount of credit to be stated at time of registration; may be repeated for no more than a total of six hours credit. This course may not be used for degree credit by students in the College of Sciences except those enrolled in the M.A. in science teaching program.		
PHYS 4160	Advanced Laboratory	3 cr.
Prerequisite: Consent of department. Four hours of laboratory and one hour of lecture each week. Selected experiments in several branches of physics with special emphasis on the control of selected experiments by microprocessors. Fundamentals of AC and DC circuits.		
PHYS 4191	Special Problems in Physics	1 min. cr. - 3 max. cr.
Prerequisite: Consent of department. Directed study in topic areas selected by the student in consultation with faculty. The course will include advanced topics in physics or applied physics. May require laboratory research,		



concepts, derivations, and solutions of acoustic wave equations in bounded and unbounded fluids and solids. Reflection, refraction, and transmission; radiation characteristics of vibrating bodies. Acoustic wave guide theory, geometrical acoustics, and ray theory. Selected topics as time permits.

- PHYS 4381 Applied Seismic Data Acquisition and Processing 3 cr.  
(PHYS 4381 and EES 4152 are cross-listed) Prerequisites: PHYS 4205, EES 4110 and MATH 2221. Basic acoustics and ray tracing; seismic data acquisition; CDP; noise analyses and arrays; physics of acoustic sources, measuring and recording instruments; demultiplexing; NMO and velocity analysis; statics; and introduction to deconvolution, filtering, and migration. Use of fundamental seismic data processing computer programs, graphics, and displays of seismic data; seismic data processing of field data. Two hours of lecture and two hours of computer laboratory per week.
- PHYS 4401 Introduction to Quantum Mechanics 3 cr.  
Prerequisites: PHYS 2064 and credit or concurrent enrollment in MATH 2221. An introduction to the basic concepts in quantum mechanics.
- PHYS 4402 Quantum Physics of Atoms, Solids, and Nuclei 3 cr.  
Prerequisites: PHYS 4401. Quantum theory of the electronic structure of atoms, diatomic molecules, solids, and nuclei. Topics include perturbation theory applied to multi-electron atoms, L-S coupling, molecular orbitals, band theory of solids, and shell model of nuclei.
- PHYS 4501 Electricity and Magnetism 3 cr.  
Prerequisites: PHYS 1062 and MATH 2115 or MATH 2134. Fundamentals of electricity and magnetism.
- PHYS 4503 Electricity and Magnetism 3 cr.  
Prerequisite: PHYS 4501. Time-dependent electric and magnetic fields. Solutions of Maxwell's equations and electromagnetic radiation.
- PHYS 4507 Gravity and Magnetics 3 cr.  
(EES 4120 and PHYS 4507 are cross-listed) Prerequisites: EES 4110, PHYS 3301 or PHYS 4501 and MATH 2221. Fundamentals of scalar potentials and analysis of vector fields as applied to geophysical problems in gravity and magnetism. Analytic properties of the earth's gravitational and magnetic fields in space and time. Modeling and interpretation of gravity and magnetic anomalies.
- PHYS 4521 Modern Optics 3 cr.  
Prerequisites: PHYS 2064 and MATH 2115. The fundamental physical principles of optics and optical instruments, and topics selected from lasers, optical waveguides and thin films, and properties of optical materials.
- PHYS 4601 Thermodynamics & Statistical Mechanics 3 cr.  
Prerequisites: PHYS 2064 and either MATH 2115 or MATH 2134. A study of theory and experiments in the fields of thermodynamics and statistical mechanics.
- PHYS 4801 Nuclear and Reactor Physics 3 cr.  
Prerequisites: PHYS 2064. A survey of nuclear forces and models, radioactivity, nuclear reactions, apparatus for detection of particles and radiation of nuclear origin (scintillation counters, solid-state detectors, coincidence electronics, etc.), fission and fusion reactors, heat exchangers, radiation damage, reactor shielding, nuclear fuel fabrication and reprocessing, options for disposal of nuclear wastes.
- PHYS 4901 Condensed Matter and Materials Physics 3 cr.  
Prerequisite: PHYS 2064 and either MATH 2115 or MATH 2134. Properties of the crystalline state. Free electron and band theories of metals, insulators, and semiconductors. Magnetism, superconductivity, and superfluidity.
- PHYS 5004 Contemporary Physics 3 cr.  
Prerequisite: PHYS 1032. A survey of contemporary topics which may include nuclear power, solar energy, Einstein's relativity and cosmology, energy and matter in the quantum picture. (Physics majors can not use this course as a physics elective.)
- PHYS 5010 Physics of Music 2: Acoustics, Music, and Electronics 3 cr.  
Prerequisites: PHYS 1010 or PHYS 1032 or PHYS 1062. Senior/graduate-level course for musicians, scientists,

and engineers interested in sound recording and reproduction, environmental acoustics, and electronic music. Topics include room and auditorium acoustics, environmental noise and noise control, audio recording and reproduction, audio signal processing and electronic music.

PHYS 5014            Physics of Music 2 Laboratory: Acoustics, Music, and Electronics            1 cr.

Co-Prerequisites: Credit or concurrent enrollment in PHYS 4010. A two-hour laboratory to accompany PHYS 4010, with experiments to illustrate and investigate topics from the lecture course.

PHYS 5091            Special Topics in Physics and Physical Science for Teachers 1 min. cr. - 6 max. cr.

Prerequisite: consent of department. The content and format of this course may be varied from semester to semester. The topics covered will generally relate to background material (rather than methodology) which is in the areas of physics or physical science and of particular interest to precollege teachers. Amount of credit to be stated at time of registration; may be repeated for no more than a total of six hours credit. This course may not be used for degree credit by students in the College of Sciences except those enrolled in the M.A. in science teaching program.

PHYS 5160            Advanced Laboratory            3 cr.

Prerequisite: Consent of department. Four hours of laboratory and one hour of lecture each week. Selected experiments in several branches of physics with special emphasis on the control of selected experiments by microprocessors. Fundamentals of AC and DC circuits.

PHYS 5191            Special Problems in Physics            1 min. cr. - 3 max. cr.

Prerequisite: Consent of department. Directed study in topic areas selected by the student in consultation with faculty. The course will include advanced topics in physics or applied physics. May require laboratory research, theory, or computation. A maximum of six credits can be used toward degree requirements.

PHYS 5195            Special Topics in Physics - Classical Physics            1 min. cr. - 3 max. cr.

Prerequisite: consent of department. The content of this course will be varied from semester to semester. May be taken multiple times for credit. A maximum of six semester hours credit in PHYS 4195, PHYS 4196, PHYS 4197 and PHYS 4198 will be allowed toward a B.S. degree.

PHYS 5196            Special Topics in Physics - Modern Physics            1 min. cr. - 3 max. cr.

Prerequisite: consent of department. The content of this course will be varied from semester to semester. May be taken multiple times for credit. A maximum of six semester hours credit in PHYS 4195, PHYS 4196, PHYS 4197 and PHYS 4198 will be allowed toward a B.S. degree.

PHYS 5197            Special Topics in Physics - Current topics            1 min. cr. - 3 max. cr.

Prerequisite: consent of department. The content of this course will be varied from semester to semester. May be taken multiple times for credit. A maximum of six semester hours credit in PHYS 4195, PHYS 4196, PHYS 4197 and PHYS 4198 will be allowed toward a B.S. degree.

PHYS 5198            Special Topics in Physics - Geophysics            1 min. cr. - 3 max. cr.

Prerequisite: consent of department. The content of this course will be varied from semester to semester. May be taken multiple times for credit. A maximum of six semester hours credit in PHYS 4195, PHYS 4196, PHYS 4197 and PHYS 4198 will be allowed toward a B.S. degree.

PHYS 5201            Introduction to Mathematical Physics I            3 cr.

Prerequisite: PHYS 1062 and MATH 2115 or MATH 2134. An introduction to the mathematical treatment of selected physical problems. Power series, complex numbers, vector analysis, linear algebra, ordinary differential equations and Fourier transforms.

PHYS 5202            Introduction to Mathematical Physics            3 cr.

Prerequisite: PHYS 4201. Advanced mathematical treatment of selected physical problems. Partial differential equations, calculus of variations, tensor analysis, special functions and complex analysis.

PHYS 5205            Physical Applications of the Fourier Transform            3 cr.

Prerequisites: PHYS 1062 and either MATH 2115 or MATH 2134. Physical applications of the Fourier transform and series, convolution, and basic theorems; sampling and data treatment; and introduction to Fourier methods in geophysics and optics.

PHYS 5211 Introduction to Computational Physics 3 cr.

Prerequisites: PHYS 4501 and CSCI 1203, CSCI 1205 or CSCI 1581. An introduction to the computational treatment of physics problems in areas such as electromagnetic phenomena, acoustic wave propagation, scattering, atomic structure, and astrophysics.

PHYS 5302 Advanced Mechanics 3 cr.

Prerequisite: PHYS 3301. Special relativity; variational techniques; Lagrangian and Hamiltonian formulations of classical mechanics.

PHYS 5322 Introduction to Acoustics 3 cr.

Prerequisites: PHYS 2064 and MATH 2221. Fundamental principles of acoustics, emphasizing the physical concepts, derivations, and solutions of acoustic wave equations in bounded and unbounded fluids and solids. Reflection, refraction, and transmission; radiation characteristics of vibrating bodies. Acoustic wave guide theory, geometrical acoustics, and ray theory. Selected topics as time permits.

PHYS 5381 Applied Seismic Data Acquisition and Processing 3 cr.

(PHYS 4381 and EES 4152 are cross-listed) Prerequisites: PHYS 4205, EES 4110 and MATH 2221. Basic acoustics and ray tracing; seismic data acquisition; CDP; noise analyses and arrays; physics of acoustic sources, measuring and recording instruments; demultiplexing; NMO and velocity analysis; statics; and introduction to deconvolution, filtering, and migration. Use of fundamental seismic data processing computer programs, graphics, and displays of seismic data; seismic data processing of field data. Two hours of lecture and two hours of computer laboratory per week.

PHYS 5401 Introduction to Quantum Mechanics 3 cr.

Prerequisites: PHYS 2064 and credit or concurrent enrollment in MATH 2221. An introduction to the basic concepts in quantum mechanics.

PHYS 5402 Quantum Physics of Atoms, Solids, and Nuclei 3 cr.

Prerequisites: PHYS 4401. Quantum theory of the electronic structure of atoms, diatomic molecules, solids, and nuclei. Topics include perturbation theory applied to multi-electron atoms, L-S coupling, molecular orbitals, band theory of solids, and shell model of nuclei.

PHYS 5501 Electricity and Magnetism 3 cr.

Prerequisites: PHYS 1062 and MATH 2115 or MATH 2134. Fundamentals of electricity and magnetism.

PHYS 5503 Electricity and Magnetism 3 cr.

Prerequisite: PHYS 4501. Time-dependent electric and magnetic fields. Solutions of Maxwell's equations and electromagnetic radiation.

PHYS 5507 Gravity and Magnetism 3 cr.

(EES 4120 and PHYS 4507 are cross-listed) Prerequisites: EES 4110, PHYS 3301 or PHYS 4501 and MATH 2221. Fundamentals of scalar potentials and analysis of vector fields as applied to geophysical problems in gravity and magnetism. Analytic properties of the earth's gravitational and magnetic fields in space and time. Modeling and interpretation of gravity and magnetic anomalies.

PHYS 5521 Modern Optics 3 cr.

Prerequisites: PHYS 2064 and MATH 2115. The fundamental physical principles of optics and optical instruments, and topics selected from lasers, optical waveguides and thin films, and properties of optical materials.

PHYS 5601 Thermodynamics & Statistical Mechanics 3 cr.

Prerequisites: PHYS 2064 and either MATH 2115 or MATH 2134. A study of theory and experiments in the fields of thermodynamics and statistical mechanics.

PHYS 5801 Nuclear and Reactor Physics 3 cr.

Prerequisites: PHYS 2064. A survey of nuclear forces and models, radioactivity, nuclear reactions, apparatus for detection of particles and radiation of nuclear origin (scintillation counters, solid-state detectors, coincidence

electronics, etc.), fission and fusion reactors, heat exchangers, radiation damage, reactor shielding, nuclear fuel fabrication and reprocessing, options for disposal of nuclear wastes.

PHYS 5901 Condensed Matter and Materials Physics 3 cr.

Prerequisite: PHYS 2064 and either MATH 2115 or MATH 2134. Properties of the crystalline state. Free electron and band theories of metals, insulators, and semiconductors. Magnetism, superconductivity, and superfluidity.

PHYS 6005 Laboratory Techniques in Physics for Teachers I cr.

Prerequisite: PHYS 4004. A course to aid science teachers to deepen their knowledge of fundamental physics by designing and carrying out demonstrations and laboratory techniques for presenting material dealing primarily with mechanics, astronomy, and thermal physics. PHYS 6005 and PHYS 6006 may be taken in any order. Two hours of lecture and two hours of laboratory.

PHYS 6191 Selected Topics in Physics-Mathematical 1 min. cr. - 6 max. cr.

The content of this course will be varied from semester to semester. May be taken multiple times for credit. A maximum of six hours total in PHYS 6191, PHYS 6192, PHYS 6193, PHYS 6194 and PHYS 6195 will be allowed toward an M.S. degree.

PHYS 6192 Selected Topics in Physics-Atomic & Molecular 1 min. cr. - 6 max. cr.

The content of this course will be varied from semester to semester. May be taken multiple times for credit. A maximum of six hours total in PHYS 6191, PHYS 6192, PHYS 6193, PHYS 6194 and PHYS 6195 will be allowed toward an M.S. degree.

PHYS 6193 Selected Topics in Physics-Nuclear & Elementary Particle Physics 1 min. cr. - 6 max. cr.

The content of this course will be varied from semester to semester. May be taken multiple times for credit. A maximum of six hours total in PHYS 6191, PHYS 6192, PHYS 6193, PHYS 6194 and PHYS 6195 will be allowed toward an M.S. degree.

PHYS 6194 Selected Topics in Physics-Solid State 1 min. cr. - 6 max. cr.

The content of this course will be varied from semester to semester. May be taken multiple times for credit. A maximum of six hours total in PHYS 6191, PHYS 6192, PHYS 6193, PHYS 6194 and PHYS 6195 will be allowed toward an M.S. degree.

PHYS 6195 Selected Topics in Physics-Geophysics 1 min. cr. - 6 max. cr.

The content of this course will be varied from semester to semester. May be taken multiple times for credit. A maximum of six hours total in PHYS 6191, PHYS 6192, PHYS 6193, PHYS 6194 and PHYS 6195 will be allowed toward an M.S. degree.

PHYS 6198 Seminar 1 cr.

This course is offered each semester and meets weekly. Students, faculty and invited guest speakers will present and discuss research activities and/or current topics in their field. May be repeated for credit.

PHYS 6205 Digital Filtering and Image Processing 3 cr.

Prerequisite: PHYS 4205. The discrete Fourier transform and the fast Fourier transform in physical applications; noise characteristics and techniques of noise removal; one-dimensional image enhancement and restoration; two-dimensional image processing; and applications to seismic data, pictures, and other physical data.

PHYS 6206 Image Restoration and Enhancement 3 cr.

Prerequisite: PHYS 6205. Restoration and enhancement of one- and two-dimensional physical data by noise removal, deconvolution, and other techniques of digital filtering; the Wiener filter, maximum entropy, and maximum likelihood; iterative techniques; spectral windows; and filters for seismic data and images.

PHYS 6207 Digital Filtering and Spectral Analysis I 3 cr.

Prerequisites: PHYS 6206 and MATH 2511 or PHYS 4201. Brief review of transform and random process theory,











POLI 4700	Latin American Government and Politics	
3 cr.		
An analysis and survey of the governmental and political processes of Latin America and their contributions to modern government.		
POLI 4710	Politics of the Developing Areas	
3 cr.		
An analysis of issues relevant to politics in the developing nations with emphasis on the relationship of politics to rapid economic and social change and evaluation of policies intended to promote development.		
POLI 4770	Modern Political Systems	3 cr.
A comparative analysis of selected institutional and functional problems of both modern democratic and modern authoritarian political systems.		
POLI 4780	Comparative Democratization	
3 cr.		
An exploration of the nature of democracy and the challenges of democratization drawing on experiences with democratization in Southern Europe, Latin America, Eastern Europe, and Africa. Experiences with and prospects for further democratization in other regions also are considered.		
POLI 4790	Media and Politics from a Comparative Perspective	3 cr.
Prerequisites: credit in POLI 2151, 2200, 2600, 2700 or 2900. This class is an introduction to the media and politics from a comparative perspective. We will learn about the media's political role in society; how they act or fail to act as a watchdog for citizens; and how they may influence public opinion and citizen activism in the United States, in other democracies, and in authoritarian countries. We will examine biases in the media, the media's influence on campaigns and elections, and the media's role in wars and revolutions around the world.		
POLI 4800	Concepts and Patterns of International Politics	3 cr.
A systematic study of interaction between nation states, including a survey of the principal theories concerning international society.		
POLI 4820	International Organization	3 cr.
A review of the origins and types of international organizations, both intergovernmental and international non-governmental, and their role in the contemporary international system. The challenges and theoretical implications of issues such as humanitarian aid, peacekeeping, and economic, social, and political development will be discussed.		
POLI 4850	The Politics of International Economic Relations	3 cr.
An introduction to the field of international political economy focusing on four issues: the relationship between politics and markets, postwar developments in relations among advanced industrial societies, the relationship between advanced industrial and developing societies, and the impact of globalization on both developed and developing societies.		
POLI 4860	International Law	3 cr.
The course focuses on the development and foundations of international law; the sources of international law; enforcement; the meaning of treaties; conflicts between domestic and international law; sovereignty; the problems and exercise of jurisdiction; and peace, war, and other methods for resolving international disputes. The course also emphasizes international law both from the perspectives of the U.S. and other nations.		
POLI 4870	American Foreign Policy	3 cr.
A study of the national interest as the guiding consideration in the development of American foreign policy from the beginning to the present. The importance of the constitutional framework, presidential and congressional leadership, pressure groups and public opinion, the changing world environment and the American response to it, particularly in recent years.		

POLI 4885	Issues in Conflict and Diplomacy	3 cr.
An examination of the interaction of conflict with diplomacy. Conflict and diplomacy are studied analytically and operationally in terms of their limitations and possibilities in advancing and/or defending states' interests		
POLI 4990	Special Topics in Political Science	3 cr.
Topic may vary from semester to semester. Students may register for this course more than once to a maximum of nine hours. POLI 3995, 3998, 4990, and 4991 may not be taken, either singly or jointly, for more than a total of 12 credit hours.		
POLI 4991	Senior Honors Thesis	3 cr.
Prerequisites: consent of department and director of the Honors Program. Design and execution of an honors thesis. This course must be repeated once in order to graduate with honors in political science. Political Science courses 3995, 3998, 4990, and 4991 may not be taken either singly or jointly for more than a total of 12 credit hours. Not open to graduate students.		
POLI 4999	Political Science Overview	1 cr.
This is the capstone course, required of graduating political science majors, which provides an overview of the discipline. The course features weekly lectures by political science faculty along with class discussion. It is open to political science majors only, and it is not open to graduate students.		
POLI 5140	Politics & Religion	3 cr.
This course will examine how religion and religious institutions affect political outcomes and vice versa. Emphasis will be placed on understanding and evaluating social-scientific theories regarding the influence of religion on politics.		
POLI 5170	The Politics of Public Policy	3 cr.
An examination of the American public policy process and policy theory, covering the major concepts, controversies, and states of policy making as well as policy content.		
POLI 5310	U.S. State Politics	3 cr.
This course is designed to familiarize students with the roles and responsibilities of state governments and provide insight into the complex dynamics of state politics through a comparative approach.		
POLI 5410	American Constitutional Law	3 cr.
Prerequisite: POLI 2200 or consent of department. A study of the law of the Constitution and the place of the Supreme Court in the American political system; critical examination of separation of powers, judicial review, federalism and federal powers.		
POLI 5420	The American Constitution and Civil Liberties	3 cr.
Prerequisite: POLI 2200 or consent of department. An examination of the political relevance of major federal constitutional limitations, property rights, First Amendment freedoms, the rights of criminal defendants and ethnic minorities.		
POLI 5440	Urban Judicial Process	3 cr.
Prerequisite: POLI 2200 or consent of department. A study of judicial processes involved in metropolitan development and in the application of environmental controls to urban areas.		
POLI 5600	Political Parties & Politics	3 cr.
This course focuses on the role and behavior of political parties, a key institution in U.S. politics and in other democracies. It examines how parties have changed, and what these changes imply for the operation of U.S. politics. Emphasis is placed on the normative debate over the desirability of political parties and the role they play in democracies.		
POLI 5601	Voters and Elections	3 cr.
This course examines electoral behavior in the U.S. Topics include the role that partisanship, issues, economic		

conditions, and candidate image play in voter turnout and vote choice, and how money and media influence elections. It also explores why citizens are disengaging from the electoral process.

POLI 5610 U.S. Interest Group Politics 3 cr.

This course examines the role of interest groups in U.S. politics and government. It covers both the theories and empirical research of group formation, maintenance, lobbying, and electioneering.

POLI 5621 Public Opinion 3 cr.

This course introduces the student to the contemporary study of public opinion, with an emphasis on the measurement, formation and expression of public opinion, where the public stands on major issues, and whether political leaders pay attention to or manipulate public opinion.

POLI 5630 The U.S. Presidency 3

cr.

This course covers presidential elections, presidential power, and presidential relations with the people of the U.S. and with the rest of the world.

POLI 5640 U.S. Congress and the American People 3 cr.

What are the sources of partisan gridlock, corruption, and special interest influence in Congress? What can we do to make it more representative of the American people?

POLI 5650 Southern Politics 3 cr.

This course focuses on politics in the South, especially since the mid-twentieth century, emphasizing the following themes: race and politics; the impact of the civil rights movement; the evolution of party competition; and the influence of industrialization and urbanization.

POLI 5653 Political Socialization 3 cr.

This course investigates how individuals acquire political attitudes, beliefs, identities, and behaviors, with an overview of the processes and agents of political socialization. A variety of socialization factors will be explored, including education, SES, family, peers, and religion, along with the role of media and technology in the political socialization process.

POLI 5670 Women and Politics 3 cr.

A study of feminist political thought, and of women's political movements, political issues, and political behavior and attitudes in the United States and in other countries.

POLI 5700 Latin American Government and Politics 3 cr.

An analysis and survey of the governmental and political processes of Latin America and their contributions to modern government.

POLI 5710 Politics of the Developing Areas 3 cr.

An analysis of issues relevant to politics in the developing nations with emphasis on the relationship of politics to rapid economic and social change and evaluation of policies intended to promote development.

POLI 5770 Modern Political Systems 3 cr.

A comparative analysis of selected institutional and functional problems of both modern democratic and modern authoritarian political systems.

POLI 5780 Comparative Democratization 3 cr.

An exploration of the nature of democracy and the challenges of democratization drawing on experiences with democratization in Southern Europe, Latin America, Eastern Europe, and Africa. Experiences with and prospects for further democratization in other regions also are considered.

POLI 5800 Concepts and Patterns of International Politics 3

cr.

A systematic study of interaction between nation states, including a survey of the principal theories concerning international society.

POLI 5820 International Organization

3 cr.

A review of the origins and types of international organizations, both intergovernmental and international non-

governmental, and their role in the contemporary international system. The challenges and theoretical implications of issues such as humanitarian aid, peacekeeping, and economic, social, and political development will be discussed.

POLI 5850            The Politics of International Economic Relations            3  
cr.

An introduction to the field of international political economy focusing on four issues: the relationship between politics and markets, postwar developments in relations among advanced industrial societies, the relationship between advanced industrial and developing societies, and the impact of globalization on both developed and developing societies.

POLI 5860            International Law            3  
cr.

The course focuses on the development and foundations of international law; the sources of international law; enforcement; the meaning of treaties; conflicts between domestic and international law; sovereignty; the problems and exercise of jurisdiction; and peace, war, and other methods for resolving international disputes. The course also emphasizes international law both from the perspectives of the U.S. and other nations.

POLI 5870            American Foreign Policy            3 cr.

A study of the national interest as the guiding consideration in the development of American foreign policy from the beginning to the present. The importance of the constitutional framework, presidential and congressional leadership, pressure groups and public opinion, the changing world environment and the American response to it, particularly in recent years.

POLI 5885            Issues in Conflict and Diplomacy            3  
cr.

An examination of the interaction of conflict with diplomacy. Conflict and diplomacy are studied analytically and operationally in terms of their limitations and possibilities in advancing and/or defending states' interests

POLI 5970            Media and Politics from a Comparative Perspective            3 cr.

Prerequisites: credit in POLI 2151, 2200, 2600, 2700 or 2900. This class is an introduction to the media and politics from a comparative perspective. We will learn about the media's political role in society; how they act or fail to act as a watchdog for citizens; and how they may influence public opinion and citizen activism in the United States, in other democracies, and in authoritarian countries. We will examine biases in the media, the media's influence on campaigns and elections, and the media's role in wars and revolutions around the world.

POLI 5990            Special Topics in Political Science            3  
cr.

Topic may vary from semester to semester. Students may register for this course more than once to a maximum of nine hours. POLI 3995, 3998, 4990, and 4991 may not be taken, either singly or jointly, for more than a total of 12 credit hours.

POLI 6001            Introduction to Political Research            3  
cr.

Introduction to the philosophy of science and research design. (Required of all graduate students.)

POLI 6002            Methods of Political Research I            3  
cr.

Techniques of data analysis with an emphasis on the general linear model and an introduction to maximum likelihood estimation. (Required for all graduate students.)

POLI 6003            Methods of Political Research II            3 cr.

Prerequisites: POLI 6001 and POLI 6002. Techniques of data analysis with an emphasis on maximum likelihood estimation and time series. (Required of Ph.D. students.)

POLI 6100            Theories of Public Policy            3 cr.

An examination of a variety of models of the public policy making process from agenda-setting through evaluation and feedback, with particular attention to explanations of policy stability and policy dynamics. Examined theories include rational choice, incrementalism, neo-institutionalism and path dependency, multiple streams, punctuated

equilibrium, advocacy coalition framework, and political strategy, among others.

POLI 6210 Seminar on Urban Political Systems 3 cr.

A review of the literature dealing with urban political processes. Topics will include metropolitan fragmentation and integration, intra-jurisdictional structural characteristics, urban policy makers, structures of community power, and the city within the federal system.

POLI 6245 Seminar in American Foreign Policy and National Security Affairs 3 cr.

This seminar will explore the theoretical concepts relating to the process of policy-making, the interface between domestic, foreign, and national security policies and politics, the role of bureaucratic politics and the thrust and content of American foreign and security policies.

POLI 6310 Seminar in State and Local Government 3 cr.

A seminar in state and local government with special emphasis on comparative state politics and political systems.

POLI 6420 Seminar on Appellate Courts 3 cr.

This seminar is designed to familiarize students with the literature on appellate courts (including the US Supreme Court, the US Court of Appeals, the state courts of last resort, and the Constitutional Courts of other countries). It will cover decision-making, judicial selection, the effects of public opinion on courts and the effect of courts on public opinion, impact and compliance, and interest-group influence. The courts will be studied as political institutions and policymakers peopled by political actors as opposed to the common view that they are formal, legal, and nonpolitical entities.

POLI 6430 Seminar on Trial Courts 3 cr.

A seminar dealing with the literature on the scientific study of lower courts and criminal justice.

POLI 6600 Seminar in American Politics 3 cr.

POLI 6610 Seminar in Political Parties 3 cr.

POLI 6620 Seminar in Voting Behavior and Participation 3 cr.

An analysis of contemporary research on vote determinants, partisanship, issues and elections, economic influences, voter turnout, and political participation.

POLI 6625 Seminar in Public Opinion 3 cr.

An analysis of contemporary research on individual and contextual sources of public opinion.

POLI 6641 Research on Minority Politics 3 cr.

A research-oriented seminar in minority politics. Inferential techniques employed in the analysis of minority politics will be examined, and students will be required to engage in original research endeavors.

POLI 6650 Seminar in Women and Politics 3 cr.

A study of feminist political thought and research on the importance of gender in social movements, political attitudes and behavior, political leadership, and public policy.

POLI 6680 Seminar in Legislative Behavior 3 cr.

This course will seek to provide an overview of contemporary research on legislative behavior. Most of the existing literature focuses on the national Congress but the course will also be concerned with state legislatures as well. The seminar will include an extensive review of the literature and statistical analysis of legislative roll call

voting.

POLI 6700 Seminar in Comparative Politics

3 cr.

POLI 6720 Seminar in Developed Political Systems

3

cr.

Criteria of development, structural-functional approach to analysis of developed political systems, communications models, interest articulation and aggregation, institutional frameworks.

POLI 6730 Seminar in Political Change and  
Development

3 cr.

Theories of development; relationship between political and economic development, the revolution of rising expectations, political infrastructure, levels of development.

POLI 6740 Seminar in Latin American Politics

3 cr.

The major alternatives for change: democratic reform or violent revolution; political infrastructure, interest aggregation and the acceleration of demands; the changing role of the military; the rise of urban terrorism; political heritage; personalism; dictatorship; role of the church.

POLI 6790 Seminar in Comparative Media and Politics

3 cr.

This class surveys the literature on media and politics from a comparative perspective. It examines the factors that affect the professionalism and openness of the media across political regimes and also explores the role of the media in affecting public opinion, political behavior, and policy outcomes.

POLI 6810 Seminar in International Relations  
Theory

3 cr.

This course will provide an overview of contemporary research on international relations. It is organized around points of common interest to scholars of international relations, including such concepts as the underlying nature of the international system, the causes of conflict between states, and possible sources of cooperation between states.

POLI 6850 Politics of International Economics  
Relations

3 cr.

This seminar is an introduction to the field of international political economy. Topics may include but are not limited to major approaches to political economy and international political economy in political science, cooperation and regime theory, trade and finance, globalization, regional integration, and the use of economic sanctions in international politics.

POLI 6885 Seminar in International  
Conflict

3 cr.

The purpose of this course is to analyze the most important theories regarding the causes of international war and conflict. It will introduce students to a wide range of research on international conflict. Topics may include polarity, power transition theory, hegemony, arms races, alliances, deterrence theory, diversionary theories, regime types, rivalry, civil wars, the escalation and diffusion of wars, and trade and military conflict.

POLI 6890 Seminar in Civil  
Conflict

3 cr.

This course examines theories regarding the causes and effects of civil conflicts. Topics include the roles of ethnicity, ideology, natural resources, institutions, and government repression.

POLI 6910 Special Topics Seminar in Political  
Science

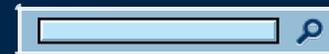
3 cr.

Topics for this seminar will vary from semester to semester. This course may be repeated twice with departmental permission, for a total of up to 9 hours.

POLI 6990 Independent Research

3 cr.




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## Psychology

General Prerequisites: with the exception of Psychology 1500 and 1520, students may not enroll in psychology courses unless they are eligible to enroll in Mathematics 1115 or 1125 and English 1157 or have credit in mathematics and English at the college level.

PSYC 1000          General  
Psychology

3 cr.

Offered each semester. A general introduction to the scientific study of the behavior of organisms. An honors section (1009) is available for qualified students.

PSYC 1009          General Psychology Honors  
cr.

3

Offered each semester. A general introduction to the scientific study of the behavior of organisms; for students in the Honors Program.

PSYC 1310          General Statistics  
3 cr.

Offered each semester. Prerequisites: PSYC 1000 or 2200 and MATH 1115 or higher. Frequency distributions, measures of central tendency and dispersion, correlation, discrete and continuous probability functions, tests of significance including t and chi-square. Introduction to analysis of variance, regression, and non-parametric tests of significance. Two hours of lecture and two hours of laboratory.

PSYC 1500          The Psychology of Personal  
Adjustment

3 cr.

Offered each semester. The psychology of daily living with emphasis on identification and coping with the stressors of life. Topics include personality, stress and anxiety, interpersonal relationships, and substance abuse

PSYC 1520          Human Sexual Behavior  
3 cr.

Offered each semester. Aspects of human sexuality including behavior, anatomy, physiology, cross-cultural comparisons, and historical and current perspectives.

PSYC 2091          Special Topics in Psychology  
3 cr.

Prerequisite: PSYC 1000 or 2200. Topics will vary from semester to semester. May be repeated for a total of six semester hours credit.

PSYC 2110          Child Psychology  
cr.

3

Prerequisite: PSYC 1000 or 2200. Study of the physical, social, and psychological development of the child.

PSYC 2120          Adolescent Psychology  
cr.

3

Prerequisite: PSYC 1000 or 2200. Study of the physical, social, and psychological development of the adolescent.

PSYC 2130	Adult Development and Aging	3
cr.		
Prerequisite: Psychology 1000 or 2200. Study of the physical, social, and psychological development of the adult.		
PSYC 2200	Educational Psychology	3 cr.
Applications of psychology to the educative process.		
PSYC 2300	Experimental Design and Methodology	3 cr.
Offered each semester. Prerequisite: : PSYC 1000 and any one of PSYC 1310, MATH 2314, or a first course in statistics. Introduction to scientific method, experimental and statistical design, scientific writing, and psychophysical and psychological research methodology. Two hours of lecture and two hours of laboratory.		
PSYC 2320	Introduction to Biopsychology	3
cr.		
Prerequisites:PSYC 1000 or BIOS 1083 or BIOS 1303. The study of the brain and nervous system, sensory processing, movement, development, sleep and arousal, motivation, emotion, learning, memory, cognitive function, and language.		
PSYC 2340	Motivation and Emotion	3
cr.		
Prerequisite: PSYC 1000 or 2200. Survey of classes of behavior seen in human and infra-human forms, including general activity and exploration, consummatory behavior, aggression, social affiliation, social approval, achievement, and goal-setting behavior; discussion of concepts of instinct, drive, habit, reinforcement, expectancy, and incentive.		
PSYC 2380	Psychology of Cognition	3
cr.		
Prerequisite: PSYC 1000 or 2200. The study of concept formation, problem-solving, understanding, and language with emphasis on the development thereof; theory, research, and application.		
PSYC 2400	Social Psychology	3
cr.		
Prerequisite: three hours of psychology or sociology. Survey of the cultural forces as they affect attitudes, social learning, perception, and communication of the individual and the group.		
PSYC 3090	Independent Reading and Research in Psychology	3 cr.
Offered each semester. Prerequisite: PSYC 2300 and consent of department. The individual student is responsible for the selection of the area of reading or research. May be repeated for a total of six semester hours credit.		
PSYC 3095	Field Experience in Applied Psychology	3 cr.
Prerequisites: Psychology 2300 completion of a 4000-level content course in an area relevant to the proposed field experience, and consent of department. Students will be placed in an agency or office setting which has been approved by the appropriate departmental committee, to gain supervised experience in the applications of psychology in field settings. Students usually work eight hours a week at times mutually agreeable to the individual and the applied setting. In addition, students must meet regularly with the faculty supervisor, and the student's work must be evaluated by both the faculty supervisor and the site supervisor. May be repeated for a total of six semester hours credit.		
PSYC 3099	Senior Honors Thesis	3 cr.
Offered each semester. Prerequisite: PSYC 2300, consent of department, consent of director of the Honors Program, and grade point averages of at least 3.5 in psychology and 3.25 overall. Senior honors thesis research in psychology under the direction of a faculty member. May be repeated for a total of six semester hours credit.		
PSYC 4000	Psychology Comprehensive Exam	0 cr.
Prerequisites: PSYC 2300, credit in any psychology course at the 4000 level, and junior standing. Open only to Psychology majors. This is a required, zero credit course, that psychology students must take in order to graduate. This course meets twice. Once for an organizational meeting, and once to take a comprehensive psychology exam.		

PSYC 4010	History of Modern Psychology	3 cr.
Offered each semester. Prerequisite: PSYC 2300. A historical survey of psychology with special reference to schools of psychology.		
PSYC 4091	Special Topics in Psychology	3 cr.
Prerequisite: PSYC 2300. The topics will vary from semester to semester. May be repeated for a total of six semester hours credit.		
PSYC 4100	Lifespan Developmental Psychology	3 cr.
Prerequisite: PSYC 2300. Emphasis on learning, motivation, perceptual, and verbal processes across the lifespan.		
PSYC 4310	Intermediate Statistics	3 cr.
Prerequisite: PSYC 2300. An intensive treatment of descriptive and inferential statistics, including an introduction to the analysis of variance. Consideration is given to special correlation procedures, including multiple prediction. Two hours of lecture and two hours of laboratory		
PSYC 4320	Physiological Psychology	3 cr.
Prerequisite: PSYC 2300 and 2320. An introduction to the function of the nervous system with respect to sensation, perception, learning, and motivation. Two hours of lecture and two hours of laboratory.		
PSYC 4330	Comparative Psychology	3 cr.
Prerequisite: PSYC 2300. Similarities and differences in behavior between and within various animal species, influences of heredity and experience on behavior. Two hours of lecture and two hours of laboratory.		
PSYC 4350	Psychology of Learning	3 cr.
Prerequisite: PSYC 2300. The study of behavior from the standpoint of learning. A critical review and analysis of recent experimental literature in the learning area plus a consideration of the major theories of learning. Two hours of lecture and two hours of laboratory.		
PSYC 4365	Sensation and Perception	3 cr.
Prerequisite: PSYC 2300. A consideration of the sensory systems (including vision, audition, olfaction, gustation, somesthesia) and a survey of perceptual phenomena, scaling, psychophysics, the organization of perception, perceptual learning, and sensation-perception distinctions.		
PSYC 4510	Personality	3 cr.
Prerequisite: Six hours of psychology courses at the 2000 level. Determinants and dynamics of personality.		
PSYC 4530	Introduction to Abnormal Psychology	3 cr.
Prerequisite: six hours of psychology courses at the 2000 level or above. An introduction to personality maladjustment and mental disorder.		
PSYC 4550	Clinical Psychology	3 cr.
Prerequisite: PSYC 2300. Introduction to the history, clinical techniques, research methods, ethics, and political concerns of clinical psychology.		
PSYC 4600	Psychological Tests and Measurements	3 cr.
Prerequisite: PSYC 2300. Test construction, standardization, validation; intelligence, clerical, mechanical, spatial aptitude tests; interest and personality tests; test batteries. Two hours of lecture and two hours of laboratory.		
PSYC 4700	Introduction to Personnel and Industrial Psychology	3 cr.
Prerequisite: PSYC 2300. A review of scientific methodology and statistical concepts applicable to the industrial situation; followed by the contributions of psychology to personnel selection, training, human relations, environmental engineering, organizational structure, and consumer research.		
PSYC 5010	History of Modern Psychology	3 cr.
Offered each semester. Prerequisite: PSYC 2300. A historical survey of psychology with special reference to schools of psychology.		

PSYC 5091	Special Topics in Psychology	3 cr.
Prerequisite: PSYC 2300. The topics will vary from semester to semester. May be repeated for a total of six semester hours credit.		
PSYC 5100	Lifespan Developmental Psychology	3 cr.
Prerequisite: PSYC 2300. Emphasis on learning, motivation, perceptual, and verbal processes across the lifespan.		
PSYC 5310	Intermediate Statistics	3 cr.
Prerequisite: PSYC 2300. An intensive treatment of descriptive and inferential statistics, including an introduction to the analysis of variance. Consideration is given to special correlation procedures, including multiple prediction. Two hours of lecture and two hours of laboratory		
PSYC 5320	Physiological Psychology	3 cr.
Prerequisite: PSYC 2300 and 2320. An introduction to the function of the nervous system with respect to sensation, perception, learning, and motivation. Two hours of lecture and two hours of laboratory.		
PSYC 5330	Comparative Psychology	3 cr.
Prerequisite: PSYC 2300. Similarities and differences in behavior between and within various animal species, influences of heredity and experience on behavior. Two hours of lecture and two hours of laboratory.		
PSYC 5350	Psychology of Learning	3 cr.
Prerequisite: PSYC 2300. The study of behavior from the standpoint of learning. A critical review and analysis of recent experimental literature in the learning area plus a consideration of the major theories of learning. Two hours of lecture and two hours of laboratory.		
PSYC 5365	Sensation and Perception	3 cr.
Prerequisite: PSYC 2300. A consideration of the sensory systems (including vision, audition, olfaction, gustation, somesthesia) and a survey of perceptual phenomena, scaling, psychophysics, the organization of perception, perceptual learning, and sensation-perception distinctions.		
PSYC 5510	Personality	3 cr.
Prerequisite: Six hours of psychology courses at the 2000 level. Determinants and dynamics of personality.		
PSYC 5530	Introduction to Abnormal Psychology	3 cr.
Prerequisite: six hours of psychology courses at the 2000 level or above. An introduction to personality maladjustment and mental disorder.		
PSYC 5550	Clinical Psychology	3 cr.
Prerequisite: PSYC 2300. Introduction to the history, clinical techniques, research methods, ethics, and political concerns of clinical psychology.		
PSYC 5600	Psychological Tests and Measurements	3 cr.
Prerequisite: PSYC 2300. Test construction, standardization, validation; intelligence, clerical, mechanical, spatial aptitude tests; interest and personality tests; test batteries. Two hours of lecture and two hours of laboratory.		
PSYC 5700	Introduction to Personnel and Industrial Psychology	3 cr.
Prerequisite: PSYC 2300. A review of scientific methodology and statistical concepts applicable to the industrial situation; followed by the contributions of psychology to personnel selection, training, human relations, environmental engineering, organizational structure, and consumer research.		
PSYC 6050	Seminar on Professional Problems	3 cr.
Prerequisite: consent of department. Review of licensing requirements in Louisiana and other states; ethical standards in practice, teaching, and research; and laws governing the use of humans and animals in research. Review of research grant application procedures, practicum responsibilities, and an overview of standard practices in the instruction of psychology courses.		
PSYC 6090	Independent Research in Psychology	3 cr.
Prerequisite: consent of department. This course may be repeated for credit. Research experience with psychological topics not being taken concurrently for thesis or dissertation credit. The individual student is		

responsible for the selection of the area of research.

PSYC 6091 Seminar 1 cr.

Prerequisite: Consent of Department. All graduate students will be expected to participate in a report and discussion group in the field of psychology. Must be taken for credit a minimum of four times.

PSYC 6101 Fundamentals of Applied Developmental Psychology I 3 cr.

Prerequisite: admission to graduate program in psychology and consent of department. A review of research and theory in life-span developmental psychology. Special consideration will be given to age-related changes in cognitive structure, language acquisition, sensation and perception, experiential influences, and social-emotional development.

PSYC 6102 Fundamentals of Applied Developmental Psychology II 3 cr.

Prerequisite: PSYC 6101 and Consent of Department. This course is concerned with how psychological research and intervention strategies are combined in health and human services settings. Social policy and available services will be discussed.

PSYC 6170 Problems in Social-Emotional Development 3 cr.

Prerequisite: PSYC 6101 and Consent of Department. A review and evaluation of research in social-emotional development throughout the life-span. Emphasis will be given to the determinants of deviant social-emotional development in childhood, maturity, and senescence. Techniques for the assessment and management of deviant development will be presented.

PSYC 6180 Problems in Cognitive and Intellectual Development 3 cr.

Prerequisite: PSYC 6101 and Consent of Department. A review of the theoretical, methodological, and applied issues in cognitive and intellectual development across the life-span. Emphasis is placed on research and its practical application to cognitive and intellectual deficiencies.

PSYC 6191 Practicum in Applied Developmental Psychology 3 min. cr. - 6 max. cr.

Prerequisites: PSYC 6050 6101 6311 6312 6350 6801 and either 6102 or 6802 and Consent of Department. Supervised experience in various fields of applied developmental psychology. Amount of credit to be stated at time of registration. May be repeated for credit.

PSYC 6195 Advanced Seminar in Applied Developmental Psychology 3 cr.

Prerequisite: PSYC 6101 and Consent of Department. The topics vary from semester to semester and may include current topics in social, personality, and cognitive development, developmental methods, or new or developing areas of application. This seminar may be repeated for credit.

PSYC 6311 Advanced Statistics I 3 cr.

Prerequisite: admission to graduate program in psychology and consent of department. Machine calculation, coding, measures of centrality and variation, regression, correlation, prediction, probability, statistical inference, chi square, t and F distributions, simple analysis of variance, multiple prediction, reliability and validity of measurements.

PSYC 6312 Advanced Statistics II 3 cr.

Prerequisites: PSYC 6311 and Consent of Department. Complex analysis of variance designs: factorial, treatments-by-subjects, groups-within-treatments, mixed, random replications, Latin and Greco-Latin Squares. Analysis of covariance, trend tests, non-parametric tests, sequential analysis, curve fitting.

PSYC 6350 Advanced Learning 3 cr.

Prerequisite: admission to graduate program in psychology and consent of department. An advanced study of the principles and theories of learning, including both animal and human learning. Two hours of lecture and two hours of laboratory.

PSYC 6395 Advanced Seminar in Statistics 3 cr.

Prerequisites: PSYC 6311 6312 and consent of department. The topics will vary from semester to semester and may include such topics as Regression, Multivariate Analysis, Factor Analysis and Psychometric Theory. The seminar may be repeated for credit.

PSYC 6400	Social Psychology	3 cr.
(SOC 6573 and PSYC 6400 are cross-listed) Analysis of the relationship between human behavior and social context, emphasizing the impact of social forces on social action and cognition. Topics include theoretical paradigms in social psychology, language use and interaction, small groups, self and identities, collective behavior, attitudes, and behavior. Critical analysis of existing theory and research methodology will be considered for each topic.		
PSYC 6500	Seminar in Psychological Interventions	3 cr.
Prerequisite: consent of department. Topics will vary from semester to semester. Each seminar will focus on a single model or method of intervention and practical considerations in its implementation. This seminar may be repeated for credit.		
PSYC 6550	Psychopathology	3 cr.
Prerequisite: consent of department. An introduction to the experimental analysis of deviant behavior.		
PSYC 6610	The Measurement of Intelligence	3 cr.
Prerequisite: consent of department.		
PSYC 6620	Developmental Assessment of Psychopathology	3 cr.
Prerequisite: consent of department. The theory and techniques used in the assessment of psychopathology from a developmental perspective.		
PSYC 6801	Fundamentals of Applied Biopsychology I	3 cr.
Prerequisite: admission to graduate program in psychology and consent of department. Review of anatomical, physiological, and biochemical bases of behavior with special consideration of the consequences of disease or injury-caused disturbances.		
PSYC 6802	Fundamentals of Applied Biopsychology II	3 cr.
Prerequisite: PSYC 6801 and an advanced undergraduate or graduate neuroanatomy lab and consent of department. Lectures and readings on the application of the fundamental principles of neurology and biology to the traditional subdisciplines of biopsychology, including sensation and perception, control of movement, emotion, motivation, learning and memory, and disorders of thought and mood.		
PSYC 6810	Psychopharmacology	3 cr.
Prerequisite: PSYC 6801 and consent of department. Interrelations of human biochemistry and behavior with particular attention to neural transmitters, the endocrine system, and clinical applications.		
PSYC 6820	Psychophysiology	3 cr.
Prerequisite: PSYC 6801 and consent of department. Review of physiological concomitants of normal and disturbed behavioral processes. Topics will include evoked potentials galvanic skin response and brainstem potentials. Two hours of lecture and two hours of laboratory.		
PSYC 6830	Neuropsychology	3 cr.
Prerequisite: PSYC 6801 and consent of department. Review and evaluation of research in and the diagnosis and treatment of brain dysfunction.		
PSYC 6840	Behavioral Medicine	3 cr.
Prerequisite: PSYC 6801 and consent of department. Summary of biological and behavioral interactions in the prevention, diagnosis, and treatment of psychosomatic disorders such as headaches, insomnia, sexual dysfunction, and cardiovascular diseases.		
PSYC 6891	Practicum in Applied Biopsychology	3 min. cr. - 6 max. cr.
Prerequisites: PSYC 6050, 6101, 6311, 6312, 6350, 6801, and either 6102 or 6802 and consent of department. Supervised experience in various fields of applied biopsychology. Amount of credit to be stated at time of registration. May be repeated for credit.		
PSYC 6895	Advanced Seminar in Applied Biopsychology	3 cr.
Prerequisite: PSYC 6801 and consent of department. The topics vary from semester to semester and may include such current topics as brain function theory, biopsychological methods, or new or developing areas of application. This seminar may be repeated for credit.		

PSYC 7000      Thesis Research      1 min. cr. - 9 max. cr.

Prerequisite: Consent of Department. To be repeated for credit until thesis is accepted. Section number will correspond with the credit to be earned.

PSYC 7010      Teaching of Psychology      3 cr.

Requisites: Masters degree and consent of department. Supervised experience in teaching an undergraduate lecture class in psychology. Provides didactic and practical experience in designing a coherent course structure, developing a syllabus, using innovative teaching methods, designing effective exams, evaluating teaching effectiveness, and being sensitive to ethical issues involved in teaching and interacting with students.

PSYC 7040      Examination or Thesis Only      0 cr.

Prerequisite: Consent of Department. Open to students in a thesis program who have only (other than application for degree) the final typing and acceptance by the Graduate School of their thesis or dissertation or to students in a non-thesis program who have only (other than application for degree) to pass the final examination to complete graduation requirements.

PSYC 7050      Dissertation Research      1 min. cr. - 9 max. cr.

Prerequisite: Consent of Department. Preparation of dissertation by Ph.D. candidate under direction of major professor and dissertation committee. Section number will correspond with credit to be earned. To be repeated for credit until dissertation is accepted.

PSYC 7191      Internship in Applied Developmental Psychology      6 min. cr. - 9 max. cr.

Offered each semester. Prerequisites: Completion of course work and general examination and consent of department. Only open to Applied Developmental Psychology graduate students nominated by the Department of Psychology and accepted by a departmentally-approved internship site. An internship normally involves the equivalent of 12 months of supervised full-time experience. To qualify as an internship, a minimum of 1500 hours at the site must be completed within 24 months. The internship is an intensive, advanced supervised experience required to be a practicing psychologist. May be repeated for credit. Pass/fail grading.

PSYC 7891      Internship in Applied Biopsychology      6 min. cr. - 9 max. cr.

Offered each semester. Prerequisites: Completion of course work and general examination and consent of department. Open only to applied biopsychology graduate students nominated by the Department of Psychology and accepted by a departmentally-approved internship site. An internship normally involves the equivalent of 12 months of supervised full-time experience. To qualify as an internship, a minimum of 1500 hours at the site must be completed within 24 months. The internship is an intensive, advanced supervised experienced required to be a practicing psychologist. May be repeated once for credit. Pass/fail grading.



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## Quantitative Methods–Business and Economics

QMBE 2786 Intermediate Business and Economics  
Statistics 3 cr.

Prerequisite: BA 2780, MATH 2785 or 2314 and concurrent enrollment in quantitative methods - QMBE 2787. Hypothesis testing; Chi-Squared distribution; analysis of variance; correlation; simple and multiple regression; non-parametric methods; forecasting.

QMBE 2787 Business and Economics Statistics  
Laboratory 1 cr.

Concurrent enrollment in QMBE 2786. Laboratory course will demonstrate business applications or principles covered in Math 2785 and QMBE 2786. Students will use statistical software packages to analyze a variety of business-oriented datasets and produce appropriate reports.

QMBE 4400 Statistics for Managers  
3 cr.

Gives the statistical foundation needed for managerial decision making and is designed to prepare students for graduate study in business. Covers topics in probability, random variables, sampling theory, statistical inference and regression analysis. Not open to College of Business undergraduate majors. May not be taken for graduate credit. Students may not receive credit for both QMBE 2785 and QMBE 2786 and this course.

QMBE 6280 Mathematics in Financial Economics  
3 cr.

Prerequisite: MATH 2107 or 2110. Mathematics and applications of the following topics: Multivariate calculus, integral calculus, matrix algebra, differential equations, and non-linear programming.

QMBE 6281 Econometrics I  
3 cr.

Prerequisites: QMBE 2786 and 6280. A review of basic statistical inference and treatment of the general linear regression model and its extensions. Topics include probability and distribution theory, estimation and hypothesis testing, linear regression, heteroskedasticity and serial correlation, varying parameter models, systems of linear regressions, nonlinear estimation and stochastic regressors.

QMBE 6282 Econometrics II  
3 cr.

Prerequisite: QMBE 6281. Topics in econometric analysis, including simultaneous equation models, time series analysis and distributed lag models, multiple time series, qualitative and limited dependent variable models, markets in disequilibrium, switching regressions, multicollinearity and robust estimation.

QMBE 6283 Seminar in Mathematics and Statistics for Financial  
Economics 3 cr.

Prerequisite: QMBE 6282. Applications of econometric methods to empirical problems in financial economics. Topics, selected by the instructor, will be drawn from recent literature and will illustrate the use of new and previously developed econometric methods.

QMBE 6295 Special Topics in Quantitative Methods  
max. cr.

1 min. cr. - 4

An intensive study of selected special topics in Quantitative Methods. Topics will vary based on contemporary needs as dictated by the discipline as well as the interests of the students and the instructor. Section number will correspond with credit to be earned. Course may be repeated up to 3 times as long as course content for each is different.

QMBE 6780 Operations  
Research

3 cr.

Offered each semester. This course is an introduction to solving quantitative problems in business and government organizations. It includes linear programming and the simplex algorithm; duality; the assignment and transportation problems; integer programming; goal programming; non-linear programming using LaGrange multipliers and the Kuhn-Tucker method; Markov chains; simulation; Von Neumann-Morgenstern analyses of utility, games, and decisions.



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## Roman Languages

ROML 4005      Greek & Roman Myth: The Ancient Sources      3  
cr.

Prerequisite: Latin 1012 or Greek 1012 or consent of department. A survey of Greek and Roman mythology originating from the ancient texts of classical authors. Concentration is on the multiple functions of myths and their interpretations in both the ancient and modern worlds. Further attention is directed to visual models depicting classical themes and the introduction of Greek and Latin words and nomenclature.

ROML 5005      Greek & Roman Myth: The Ancient Sources  
3 cr.

Prerequisite: Latin 1012 or Greek 1012 or consent of department. A survey of Greek and Roman mythology originating from the ancient texts of classical authors. Concentration is on the multiple functions of myths and their interpretations in both the ancient and modern worlds. Further attention is directed to visual models depicting classical themes and the introduction of Greek and Latin words and nomenclature.

ROML 6003      Applied Romance Linguistics      3 cr.

Evaluation of language teaching methods based on recent learning theory. Readings and discussions of language methodology and textbook critiques. Required of all graduate students.

ROML 6005      Romance Linguistics      3  
cr.

Prerequisite: FREN 4015 or SPAN 4015 or equivalent. Comparative study of the history, phonology, morphology, and syntax of the two principal Romance languages. Required of graduate students with language/civilization concentration.

ROML 6105      Methods of Research of Romance Literatures      3  
cr.

A study of techniques of literary analysis and literary scholarship appropriate to each of the major genres of French and Spanish.

ROML 6205      Comparative Romance Cultures  
3 cr.

Prerequisite: FREN 4265 or SPAN 4265 or equivalent. Focus on the links of contemporary French and Spanish cultures to American culture through in-depth study of a common particular theme, problem, or perspective in the humanities, arts, or social sciences.

ROML 6207      Early Modern Romance Cultures      3  
cr.

Prerequisite: FREN 4201 or SPAN 4201 or equivalent. Focus on major themes in common to three romance cultures (French, Italian, Spanish) in their early periods of development, i.e. pre-1600. Topics may include courtliness and courtly love; leader and community; realism, magic, and afterlife; creativity and crisis; images of women in literature and art. May be repeated once for credit.



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## Sociology

### SOC 1051      Introductory Sociology

3 cr.

Offered each semester. A first course in the study of human beings in society using basic concepts and methods of sociology. Topics include the influences of social groups on individuals' attitudes and behaviors, stability and change in the family, and social inequality.

### SOC 2098      Special Topics in Sociology

3 cr.

A theoretical and methodological examination of selected sociological topics with emphasis on current trends and tendencies in modern societies. This course may be repeated once for credit.

### SOC 2273      Society and the Person

cr.

A review of the relationships between society and the person. The social conditioning of the individual through infancy, childhood, and adult life and the reciprocal influences of the person in society are the essence of the course.

### SOC 2707      Social Statistics I

cr.

Offered each semester. A study of descriptive and inferential statistics employed in social science research including measures of central tendency and variation, rates, graphing techniques, measures of association, tests of significance, and regression. Laboratory meetings also cover introduction to computer usage, spread sheets, and PC-based statistics programs. Successful completion of SOC 2707 and 2708 meets the general degree requirement for computer literacy. Three hours of lecture and two hours of laboratory.

### SOC 2708      Methods in Social Research

cr.

Offered each semester. A comprehensive examination of the logic and applications of the scientific method in the social sciences. Topics include survey, evaluation, experiment, existing sources, and field research. In addition, the student is introduced to computer usage, including work processing and data analysis with a statistics package on a main frame computer. Successful completion of Sociology 2707 and 2708 meets the general degree requirement for computer literacy.

### SOC 2871      The Environment as a Social Problem

cr.

Examines environmental hazards and depletion of natural resources as important social problems confronting contemporary society. Alternative understandings of the seriousness and probable causes of a number of environmental problems, such as air pollution, toxic contamination, loss of wetlands, and species extinction, are explored.

### SOC 2881      The City

3 cr.

A comparative study of cities and social groups and processes in the urban environment.

SOC 2962	Current Social Problems	3 cr.
A study of contemporary social problems and their consequences for humankind with emphasis on American society. Topics include crime, drug abuse, family problems, inequality, mental illness, population problems, and suicide.		
SOC 2994	Multiculturalism and Diversity in U.S. Society	3 cr.
U.S. society has been settled by immigrants from all over the world. In addition, such constitutional protections as freedom of speech, freedom of the press, and freedom of association create legal protections for diversity. The present course uses sociological concepts and theories to analyze diversity and multiculturalism in U.S. society. It identifies circumstances which tend to give rise to tolerance or repression, assimilation or separation, respect or condemnation. It addresses both the problems diversity generates, as well as the potential it has to enrich our lives.		
SOC 3091	Independent Work	1 cr.
Offered each semester. Prerequisite: consent of department. Readings, conferences, and research reports under the direction of a member of the sociology faculty. In no case may a student register for SOC 3091-3097 for a total of more than nine hours, nor may a student apply more than six hours of sociology courses numbered 3091-3097 toward the hours required for the major in sociology.		
SOC 3092	Independent Work	1 cr.
Offered each semester. Prerequisite: consent of department. Readings, conferences, and research reports under the direction of a member of the sociology faculty. In no case may a student register for SOC 3091-3097 for a total of more than nine hours, nor may a student apply more than six hours of sociology courses numbered 3091-3097 toward the hours required for the major in sociology.		
SOC 3093	Independent Work	1 cr.
Offered each semester. Prerequisite: consent of department. Readings, conferences, and research reports under the direction of a member of the sociology faculty. In no case may a student register for SOC 3091-3097 for a total of more than nine hours, nor may a student apply more than six hours of sociology courses numbered 3091-3097 toward the hours required for the major in sociology.		
SOC 3094	Independent Field Research in Sociology	3 cr.
Offered each semester. Prerequisite: consent of department. Practical applications of data collection methods in natural settings; observation, participant-observation and field experimentation; emphasis on implementing research methods in the community. In no case may a student register for Sociology 3091-3097 for a total of more than nine hours, nor may a student apply more than six hours of sociology courses numbered 3091-3097 toward the hours required for the major in sociology.		
SOC 3095	Independent Field Research in Sociology	3 cr.
Offered each semester. Prerequisite: consent of department. Practical applications of data collection methods in natural settings; observation, participant-observation and field experimentation; emphasis on implementing research methods in the community. In no case may a student register for Sociology 3091-3097 for a total of more than nine hours, nor may a student apply more than six hours of sociology courses numbered 3091-3097 toward the hours required for the major in sociology.		
SOC 3096	Internship in Sociology	3 cr.
Offered each semester. Prerequisites: Sociology 2707, 2708 or consent of department. The sociology intern is placed in a city, parish, or state government agency or office in the metropolitan area to learn about the applicability of the sociological perspective and methodology to applied endeavors in government. Interns usually work eight hours a week at times mutually agreeable to the individual and the agency. In addition, students must meet regularly with the faculty adviser and the student's work must be evaluated by both the supervisor and adviser. In no case may a student register for Sociology 3091-3097 for a total of more than nine hours, nor may a student apply more than six hours of sociology courses numbered 3091-3097 toward the hours required for the major in sociology.		
SOC 3097	Internship in Sociology	3 cr.
Offered each semester. Prerequisites: Sociology 2707, 2708 or consent of department. The sociology intern is placed in a city, parish, or state government agency or office in the metropolitan area to learn about the applicability of the sociological perspective and methodology to applied endeavors in government. Interns usually		







SOC 5103	Racial Issues	3 cr.
Prerequisite: Soc 1051 or consent of department. This course introduces students to the sociology of race and ethnicity. It examines the history of race in the West through an analysis of institutional discourse and policy. It also explores current racial issues.		
SOC 5104	The Family	3 cr.
An analysis of the family in social context, with emphasis on the ways in which communities and societies promote stability and change in families. Patterns of interaction among family members are also explored, together with the impact of family life on the individual's social development.		
SOC 5107	Sociology of Gender	3 cr.
Prerequisites: six hours in sociology. This course examines issues of gender for men and women in society through a range of theoretically defined topics. Topics covered include the intersections of gender with race/ethnicity, class, and sexual orientation; gender role socialization, childbearing, reproductive rights, and parenting. Also included are units on gender and health, intimacy, and friendship. These topics are examined in terms of the social, economic, and political bases for gender differences.		
SOC 5111	Sociology of Medicine	3 cr.
A sociological analysis of the interpersonal dynamics involved in the treatment of illness and the organizational structure and functions of health services.		
SOC 5112	Sociology of Mental Health	3 cr.
A sociological analysis of mental illness including the following areas: the history of mental illness in society, etiological explanations of mental illness, epidemiology of mental illness, mental health professions, law and psychiatry, community mental health, and mental health and social policy.		
SOC 5113	Sociology of Aging and Death	3 cr.
An examination of the personal, interpersonal, and cultural dimensions of aging, together with an appraisal of the meaning and consequences of death in America. While the emphasis is contemporary, some historical and cross-cultural materials are also used. Attention is drawn to personal and societal needs associated with aging and death.		
SOC 5124	Social Stratification	3 cr.
A study of classes, status groups, castes, and social mobility.		
SOC 5150	Sociology of Popular Culture	3 cr.
The course provides a survey of the sociology of culture, with a focus on popular culture. The emphasis is on theoretical approaches to the relationship of culture and society, the process of cultural production, and the reception of culture. The substantive focus includes the variety of meanings of film, rock music, and sport.		
SOC 5161	Political Sociology	3 cr.
An examination of social institutions and political ideologies under conditions of early and late modernity. Particular attention is given to the new types of social and political challenges created by globalization and such human-created risks as global climate change and bioterrorism. Additional topics include the relation between deliberative democracy and community, the continuing influence of tradition and fundamentalism, and international efforts to promote gender equity and human rights.		
SOC 5180	Women and Work	3 cr.
Topics include an overview of the status of women, market work, including labor force participation, wages and wage discrimination, occupational segregation, equal pay for work of comparable worth, and domestic work.		
SOC 5216	Advanced Social Psychology	3 cr.
Current theoretical and research problems in social psychology from a sociological perspective. Review of traditional areas such as socialization, perception, role attitudes, and group dynamics. Emphasis on new developments in socio- and psycho-linguistics, information theory, participation, observation, and experimental methods.		
SOC 5219	Social Deviance	3 cr.
Prerequisite: six hours in sociology. A survey of theory and research on the violation of social norms and laws. Primary emphasis is on social phenomena influencing conformity and deviance, together with institutional		





SOC 6783	Advanced Sociological Theory	3 cr.
Prerequisite: SOC 4086, SOC 5086, or equivalent. A critical and analytical study of the major theoretical perspectives in contemporary sociology emphasizing the specific concepts and issues as well as ways these theories have shaped and guided social research.		
SOC 6784	Methods of Sociological Investigation	3 cr.
A study of the principle methods of social science research with the purpose of developing students' ability to conduct research and be critical users of professional research.		
SOC 6785	Seminar in Research Applications	3 cr.
Prerequisites: SOC 5788, 6783, and 6784 or consent of Graduate Coordinator. The course provides graduate students advanced instruction in research design and analysis. It examines the types of validity claimed by sociological knowledge, covers research design and analytical methods, and culminates in a specific thesis proposal from each student.		
SOC 6788	Qualitative Methods in Sociology	3 cr.
This course examines qualitative research methods in sociology, focusing on participant and nonparticipant observation, in-depth interviewing, and the use of documents as data. Attention is paid to the sociological analysis of qualitative data and how qualitative research is written for publication.		
SOC 6813	Urban Sociology	3 cr.
An overview of theory and research on urban issues from a sociological perspective.		
SOC 6814	Seminar in Sociology of Development	3 cr.
This course offers advanced instruction in the sociology of development using a comparative cross-national perspective. It examines various theoretical and methodological approaches to the study of societal development, as well as the implications of diverse development strategies for developed and underdeveloped countries. The social, institutional, and historical factors and processes affecting national development will be addressed.		
SOC 6816	Seminar on Sexualities	3 cr.
This course studies the sociological study of sexuality. Topics covered include theories of sexuality, sexual bodies, sexual identities and communities, sexual politics and social institutions.		
SOC 6871	Environmental Analysis	3 cr.
Prerequisite: URBN 6850 or consent of coordinators. An investigation of environmental problems from a sociological perspective, with an emphasis on environmental analysis, management, and policy.		
SOC 7000	Thesis Research	1 min. cr. - 9 max. cr.
Offered each semester. To be repeated for credit until thesis is accepted. Section number will correspond with credit to be earned.		
SOC 7040	Examination or Thesis Only No credit	0 cr.
Open to students in a thesis program who have only (other than application for degree) the final typing and acceptance by the Graduate School of their thesis or dissertation or to students in a non-thesis program who have only (other than application for degree) to pass the final examination to complete graduation requirements.		



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## Spanish

Placement of students with high school preparation in Spanish: students with sufficient preparation in Spanish may enter the second, third, or fourth semester course in that language, thus completing the foreign language requirement in fewer semesters. Students interested in taking placement tests should contact the Foreign Language departments. Language courses in the 1001, 1002, 2001, 2002 sequence must be taken in that order.

### SPAN 1001 Basic Spanish

I 3 cr.

Offered each semester. A sequence of courses developing all four language skills: speaking, understanding, writing, and reading. The course includes the presentation and discussion of cultural material such as magazines, films, records, and other audio-visual items when feasible.

### SPAN 1002 Basic Spanish

II 3 cr.

Prerequisite: SPAN 1001. A continuation of SPAN 1001.

### SPAN 2001 Intermediate Spanish I

3 cr.

Prerequisite: SPAN 1002 or consent of department. Continuation of the development of all four language skills: speaking, understanding, writing, and reading. The course includes the presentation and discussion of cultural material such as magazines, films, records, and other audio-visual items when feasible.

### SPAN 2002 Intermediate Spanish II

3 cr.

Prerequisite: SPAN 2001 or consent of department. Readings and exercises in Spanish. Special emphasis on comprehension as well as oral and written expression in the language.

### SPAN 2003 Basic Spanish for Hispanic Students

3 cr.

Prerequisite: consent of department. Reading, writing, and vocabulary-building exercises especially prepared for the student whose home language is Spanish.

### SPAN 2004 Intermediate Spanish for Hispanic Students

3 cr.  
Prerequisite: Spanish 2003 or consent of department. Reading, writing, and vocabulary-building exercises especially prepared for the student whose home language is Spanish.

### SPAN 3002 Phonetics

3 cr.

Phonetic principles applied specifically to an analysis of the phonetic system of Spanish. Intensive practice in the language laboratory, ear training, transcriptions, and corrective exercises.

### SPAN 3005 Romance Linguistics

3 cr.

(SPAN 3005 and FREN 3005 are cross-listed) Comparative study of the history, phonology, morphology, and

syntax of the principal Romance languages.

SPAN 3031 Spanish Conversation 3

cr.

Prerequisite: SPAN 2002 or consent of department. Conversation, oral discussions, interpretations and reports, practicing the spoken language. Not open to native speakers of Spanish. Native speakers majoring in Spanish must substitute three hours at the 3000 level or above.

SPAN 3041 Advanced Spanish Grammar 3

cr.

Fall semester. Intensive study of Spanish grammar and syntax. This course is designed primarily for prospective teachers and students concentrating in the language.

SPAN 3042 Advanced Spanish Composition and Syntax 3

cr.

Spring semester. Prerequisite: SPAN 3041. Drill in original descriptive and narrative composition in the language with attention to style, syntax, idioms, and verb forms.

SPAN 3055 Introduction to the Analysis and Interpretation of Spanish Literature 3

cr.

A study of techniques of literary analysis particular to each of the major genres with readings and discussion of representative works.

SPAN 3100 Survey of Spanish Literature I 3

cr.

Fall semester. A study of Spanish literature from its beginnings to the eighteenth century. Classes conducted in English. Additional work done in connection with this course may be used by Spanish majors to fulfill the Liberal Arts oral proficiency requirement.

SPAN 3101 Survey of Spanish Literature II 3

cr.

Spring semester. Continuation of SPAN 3100. Study of the main authors and literary movements from the eighteenth century to the present. Classes conducted in English. Additional work done in connection with this course may be used by Spanish majors to fulfill the Liberal Arts oral proficiency requirement.

SPAN 3191 Independent Work 1

cr.

Prerequisite: consent of department. Readings, conferences, and papers under the direction of a member of the faculty. The course allows the student to correlate and supplement the work covered in the departmental courses. Each course may be repeated but combined credit may not exceed six semester hours.

SPAN 3192 Independent Work 1

cr.

Prerequisite: consent of department. Readings, conferences, and papers under the direction of a member of the faculty. The course allows the student to correlate and supplement the work covered in the departmental courses. Each course may be repeated but combined credit may not exceed six semester hours.

SPAN 3193 Independent Work 1 cr.

Prerequisite: consent of department. Readings, conferences, and papers under the direction of a member of the faculty. The course allows the student to correlate and supplement the work covered in the departmental courses. Each course may be repeated but combined credit may not exceed six semester hours.

SPAN 3194 Internship in Spanish 1 cr.

Prerequisite: consent of Spanish undergraduate coordinator. The internship project will receive written evaluation from the outside supervisor of the project and from the undergraduate coordinator. A student may earn no more than a total of three credits in the undergraduate curriculum for an internship project or projects. Students receiving three credits will work a minimum of eight hours per week; two credits, six hours per week; one credit, three hours per week.

SPAN 3195 Internship in Spanish 1

cr.

Prerequisite: consent of Spanish undergraduate coordinator. The internship project will receive written evaluation from the outside supervisor of the project and from the undergraduate coordinator. A student may earn no more than a total of three credits in the undergraduate curriculum for an internship project or projects. Students receiving three credits will work a minimum of eight hours per week; two credits, six hours per week; one credit, three hours per week.

SPAN 3196 Internship in Spanish 1

cr.

Prerequisite: consent of Spanish undergraduate coordinator. The internship project will receive written evaluation from the outside supervisor of the project and from the undergraduate coordinator. A student may earn no more than a total of three credits in the undergraduate curriculum for an internship project or projects. Students receiving three credits will work a minimum of eight hours per week; two credits, six hours per week; one credit, three hours per week.

SPAN 3197 Demonstration of Oral Proficiency 1 cr.

The course is to be taken concurrently with SPAN 3055, 3100, or 3101. The student will be required to present a detailed "explication de texte" to the professor teaching the course and conduct a discussion with the professor related to the chosen text and receive a pass/fail grade. Successful completion of this course satisfies the general degree requirement for oral competency.

SPAN 3199 Independent Work for Honors Students 3 cr.

Prerequisite: consent of department and Director of the University Honors Program. Directed research culminating in a written thesis to meet the requirements for graduation with Honors in Spanish, and if appropriate, University Honors.

SPAN 3271 Spanish-American Civilization 3 cr.

A study of Spanish-American civilization: history, social, organization, and culture. Open to all students with a reading knowledge of Spanish equivalent to completion of SPAN 2002 or 2012. Discussions in English.

SPAN 3402 Masterpieces of Spanish and Spanish-American Literature in Translation 3 cr.

(Open to all students, including Spanish and Spanish Education majors, for degree credit as an elective.) Different Spanish or Spanish-American works in translation are chosen each time for reading, analysis, and discussion.

SPAN 3405 Romance Literatures and Film 3 cr.

(SPAN 3405 and FREN 3405 are cross-listed). Prerequisite: SPAN 2002 or consent of department. A study of literary works written in romance languages, especially in the genre of historical narratives, and of the movies that they inspired. Taught in English.

SPAN 3406 The Romance Cultures of New Orleans 3 cr.

(Cross listed with SPAN 3406) Prerequisite: FREN 2002 or consent of department. A study of the Romance languages used in New Orleans and Louisiana, such as French (Creole and Cajun), Spanish (including the Islenos), and Italian (including the Calebro-Sicilian dialect), as well as the popular culture based on them: poetry, songs, story-telling and customs for festivals. Taught in English.

SPAN 3500 Tutorial for Graduating Majors 1 cr.

This course prepares majors for the completion of their requirements for the B.A. in Spanish. A designated professor will serve as advisor. The course consists of a review of the subjects covered in other required courses, in literature, language/linguistics and civilization. The course concludes with the Written Exit Exam, a comprehensive two-hour exam in Spanish. Prerequisite: 100 hours of course work. Tutorial format. Pass/Fail.

SPAN 4007 Spanish Dialectology 3 cr.

Prerequisite: SPAN 2002 or consent of department. A study of the phonology, morphology, syntax, and vocabulary of the different regions of the Spanish-speaking world.

SPAN 4015 History of the Spanish Language 3 cr.

Prerequisite: SPAN 2002 or consent of department. A general survey of the development of the Spanish language from its beginnings to the present day with particular attention to the phonology, morphology, and syntax of old Spanish.

SPAN 4031	Advanced Spanish Conversation	3 cr.
Prerequisite: SPAN 2002 or consent of department. Intensive practice in the spoken language: conversation, oral discussions, interpretations, and reports. Conducted in Spanish. Native speakers may enroll with the instructor's prior approval.		
SPAN 4041	Problems of Grammatical Analysis	3 cr.
Prerequisite: SPAN 2002 or consent of department. Problems of grammatical analysis and contrastive stylistics are discussed on a basis that combines traditional approaches and more recent theories. Application in translation exercises, from and into Spanish, and introduction to literary translation.		
SPAN 4110	Medieval Spanish Literature	3 cr.
Prerequisite: SPAN 2002 or consent of department. Readings in the principal genres from the beginnings to 1500.		
SPAN 4122	Spanish Literature of the Golden Age	3 cr.
Prerequisite: SPAN 2002 or consent of department. Studies in the chivalric, pastoral, and picaresque prose of the sixteenth and seventeenth centuries ( with emphasis on Cervantes) and the Spanish "codedia" (Iope de Vega, Tirso de Molina, Calderon de la Barca).		
SPAN 4180	Modern Literature in Spanish	3 cr.
Prerequisite: SPAN 2002 or consent of department. A Study of peninsular and Spanish-American authors, with emphasis on the "Modernista", the "avantgarde," and the Civil War period.		
SPAN 4201	Spanish Civilization I	3 cr.
A study of Spanish culture and civilization (history, fine arts, music, architecture, history of ideas, national character, etc.) from its origins through the reign of Ferdinand and Isabella. Readings and discussions in Spanish.		
SPAN 4202	Spanish Civilization II	3 cr.
A continuation of SPAN 4201 stressing the cultural history of Spain from the Habsburg dynasty to the present day. Readings and discussions in Spanish.		
SPAN 4203	Spanish American Civilization I	3 cr.
Study of Spanish American culture and civilization (history, fine arts, music, architecture, history of ideas, etc.) from pre-colonial to the modern period. Readings and discussions in Spanish.		
SPAN 4204	Spanish American Civilization II	3 cr.
Prerequisite: SPAN 2002 or consent of department. Study of Spanish American culture and civilization (history, fine arts, music, architecture, history of ideas, etc.) from the modern period to the contemporary period. Readings and discussions in Spanish.		
SPAN 5007	Spanish Dialectology	3 cr.
Prerequisite: SPAN 2002 or consent of department. A study of the phonology, morphology, syntax, and vocabulary of the different regions of the Spanish-speaking world.		
SPAN 5015	History of the Spanish Language	3 cr.
Prerequisite: SPAN 2002 or consent of department. A general survey of the development of the Spanish language from its beginnings to the present day with particular attention to the phonology, morphology, and syntax of old Spanish.		
SPAN 5031	Advanced Spanish Conversation	3 cr.
Prerequisite: SPAN 2002 or consent of department. Intensive practice in the spoken language: conversation, oral discussions, interpretations, and reports. Conducted in Spanish. Native speakers may enroll with the instructor's prior approval.		
SPAN 5041	Problems of Grammatical Analysis	3 cr.
Prerequisite: SPAN 2002 or consent of department. Problems of grammatical analysis and contrastive stylistics are discussed on a basis that combines traditional approaches and more recent theories. Application in translation exercises, from and into Spanish, and introduction to literary translation.		
SPAN 5110	Medieval Spanish Literature	3 cr.
Prerequisite: SPAN 2002 or consent of department. Readings in the principal genres from the beginnings to 1500.		

SPAN 5122	Spanish Literature of the Golden Age	3 cr.
Prerequisite: SPAN 2002 or consent of department. Studies in the chivalric, pastoral, and picaresque prose of the sixteenth and seventeenth centuries ( with emphasis on Cervantes) and the Spanish "codedia" (lope de Vega, Tirso de Molina, Calderon de la Barca).		
SPAN 5180	Modern Literature in Spanish	3 cr.
Prerequisite: SPAN 2002 or consent of department. A Study of peninsular and Spanish-American authors, with emphasis on the "Modernista", the "avantgarde," and the Civil War period.		
SPAN 5201	Spanish Civilization I	3 cr.
A study of Spanish culture and civilization (history, fine arts, music, architecture, history of ideas, national character, etc.) from its origins through the reign of Ferdinand and Isabella. Readings and discussions in Spanish.		
SPAN 5202	Spanish Civilization II	3 cr.
A continuation of SPAN 4201 stressing the cultural history of Spain from the Habsburg dynasty to the present day. Readings and discussions in Spanish.		
SPAN 5203	Spanish American Civilization I	3 cr.
Study of Spanish American culture and civilization (history, fine arts, music, architecture, history of ideas, etc.) from pre-colonial to the modern period. Readings and discussions in Spanish.		
SPAN 5204	Spanish American Civilization II	3 cr.
Prerequisite: SPAN 2002 or consent of department. Study of Spanish American culture and civilization (history, fine arts, music, architecture, history of ideas, etc.) from the modern period to the contemporary period. Readings and discussions in Spanish.		
SPAN 6007	Spanish Linguistics	3 cr.
Advanced study of Spanish phonology, morphosyntax, and semantics within the framework of recent linguistic models, including consideration of solution of major descriptive problems proposed from at least 1900 to the present.		
SPAN 6190	Studies in Medieval Spanish Literature	3 cr.
(May be repeated once for credit.)		
SPAN 6191	Studies in Golden Age Literature	3 cr.
(May be repeated once for credit.)		
SPAN 6195	Studies in Contemporary Spanish Literature	3 cr.
(May be repeated once for credit.)		
SPAN 6196	Studies in Spanish-American Literature to 1810	3 cr.
(May be repeated once for credit.)		
SPAN 6198	Studies in Spanish Literature	3 cr.
(May be repeated once for credit.)		
SPAN 6205	Spanish Thought	3 cr.
History of ideas in Spain. Study of texts constituting significant contributions to political, social, scientific, religious, philosophical, and aesthetic discourse.		
SPAN 6207	Spanish-American Thought	3 cr.
This course examines the evolution of Spanish-American thought with reference to the development of political, economic, social, and cultural institutions. Throughout the course, past developments will be related to contemporary issues.		
SPAN 6265	Contemporary Hispanic Society and Institutions	3 cr.
A comprehensive study of Spanish speaking countries today: political, social, economic, and religious institutions, intellectual life, contemporary issues. Topics include: A) Spain; B) Andean countries, (Colombia, Ecuador, Peru, and Bolivia); C) Caribbean (Cuba, Dominican Republic, Puerto Rico, and Caribbean coasts of Venezuela, Colombia, and the nations of Central America); D) River Plate Region (Argentina, Chile, Paraguay, and Uruguay).		
SPAN 6295	Studies in Hispanic Culture and Civilization	3 cr.

(May be repeated once for credit.)

SPAN 6397 Directed Study 3 cr.  
 Readings, conferences, reports, and a research paper under the direction of a member of the graduate faculty.  
 (May be repeated once for credit.)

SPAN 7000 Thesis Research 1 min. cr. - 9 max. cr.  
 To be repeated for credit until thesis is accepted. Section number will correspond with credit to be earned

SPAN 7040 Examination or Thesis Only 0 cr.  
 Open to students in a thesis program who have only (other than application for degree) the final typing and acceptance by the Graduate School of their thesis or to students in a non-thesis program who have only (other than application for degree) to pass the final examination to complete graduation requirements.



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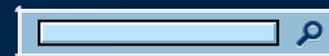
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## Special Education and Habilitative Services

### EDSP 1001 Basic Sign Language

I 3 cr.

This is the first in a sequence of courses developing Sign Language skills. The students will be introduced to Sign Language and fingerspelling. Receptive and expressive sign language skills will be emphasized with specific focus on the ability to participate in functional communication and artistic signing situations at a beginner's level. An overview of the variety of sign systems and the history of American Sign Language (ASL) will be introduced.

### EDSP 1002 Basic Sign Language

II 3 cr.

Prerequisites: EDSP 1001 or consent of department. This course is the second in a sequence of courses developing Sign Language skills. Audio-visual items will be used to enhance the process of language acquisition. It focuses more directly on American Sign Language (ASL) structure and building a broader base of sign vocabulary and phrases. In addition, participation in local events for Deaf and hard of hearing persons is required along with the study of cultural aspects of the deaf community.

### EDSP 2001 Intermediate Sign Language

I 3 cr.

Prerequisites: EDSP 1001 and 1002, or consent of department. This course is the third in a sequence of courses developing Sign Language skills (ASL). Conversational skills will be promoted with specific focus on the ability to participate in more abstract communication situations with native users in natural settings. An expansion of vocabulary and internalization of the linguistic rules of ASL is emphasized, as well as increased contact with the Deaf community. Field experiences outside of class time are required.

### EDSP 3610 Introduction to Students with Mild-Moderate Disabilities

3 cr.

Prerequisite: Credit for or concurrent enrollment in EDUC 2200 or 2204. Study and application of recommended practices related to curriculum development, assessment, teaching strategies, instructional materials, collaboration, advocacy, and professionalism in special education.

### EDSP 3620 Methods of Instruction for Students with Mild/Moderate Disabilities

3 cr.

Prerequisites: Admission to the Teacher Education Program and EDSP 3610. Study and application of recommended practices related to teaching language arts, mathematics, science, and social studies to students with mild/moderate disabilities.

### EDSP 3640 Effective Instruction for Transition of Students with Disabilities

3 cr.

Prerequisites: Admission to the Teacher Education Program and credit for or concurrent enrollment in EDSP 3620. This course involves the design and implementation of effective instructional strategies, including transition planning for students with mild-moderate disabilities. Candidates will participate in field experience in school settings and generate artifacts to document performance of required competencies.

### EDSP 3650 Practicum in Positive Behavior Intervention and

Support 3 cr.

Prerequisite: Enrollment in this course is with consent of the department. Candidates should enroll in this course in the semester prior to Student Teaching. Description: This practicum involves site-based performance activities, observations, and seminars in positive behavior intervention and support, particularly for students with mild/moderate disabilities. A major component of this practicum also includes the application of information, strategies, and dispositions associated with effective behavior management. Candidates will be required to plan, implement, and assess their own behavior management skills in an authentic K-12 educational setting.

EDSP 3660 Practicum in Inclusive Practices 3 cr.

Prerequisite: Consent of department. Teacher Candidates must enroll in this course the semester prior to student teaching. (Offered fall and spring). This practicum involves site-based performance activities, observations, and seminars in inclusive practices for students with mild/moderate disabilities. This course emphasizes meeting the needs of students with disabilities in inclusive general education settings as well as integrating knowledge and skills acquired in the associated coursework in special education.

EDSP 3982 Independent Study in Special Education and Habilitative Services 1 min. cr. - 3 max. cr.

Prerequisite: Consent of department. Investigations of pertinent problems under the direction of a faculty member. This course may be repeated but the total credit may not exceed six semester hours. Section number will correspond with credits to be earned.

EDSP 4010 Introduction Instructional Issues for Students with Severe Disabilities 3 cr.

Examination of key issues related to the design, implementation, and evaluation of effective educational services for learners with severe disabilities. Emphasis on population characteristics, current service delivery issues, legislation and litigation, initial instructional design strategies, and student level instructional issues. Candidates also are introduced to professional development strategies which will be continued throughout the program of study. Candidates must complete a professional development plan through participation in a field experience cohort as a component of this course.

EDSP 4060 Behavior Modification in Applied Settings 3 cr.

The study of and use of behavior modification techniques in applied settings. In conjunction with coursework students must complete a behavior change project in an applied setting.

EDSP 4420 Foundations in Deaf Education 3 cr.

The physiological, psychological, historical, and sociological and cultural aspects of deafness and hearing loss.

EDSP 4440 Sign Language I 3 cr.

An introduction to sign language and fingerspelling. Receptive and expressive sign language skills will be emphasized with specific focus on the ability to participate in functional communication situational. An overview of the variety of sign systems used in educational settings will be presented.

EDSP 4450 Sign Language II 3 cr.

Prerequisite: EDSP 4440. A course designed to develop both receptive and expressive fluency in Sign Language(s) according to the needs of the individuals in the class.

EDSP 4510 Introduction to the Gifted and Talented 3 cr.

Characteristics, identification, needs, teacher qualifications, and organizational patterns for the gifted and talented.

EDSP 4775 Tests and Measurements for Exceptional Individuals 3 cr.

Definition and terminology in tests and measurements as employed with exceptional individuals. Description, analysis, and interpretation of various formal and informal evaluation instruments and practices.

EDSP 4776 Practicum in Tests and Measurements for Individuals with Exceptionalities 3 cr.

Prerequisite: EDSP 4775. Conducted under the supervision of university personnel. Required activities include exposure to and experience with informal testing, use of formal evaluation results to generate Individual Education Plans (IEP's), and participation in IEP conferences.

EDSP 4810 Structure and Foundation of the Eye 3 cr.

Designed to provide an orientation to the parts of the eye and their functions; abnormalities and conditions that result in varying degrees of visual loss; and general considerations which these losses require in educational programming.

EDSP 4820 Introduction to Braille 3 cr.

Mastery of the English Braille Code Grade II (Literacy Braille Format); emphasis will be placed on transcribing through the visual modality.

EDSP 4830 Orientation and Mobility Training for Individuals who are Visually Impaired 3 cr.

Concepts and techniques involved in orientation, mobility, and daily living skills for individuals with a visual impairment.

EDSP 4990 Special Topics in Special Education and Habilitative Services 3 cr.

Prerequisite: consent of the department. Topics will vary from semester to semester. This course may be repeated once for credit.

EDSP 5010 Introduction Instructional Issues for Students with Severe Disabilities 3 cr.

Examination of key issues related to the design, implementation, and evaluation of effective educational services for learners with severe disabilities. Emphasis on population characteristics, current service delivery issues, legislation and litigation, initial instructional design strategies, and student level instructional issues. Candidates also are introduced to professional development strategies which will be continued throughout the program of study. Candidates must complete a professional development plan through participation in a field experience cohort as a component of this course.

EDSP 5020 Initial Issues in Assessment , Instruction & Evaluation for Students with Mild/Moderate Disabilities 3 cr.

This course focuses on the initial study and application of recommended practices for teaching students with mild/moderate disabilities. Candidates will participate in field experiences at school sites and generate artifacts to document performance of required competencies. Available for graduate credit only.

EDSP 5060 Behavior Modification in Applied Settings 3 cr.

The study of and use of behavior modification techniques in applied settings. In conjunction with coursework students must complete a behavior change project in an applied setting.

EDSP 5420 Foundations in Deaf Education 3 cr.

The physiological, psychological, historical, and sociological and cultural aspects of deafness and hearing loss.

EDSP 5440 Sign Language I 3 cr.

An introduction to sign language and fingerspelling. Receptive and expressive sign language skills will be emphasized with specific focus on the ability to participate in functional communication situational. An overview of the variety of sign systems used in educational settings will be presented.

EDSP 5450 Sign Language II 3

cr.

Prerequisite: EDSP 4440. A course designed to develop both receptive and expressive fluency in Sign Language(s) according to the needs of the individuals in the class.

EDSP 5510 Introduction to the Gifted and Talented 3

cr.

Characteristics, identification, needs, teacher qualifications, and organizational patterns for the gifted and talented.

EDSP 5775 Tests and Measurements for Exceptional Individuals 3

cr.

Definition and terminology in tests and measurements as employed with exceptional individuals. Description, analysis, and interpretation of various formal and informal evaluation instruments and practices.

EDSP 5776 Practicum in Tests and Measurements for Individuals with Exceptionalities 3 cr.

Prerequisite: EDSP 4775. Conducted under the supervision of university personnel. Required activities include exposure to and experience with informal testing, use of formal evaluation results to generate Individual Education Plans (IEP's), and participation in IEP conferences.

EDSP 5810 Structure and Foundation of the Eye 3 cr.

Designed to provide an orientation to the parts of the eye and their functions; abnormalities and conditions that result in varying degrees of visual loss; and general considerations which these losses require in educational programming.

EDSP 5820 Introduction to Braille 3 cr.

Mastery of the English Braille Code Grade II (Literacy Braille Format); emphasis will be placed on transcribing through the visual modality.

EDSP 5830 Orientation and Mobility Training for Individuals who are Visually Impaired 3 cr.

Concepts and techniques involved in orientation, mobility, and daily living skills for individuals with a visual impairment.

EDSP 5990 Special Topics in Special Education and Habilitative Services 3 cr.

Prerequisite: consent of the department. Topics will vary from semester to semester. This course may be repeated once for credit.

EDSP 6000 Communication and Literacy Instruction for Students with Significant Disabilities 3 cr.

Prerequisite: Admission to Graduate Alternate Certification program in Special Education-significant disabilities or consent of department. A study of assessment and instructional strategies to teach nonsymbolic communication, prelanguage/language and literacy skills. Design of alternative and augmentative communication systems for learners with severe disabilities. Emphasis on strategies to increase meaningful communication and literacy opportunities across multiple partners, situations and settings.

EDSP 6010 Strategies for Managing Group Behaviors of Exceptional Populations 3 cr.

Effective strategies for group and whole school management with an emphasis on exceptional populations.

EDSP 6030 Health and Physical Considerations for Individuals with Severe Disabilities 3 cr.

An overview of educational considerations for students with special needs related to physical disabilities and/or health care. Emphasis on adaptation of curriculum and setting to meet the identified health and safety needs of learners with physical and multiple disabilities. Overview of positioning and handling techniques as well as safety and health care procedures including suctioning, seizure management, and gastrostomy tube feeding. Emphasis on instructional techniques and modifications related to presenting physical and health needs.

EDSP 6040 Intermediate Instructional Issues for Students with Severe Disabilities 3 cr.

Prerequisites: EDSP 4010G. Continued examination of key issues related to the design, implementation, and evaluation of effective educational services for learners with severe disabilities. Emphasis on curriculum design, effective instructional strategies, and classroom level instructional issues. Students must complete a professional development plan through participation in a field experience cohort as a component of this course.

EDSP 6050 Advanced Instructional Issues for Student with Severe Disabilities 3 cr.

Prerequisites: EDSP 6040. Continued examination of key issues related to design, implementation, and evaluation of effective educational services for learners with severe disabilities. Emphasis on advanced instructional issues including: meeting the needs of special populations, making data-based decisions, addressing building level instructional issues, and adjusting existing strategies to improve their effectiveness. Students must complete a professional development plan through participation in a field experience cohort as a component of this course.

EDSP 6060 Advanced Applied Behavior Analysis 3 cr.

Prerequisite: EDSP 4060 or consent of the department. Study of applied behavior analysis and single subject research designs to implement educational and habilitative programs in applied settings. Two hours of lecture and two hours of laboratory.

EDSP 6085 Foundations in Early Childhood Education and Early Intervention 3 cr.

Course includes the study of typical and atypical development during the first five years of life. Included is an overview of assessment, curriculum, and intervention models appropriate for young children with disabilities and their families.

EDSP 6090 Strengthening Family and Community Partnerships 3 cr.

Examination of the impact of individuals with significant disabilities on the family. Emphasis on techniques for involving family and community resources in the design, delivery, and evaluation of education/intervention services.

EDSP 6210 Effective Instruction and Support Strategies for Individuals with Autism Spectrum Disorders - I 3 cr.

An exploration of how the diagnosis of autism is established a review of current research and a consideration of the management of people with autism in schools and in the community.

EDSP 6220 Effective Instruction and Support Strategies for Individuals with Autism Spectrum Disorders - II 3 cr.

Prerequisite: EDSP 6210 or consent of department. Study and application of evidence based strategies to implement and evaluate effective educational programs for individuals with Autism Spectrum Disorder. This course requires application in field settings.

EDSP 6420 Educational Audiology 3 cr.

The application of current audiological technology and techniques to deaf education and speech therapy for the deaf. A basic course in audiology for teachers in all areas of Special Education, but particularly for those in deaf education, assessment, and supervision of Special Education.

EDSP 6440 Language Development and Instructional Strategies for Deaf and Hard of Hearing Child 3 cr.

A survey of language development focusing on linguistic principles in language acquisition of hearing and of deaf and hard of hearing children. Linguistic structural attributes of English and American Sign Language will be presented as well as a review of current strategies of language assessment and instruction for deaf and hard of hearing students.







EDSP 6982 Independent Study in Special Education and Habilitative Services 1  
min. cr. - 3 max. cr.

Prerequisite: consent of the department and major professor. Investigations of pertinent problems under the direction of a graduate faculty member. This course may be repeated but total credit may not exceed six semester hours. Section number will correspond with credit to be earned.

EDSP 6985 Internship in Special Education and Habilitative Services 3 cr.

Prerequisite: consent of the department. Assignment to a variety of educational clinical and service settings that are concerned with the diagnosis remediation and/or treatment of individuals with exceptional needs.

EDSP 6990 Selected Topics in Special Education and Habilitative Services 1 min. cr. - 3 max. cr.

Topic will vary from semester to semester. Section number will correspond with the credit hours to be earned. Course may be repeated for a maximum of six semester hours within particular degree program.

EDSP 7000 Thesis Research 1  
min. cr. - 9 max. cr.

To be repeated for credit until thesis is accepted. Section number will correspond with credit to be earned.

EDSP 7010 Introductory Doctoral Seminar: Leadership Roles in Special Education and Habilitative Services 3 cr.

Prerequisite: doctoral student standing in the Department of Special Education and Habilitative Services or consent of department. An initial study of the roles and issues related to personnel preparation research and systems intervention in the field of special education and habilitative services.

EDSP 7030 Advanced Doctoral Seminar: Leadership Roles in Special Education and Habilitative Services 3 cr.

Prerequisites: EDSP 7010, 7015, 7020, and 7025 and doctoral student standing in the Department of Special Education and Habilitative Service or consent of the department. Advanced study of the roles and issues related to personnel preparation, research, and systems intervention in the field of special education and habilitative services.

EDSP 7040 Examination or Thesis Only 0  
cr.

No credit. Open to students in a thesis program who have only (other than application for degree) the final typing and acceptance by the Graduate School of their thesis or dissertation or to students in a non-thesis program who have only (other than application for degree) to pass the final examination to complete graduation requirements.

EDSP 7050 Dissertation Research 1  
min. cr. - 9 max. cr.

Offered each semester. Prerequisite: approval by the candidate's graduate committee. To be repeated for credit until the dissertation is accepted. Section number will correspond with credit to be earned.



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## Urban Studies

- |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                              |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|-------|
| URBN 1000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Introduction to Cities                       | 3 cr. |
| This course is an introduction to contemporary cities. It examines the social, technological, political, aesthetics, economic and environmental forces that have shaped urban environments. It also discusses how different spatial forms and functions reflect these forces.                                                                                                                                                                                                                                                                                                                               |                                              |       |
| URBN 2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | The New Orleans Region                       | 3 cr. |
| This course introduces the social, cultural, economic, and political trends that shaped the New Orleans region.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                              |       |
| URBN 2100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Globalization and Mobility                   | 3 cr. |
| The purpose of this course is to explore the influence of the movement of people and freight on globalization in local, regional, and state economic development in the United States. Mobility and economic development in developing countries will also be considered. Part of the course will examine globalization and part will examine economic development strategies that communities can take to address the mobility challenges and opportunities created by globalization. Export promotion, attracting foreign direct investment, outsourcing, and immigration are some of the topics covered. |                                              |       |
| URBN 2890                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Special Topics in Urban Studies and Planning | 3 cr. |
| A lecture, lecture-laboratory, fieldwork, or seminar format will be used to discuss special topics in Urban Studies and Planning. Topics vary by semester. May be taken up to 3 times for a total of 9 credit hours.                                                                                                                                                                                                                                                                                                                                                                                        |                                              |       |
| URBN 2999                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Public Service                               | 1 cr. |
| Department consent required. Participation in an on-going public service project as an unpaid volunteer to learn about service work. Participants are expected to contribute an average of three hours per week at times mutually agreeable to the individual and the organization. Membership in the UNO Honors Program required. Offered each semester.                                                                                                                                                                                                                                                   |                                              |       |
| URBN 3002                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Introduction to Urban Studies                | 3 cr. |
| A multidisciplinary introduction to urban studies which examines classic arguments and recent discourses on the urban processes and urban life. North American cities will be examined through social sciences, environmental studies, architecture and design, public policy and urban planning.                                                                                                                                                                                                                                                                                                           |                                              |       |
| URBN 3150                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | The Suburbs and Car Culture                  | 3 cr. |
| This course examines suburbanization as part of the economic and social process of urbanization and as a defining part of the American cultural landscape. It explores the many influential forces that shaped the suburbs, including car use as a fundamental dimension of suburban life, the experiences of people living in the suburbs, and how the suburbs and car culture have been represented in film, television, and news media. This course also examines contemporary trends in suburban development in the U.S. and in countries around the world.                                             |                                              |       |
| URBN 3710                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Fundamentals of Urban Design                 | 3 cr. |
| This course provides a combination of lectures, illustrations and hands-on project development opportunities in the field of design. It is basic in nature, tailored to the undergraduate curriculum and promotes the analysis and understanding of urban design issues and projects.                                                                                                                                                                                                                                                                                                                       |                                              |       |

URBN 3998	Urban Studies and Planning Internship	3 cr.
Consent of department required. Each semester the department makes available a limited number of planning internships within local government, non-profit organizations and private sector companies in the metropolitan area. Internships provide the opportunity for students to learn about urban studies and planning from the perspective of participating organizations. Interns may be placed during the fall, spring or summer semesters. May be taken two times for a maximum of six credit hours.		
URBN 4002	The Shape of the City	3 cr.
The course focuses on those forces which have impacted and shaped major United States cities. Comparisons between New Orleans and other major cities are drawn.		
URBN 4003	The Post World War II City	3 cr.
This course is a survey of some of the major structural and fiscal changes that have impacted the post-war American city.		
URBN 4150	Planning for Hazards	3 cr.
This course examines and analyzes the occurrence, magnitude, and distribution of a broad variety of hazards and discusses appropriate public policy responses in order to protect public safety and to reduce physical and economic damage.		
URBN 4670	Grantwriting for Planners	3 cr.
This course will review all aspects of writing grants for public funding through federal, state and local governments and for private funding from corporations, foundations and non-profit organizations. Techniques of grantwriting including grant application preparation, project research, funding authority backgrounds, legal requirements, financial projections and project management will be reviewed. Specific tools such as letters of intent, request for proposals, request for qualifications and public bid responses will be covered in this course along with follow-through aspects of project management, project audits and project scheduling.		
URBN 4800	Studies in Special Urban Problems	3 cr.
This course is a study of urbanization, the city as a social and cultural environment and the social problems of cities. Topics vary by semester. May be taken up to 3 times for a total of 9 credit hours.		
URBN 4810	Environmental Justice in Urban Environments	3 cr.
This course examines the treatment of all groups in the US with respect to benefits and burdens from the development, implementation and enforcement of environmental laws, regulations and processes. Particular emphasis is given to the problems of the disproportionate siting of hazardous waste treatment, storage, disposal, and recycling facilities in poor and minority neighborhoods.		
URBN 4900	Independent Study	3 cr.
Department consent required. Independent research under the direction of a designated member of the faculty. May be taken 2 times for a maximum of 6 credit hours. Offered each semester.		
URBN 5002	The Shape of the City	3 cr.
The course focuses on those forces which have impacted and shaped major United States cities. Comparisons between New Orleans and other major cities are drawn.		
URBN 5003	The Post World War II City	3 cr.
This course is a survey of some of the major structural and fiscal changes that have impacted the post-war American city.		
URBN 5150	Planning for Hazards	3 cr.
This course examines and analyzes the occurrence, magnitude, and distribution of a broad variety of hazards and discusses appropriate public policy responses in order to protect public safety and to reduce physical and economic damage.		
URBN 5603	Research in New Orleans History	3 cr.
Departmental consent required. A detailed survey of qualitative research techniques, their application to local and urban history, and the preparation of a written project based on primary research in New Orleans history.		
URBN 5670	Grantwriting for Planners	3 cr.
This course will review all aspects of writing grants for public funding through federal, state and local governments		

and for private funding from corporations, foundations and non-profit organizations. Techniques of grantwriting including grant application preparation, project research, funding authority backgrounds, legal requirements, financial projections and project management will be reviewed. Specific tools such as letters of intent, request for proposals, request for qualifications and public bid responses will be covered in this course along with follow-through aspects of project management, project audits and project scheduling.

URBN 5800      Studies in Special Urban Problems      3 cr.

This course is a study of urbanization, the city as a social and cultural environment and the social problems of cities. Topics vary by semester. May be taken up to 3 times for a total of 9 credit hours.

URBN 5810      Environmental Justice in Urban Environments      3 cr.

This course examines the treatment of all groups in the US with respect to benefits and burdens from the development, implementation and enforcement of environmental laws, regulations and processes. Particular emphasis is given to the problems of the disproportionate siting of hazardous waste treatment, storage, disposal, and recycling facilities in poor and minority neighborhoods.

URBN 6000      Seminal Research in Urban Studies      3 cr.

Department consent required. This course provides students with an in-depth understanding of a particular facet of the interdisciplinary field of urban studies. It will do so by requiring the students to critically evaluate seminal works in urban studies. Topics vary by semester. May be taken additional times for credit as topics change.

URBN 6001      Research Methods      3 cr.

Prerequisites: None. This course will provide students with an understanding of the research process, research methodologies, and the appropriate application of different research approaches. In addition, students will learn how to evaluate the strength of research findings based on the methods used by the researcher. Topics covered include research design, conceptualization, measurement, sampling, data collection, and research ethics.

URBN 6005      Statistics for Urban Analysis      3 cr.

Prerequisite: Undergraduate statistics course. Department consent required. A course in the gathering, structuring, exploration, and analysis of government and private data scores pertaining to American and international urbanization.

URBN 6165      Urban Public Policy Analysis      3 cr.

Department consent required. A seminar on cost-benefit analysis as applied to decisions of public policy (especially with regard to alternative public projects and programs). Subject matter will include traditional cost-benefit analysis, including notions of present value, externalities, and secondary effects; and extensions of cost-benefit analysis such as the planning balance sheet, goals achievement matrix, and social indicator analysis.

URBN 6510      Urban-Rural Issues in Developing Countries      3 cr.

This seminar will explore the relationship between urbanization and the development process, with primary emphasis on the ways in which the content and outcomes of public policies affect the distribution of population and wealth. Issues to be covered include regional imbalances, migration, labor mobility, and housing.

URBN 6900      Independent Study      3 cr.

Department consent required. Offered each semester. Independent research in the graduate student's area of specialization under the direction of a designated member of the graduate faculty. May be taken two times for credit for a maximum of six credit hours.

URBN 7000      Thesis Research      1 min. cr. - 9 max. cr.

Department consent required. Offered each semester. May be taken additional times for credit until thesis is accepted.

URBN 7040      Examination or Thesis Only No credit      0 cr.

Department consent required. Open to students who have only the final editing and acceptance of their thesis or to students in a non-thesis program who have only to pass the final examination to complete graduation requirements.



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## Urban and Regional Planning

MURP 4005 Introduction to Neighborhood Planning 3 cr.

This class introduces students to the underlying processes of neighborhood-based planning and explores the role of the neighborhoods in the urban environment. Through class lectures, discussion of assigned readings, and presentations of planning initiatives undertaken in a variety of New Orleans' neighborhoods, students will explore the components of neighborhood development, change, and planning.

MURP 4010 Introduction to Historic Preservation 3 cr.

The introduction to Historic Preservation provides a broad overview of the historical, architectural, political, social economic, administrative and legal aspects of historic preservation.

MURP 4020 Historic Houses and Districts 3 cr.

This course explores the variety of resources available for the restoration or renovation of historic properties and the most effective for employing these resources. Beginning with the assessment of a property's current condition, students learn to recognize clues to a building's past, to understand how a plan for renovation or restoration is developed, and to evaluate a successful finished project. The class includes guest speakers and site visits to projects in varying stages of re-development.

MURP 4030 Social Policy Planning 3 cr.

Fall semester. Prerequisite: consent of school. The course will investigate operational approaches to social planning. Problem conceptualization will be emphasized and methods to express and satisfy human needs in planning discussed.

MURP 4050 Urban Land Use Planning and Plan Making 3 cr.

Prerequisite: Concurrent enrollment in MURP 4051. This course provides students with an understanding of land use planning principles, methods and formats. In addition, students will gain the skills needed to create an effective and appropriate land use plan for a small city. Topics include: how to assess the strengths and weaknesses of various land use plan-making methods and plan formats; how to describe existing and emerging community conditions; how to formulate goals; how to design a future urban regional form that meets community objectives; and how to formulate a plan in a professional manner.

MURP 4051 Urban Land Use Planning and Plan Making Laboratory 1 cr.

Prerequisite: Concurrent enrollment in MURP 4050. One hour of laboratory each week to accompany MURP 4050. Practical application of the principles, processes and methods of land use planning. Students will complete a land use plan for a hypothetical small city by the end of the course.

MURP 4061 Introductory Transportation Planning 3 cr.

This course provides an introduction to the practice of urban transportation planning. The course concentrates

primarily on providing a general over-view of the transportation planning process. Emphasis is placed on specific elements of that process and specific components of the urban transportation system.

MURP 4062 Applied Techniques for Transportation Planners 3  
cr.

This course is an overview of the tools used by transportation planners for decision making. The course covers the use of transportation data and analysis, transportation demand modeling, land use and travel behavior, transit system planning, bicycle and pedestrian planning and safety, transportation finance, evacuation planning, the use of information technology in transportation planning, and project implementation and evaluation.

MURP 4063 Land Use and Transportation  
Planning 3 cr.

This course examines the relationship between transportation and land use. It covers the planning and policy techniques used to encourage sustainable and balanced multimodal transportation systems in the U.S. and around the world. The specific topics covered in this course include: trends in travel behavior, smart growth and sustainable development, public transportation, walking, cycling, automobile dependence, transit-oriented development, real estate development, land use planning, and public policy.

MURP 4071 Historic Preservation Law  
3 cr.

This course examines the evolution of Historic preservation law in the United States. Emphasis is placed on policies, court decisions and laws that impact the cultural and historic resources of Louisiana and particularly the City of New Orleans. This course analyzes the legal techniques and strategies that developers and preservationists have used to achieve their objectives. Enrollment does not require prior knowledge of the law.

MURP 4081 Information Technology for the Planning Profession 3  
cr.

This course will provide an overview of computer-based technology widely used by planning professionals in demographic and land use analysis, environmental planning and development impact analysis. Students will be introduced to the appropriate application of information technology tools in the planning profession and will gain applied planning experience using current spatial software.

MURP 4085 Visual Technology and Digital City Planning 3  
cr.

This class will introduce students to the various ways that local governments and cities use information technologies to address such critical issues as improving service delivery, policy making and planning. Utilizing the controlled "hands-on" environment of a hypothetical city, students will explore the technical operations employing information technologies to build and use information systems effectively in local government. Students who do not have any previous experience with GIS should complete an ARC GIS tutorial by the end of the 3rd week of class. GEOG 4805 is recommended but not required.

MURP 4140 Environmental Planning 3  
cr.

Spring semester. This course focuses on the impact of public and private planning, policies, and programs on the natural and man-made environment of our urban regions. The subject matter includes environmental law, environmental impact statements, environmental politics, land use policy, air and water resources, energy policy, and solid wastes.

MURP 4145 Coastal Zone Planning and Administration 3  
cr.

Coastal zones are valuable natural resource areas that are fragile, in great demand, and in danger of system collapse. This course develops the concepts of coastal resources, examines the many strategies for resource management and administration, and analyzes guidelines and standards for planning activities in the coastal zone.

MURP 4200 American City Planning 3  
cr.

Fall semester. Prerequisite: consent of school. This course will deal with the evolution of urban and regional planning in the United States with particular focus on the last century. Emphasis will be placed on specific issues,

programs, projects, and personalities instrumental in shaping the form of the American landscape and cityscape and in developing urban planning as a profession.

MURP 4500 Energy Planning for Cities and Regions 3  
cr.

Prerequisite: consent of school. An introduction to national and Louisiana energy demands, resources, impacts, technologies, and policies especially as related to plan formulation in cities and regions. Particular emphasis is given to the energy relationship between New Orleans and the Louisiana coastal ecosystem.

MURP 4710 Urbanism and Urban Design 3  
cr.

Offered each semester. Prerequisite: consent of school. This course will deal with the history of urban design emerging methodologies analytical frameworks instruments and strategies the decision-making processes in urban design and the roles of urban designers.

MURP 4750 Design and Management of Urban Parks 3 cr.

This course will explore the essential elements of planning, design and management of urban parks and public spaces. A major focus of this course will be on how parks and open spaces contribute to the quality of life in communities and how they can help to promote revitalization efforts. Research methods to determine community needs, financing mechanisms, management strategies and evaluation techniques will be discussed along with design examples from a variety of U.S. and Canadian parks.

MURP 4800 Studies in Special Urban Problems 3  
cr.

This course is a study of urbanization, the city as a social and cultural environment and the social problems of cities. Topics vary by semester. May be taken up to 3 times for a total of 9 credit hours.

MURP 4820 Tourism for Urban and Regional Planners 3 cr.

An exploration of the international travel and tourism industry, focusing on the post-1950 period. The course will cover the rapid growth of tourism and its economic, social, cultural, and environmental impacts on countries, regions, and cities, with a particular emphasis on the role planners and policymakers play in promoting and regulating the industry.

MURP 4900 Independent Study 3  
cr.

Department consent required. Independent research under the direction of a designated member of the faculty. May be taken 2 times for a maximum of 6 credit hours. Offered each semester.

MURP 5005 Introduction to Neighborhood Planning 3 cr.

This class introduces students to the underlying processes of neighborhood-based planning and explores the role of the neighborhoods in the urban environment. Through class lectures, discussion of assigned readings, and presentations of planning initiatives undertaken in a variety of New Orleans' neighborhoods, students will explore the components of neighborhood development, change, and planning.

MURP 5010 Introduction to Historic Preservation 3  
cr.

The introduction to Historic Preservation provides a broad overview of the historical, architectural, political, social economic, administrative and legal aspects of historic preservation.

MURP 5020 Historic Houses and Districts 3  
cr.

This course explores the variety of resources available for the restoration or renovation of historic properties and the most effective for employing these resources. Beginning with the assessment of a property's current condition, students learn to recognize clues to a building's past, to understand how a plan for renovation or restoration is developed, and to evaluate a successful finished project. The class includes guest speakers and site visits to projects in varying stages of re-development.

MURP 5030 Social Policy Planning 3  
cr.

Fall semester. Prerequisite: consent of school. The course will investigate operational approaches to social

planning. Problem conceptualization will be emphasized and methods to express and satisfy human needs in planning discussed.

MURP 5050 Urban Land Use Planning and Plan Making 3 cr.

Prerequisite: Concurrent enrollment in MURP 4051. This course provides students with an understanding of land use planning principles, methods and formats. In addition, students will gain the skills needed to create an effective and appropriate land use plan for a small city. Topics include: how to assess the strengths and weaknesses of various land use plan-making methods and plan formats; how to describe existing and emerging community conditions; how to formulate goals; how to design a future urban regional form that meets community objectives; and how to formulate a plan in a professional manner.

MURP 5051 Urban Land Use Planning and Plan Making Laboratory 1 cr.

Prerequisite: Concurrent enrollment in MURP 4050. One hour of laboratory each week to accompany MURP 4050. Practical application of the principles, processes and methods of land use planning. Students will complete a land use plan for a hypothetical small city by the end of the course.

MURP 5061 Introductory Transportation Planning 3 cr.

This course provides an introduction to the practice of urban transportation planning. The course concentrates primarily on providing a general over-view of the transportation planning process. Emphasis is placed on specific elements of that process and specific components of the urban transportation system.

MURP 5062 Applied Techniques for Transportation Planners 3 cr.

This course is an overview of the tools used by transportation planners for decision making. The course covers the use of transportation data and analysis, transportation demand modeling, land use and travel behavior, transit system planning, bicycle and pedestrian planning and safety, transportation finance, evacuation planning, the use of information technology in transportation planning, and project implementation and evaluation.

MURP 5063 Land Use and Transportation Planning 3 cr.

This course examines the relationship between transportation and land use. It covers the planning and policy techniques used to encourage sustainable and balanced multimodal transportation systems in the U.S. and around the world. The specific topics covered in this course include: trends in travel behavior, smart growth and sustainable development, public transportation, walking, cycling, automobile dependence, transit-oriented development, real estate development, land use planning, and public policy.

MURP 5070 Development Impact Assessment 3 cr.

Prerequisite: MURP 4600 or consent of department. This course reviews the major techniques used in evaluating the socioeconomic and fiscal impacts of land development projects on communities. Case studies will be used for illustration.

MURP 5071 Historic Preservation Law 3 cr.

This course examines the evolution of Historic preservation law in the United States. Emphasis is placed on policies, court decisions and laws that impact the cultural and historic resources of Louisiana and particularly the City of New Orleans. This course analyzes the legal techniques and strategies that developers and preservationists have used to achieve their objectives. Enrollment does not require prior knowledge of the law.

MURP 5081 Information Technology for the Planning Profession 3 cr.

This course will provide an overview of computer-based technology widely used by planning professionals in demographic and land use analysis, environmental planning and development impact analysis. Students will be introduced to the appropriate application of information technology tools in the planning profession and will gain applied planning experience using current spatial software.

MURP 5085 Visual Technology and Digital City Planning 3 cr.

This class will introduce students to the various ways that local governments and cities use information technologies to address such critical issues as improving service delivery, policy making and planning. Utilizing

the controlled "hands-on" environment of a hypothetical city, students will explore the technical operations employing information technologies to build and use information systems effectively in local government. Students who do not have any previous experience with GIS should complete an ARC GIS tutorial by the end of the 3rd week of class. GEOG 4805 is recommended but not required.

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|-------|
| MURP 5140                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Environmental Planning                   | 3 cr. |
| Spring semester. This course focuses on the impact of public and private planning, policies, and programs on the natural and man-made environment of our urban regions. The subject matter includes environmental law, environmental impact statements, environmental politics, land use policy, air and water resources, energy policy, and solid wastes.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                          |       |
| MURP 5145                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Coastal Zone Planning and Administration | 3 cr. |
| Coastal zones are valuable natural resource areas that are fragile, in great demand, and in danger of system collapse. This course develops the concepts of coastal resources, examines the many strategies for resource management and administration, and analyzes guidelines and standards for planning activities in the coastal zone.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                          |       |
| MURP 5200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | American City Planning                   | 3 cr. |
| Fall semester. Prerequisite: consent of school. This course will deal with the evolution of urban and regional planning in the United States with particular focus on the last century. Emphasis will be placed on specific issues, programs, projects, and personalities instrumental in shaping the form of the American landscape and cityscape and in developing urban planning as a profession.                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                          |       |
| MURP 5500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Energy Planning for Cities and Regions   | 3 cr. |
| Prerequisite: consent of school. An introduction to national and Louisiana energy demands, resources, impacts, technologies, and policies especially as related to plan formulation in cities and regions. Particular emphasis is given to the energy relationship between New Orleans and the Louisiana coastal ecosystem.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                          |       |
| MURP 5660                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Negotiation and Mediation for Planners   | 3 cr. |
| Prerequisite: Consent of the School of Urban Planning & Regional Studies. This course uses theory and gaming materials to build negotiation and mediation skills. The particular lessons covered include: the importance of assessing one's Best Alternative to a Negotiated Agreement (BATNA); the preconditions for collaborative problem solving; the application of utility theory to negotiation analysis; the significance of coalition building; the value of packaging options that trade across issues; criteria for evaluating negotiation outcomes; strategies for dealing with uncertainty and risk; the role of the media in public decision making; and the responsibility of facilitators, mediators, and dispute resolves. These lessons ought to be directly transferable to a student's current or future planning practice. |                                          |       |
| MURP 5710                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Urbanism and Urban Design                | 3 cr. |
| Offered each semester. Prerequisite: consent of school. This course will deal with the history of urban design emerging methodologies analytical frameworks instruments and strategies the decision-making processes in urban design and the roles of urban designers.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                          |       |
| MURP 5750                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Design and Management of Urban Parks     | 3 cr. |
| This course will explore the essential elements of planning, design and management of urban parks and public spaces. A major focus of this course will be on how parks and open spaces contribute to the quality of life in communities and how they can help to promote revitalization efforts. Research methods to determine community needs, financing mechanisms, management strategies and evaluation techniques will be discussed along with design examples from a variety of U.S. and Canadian parks.                                                                                                                                                                                                                                                                                                                                  |                                          |       |
| MURP 5800                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Studies in Special Urban Problems        | 3 cr. |
| This course is a study of urbanization, the city as a social and cultural environment and the social problems of cities. Topics vary by semester. May be taken up to 3 times for a total of 9 credit hours.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                          |       |
| MURP 5820                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Tourism for Urban and Regional Planners  | 3 cr. |

An exploration of the international travel and tourism industry, focusing on the post-1950 period. The course will cover the rapid growth of tourism and its economic, social, cultural, and environmental impacts on countries, regions, and cities, with a particular emphasis on the role planners and policymakers play in promoting and regulating the industry.

MURP 6010      Planning for Neighborhoods and Smaller Communities      3  
cr.

This course examines the forces that have shaped America's neighborhoods and smaller communities, the unique problems that face them, and planning strategies available for their resolution.

MURP 6020      Analytic Methods for Planners  
3 cr.

Department consent required. An introduction to the application of quantitative analytical methods used by professional planners and policy makers in urban and regional contexts. Topics include: population estimation and forecasting, economic forecasting, locational analysis, forecasting for transportation, housing, shopping, and recreational facilities, as well as project evaluation and monitoring. An emphasis will be placed on actual problem solving rather than an understanding of the pure mathematical basis of the techniques.

MURP 6051      Housing and Community Development      3 cr.

This course is designed to give the student an introduction to the complex areas of housing and community development. Emphasis will be placed on examination of the federal role and the local response in implementing programs.

MURP 6061      Transportation Planning      3 cr.

A seminar on the quantitative aspects of transportation planning. Included in the course material will be: transportation network concepts, minimum path through network algorithms, optimal network problems, trip distribution (gravity) models, and urban land use models.

MURP 6071      Zoning and Land Use Regulation      3 cr.

Department consent required. The course is an introduction to the legal environment in which planners and urban professionals must operate. Using the case method and analytic examples, the seminar will concentrate on acquainting the beginning urban professional with such concepts as zoning, eminent domain, subdivision regulation, planned-unit development (PUD), and the law of nuisance.

MURP 6100      Transit Planning and Management      3 cr.

The purpose of this course is to explore what makes transit successful, why it matters and what role planning and management play in delivering its success. The course is designed to help students develop a comprehensive understanding of different aspects of transit planning and management. Students will learn about macro issues such as how urban form and technologies have influenced the design and implementation of transit services and vice versa. The course addresses the practicalities-of transit of what works and what doesn't-to develop a practical understanding of transit service design and implementation. An important element of the class is to gain an understanding of transit as a service delivery model. Managing effectively is an important strategy for all types of organizations but particularly those whose funding depends on taxpayers.

MURP 6121      Methods of Urban and Regional Analysis II      3 cr.

Prerequisite: MURP 6020 or consent of school. A seminar on application of advanced quantitative analytic methods in regional and urban planning. The following topics will be presented: industrial complex analysis, regional and interregional linear programming, gravity models, game theory, concepts of regional development and regional conflict and cooperation analysis.

MURP 6130      Urban Development: A Social Perspective      3 cr.

Prerequisite: MURP 4030/G or consent of the Department. The emphasis of this course is on current urban problems in urban development and the planning methods and strategies used to meet the needs of diverse socio-economic groups. A single problem focus will be developed and possible solutions developed.

MURP 6140      Citizen Participation      3  
cr.

This seminar will explore the operational development of citizen participation and its inclusion as a vital element in the urban planning process. Emphasis will be placed on decentralization and participation in the design and delivery of urban public services at various levels of responsibility. Specific programs such as Community

Development and neighborhood service units will be covered. Policy implications for local officials and urban planners will be discussed in an operational context.

MURP 6175      Development Finance for Planners      3 cr.

This course provides students with a working knowledge of real estate development. As a planning course, the emphasis is on the role of the public sector in making development projects that serve public sector goals financially feasible. The focus is on development projects in underdeveloped or distressed communities. The course begins by acquainting students with the real estate development industry and introducing students to basic financial concepts and tools. It then provides an understanding of basic financial analysis for real estate development, instructs students how to develop and read development budgets and operating pro forma, and examines different sources of gap financing for community economic development.

MURP 6180      Site Planning      3 cr.

Prerequisite: MURP 4710/G, equivalent design course or Department consent. This will examine the fundamentals of site planning and analysis including environmental considerations as related to the design process, and general factors affecting building location and orientation. It will explore the specific site requirements of different types of land uses including density, visual elements, buffers and parking requirements. Students will complete small and large scale projects involving the integration of numerous site elements for workable designs.

MURP 6401      Urban Public Works Planning      3 cr.

Department consent required. An introduction to the public works functions in the urban environment. The course will examine the organization and operation of urban public works activities. Case studies of actual public works problems will be used to supplement lecture material.

MURP 6450      Local Economic Development Policy and Planning      3 cr.

Prerequisite: None. This course provides students with an understanding of the theories, processes, and tools of local economic development. In addition, the course presents the realities of local economic development as currently practiced in the U.S. cities. The course emphasizes economic theory with a sensitivity to the political environment in cities and regions. Theories of development and economics as well as analytical tools used by local professionals will be shown as critical elements of sound local economic development planning.

MURP 6500      Urban Planning Practice in Developing Nations      3 cr.

This course presents a study of urban and regional planning practice in developing countries. Urban development issues and planning paradigms will be discussed. Selected Less Developed Countries (LDC's) will be examined in detail.

MURP 6520      Comparative Planning and Urban Development: the Case of Industrialized Nations      3 cr.

This seminar will explore the processes and strategies adopted by industrialized nations in planning for the development of their urban areas. Policy formulation and program implementation will be stressed, particularly in the areas of housing, central city revitalization, growth controls, and labor mobility.

MURP 6601      Seminar: Urban Planning Models      3 cr.

Department consent required. This seminar will be an in-depth study of advanced concepts and techniques of urban planning.

MURP 6605      Seminar in Land Use Analysis      3 cr.

Department consent required. Intensive research into selected rural and/or urban land-use problems in their environmental and historical contexts. Course may be taken two times for a maximum of six credit hours.

MURP 6620      History, Theory, and Practice of Planning      3 cr.

Department consent required. The course provides students with a broad understanding of the history, theory, and practice of urban and regional planning. This seminar focuses on the historical development of the planning profession and planning theory, the various roles planners play in practice and the ethical dilemmas they face.

MURP 6650      Recreational Planning      3 cr.

This course deals with the impact of urbanization on the field of recreation. Recreation planning will be discussed in relationship to the overall comprehensive planning fabric specifically as it relates to the formulation of its major components, i.e., goals, needs, methodologies, surveying techniques, administration, financing, and site analysis.

- MURP 6720**      Practicum in Urban and Regional Planning      3 cr.  
 Department consent required. The course will focus on the applied aspects of the urban and regional planning profession. Project(s) will be identified and students will work as a team to complete the work. The goal is to develop a professional group report.
- MURP 6721**      Practicum in Urban and Regional Planning Finance Laboratory      1 cr.  
 Department consent required. This course provides advanced planning students in the housing and community economic development concentration the financial and analytical skills necessary to effectively engage their community clients and complete their client projects in MURP 6720 Practicum in Urban and Regional Planning. The course consists of six 2.5 hour laboratory sessions over the course of the semester prior to taking MURP 6720.
- MURP 6800**      MURP Planning Internship      3 cr.  
 Department consent required. Offered each semester. This course is designed to provide students in the Master of Urban and Regional Planning (MURP) program practical experience working in a professional planning environment. Through the internship students will practice and expand upon the skills they have developed in the program while gaining exposure to the wider planning environment, politics that surround planning decisions, and the needs of the client organization. Students will work under the supervision of an internship supervisor at the host organization and a MURP faculty advisor. May be taken two times for a maximum of six credit hours.
- MURP 6900**      Independent Study      3 cr.  
 Department consent required. Offered each semester. Independent research in the graduate student's area of specialization under the direction of a designated member of the graduate faculty. May be taken two times for credit for a maximum of six credit hours.
- MURP 7000**      Thesis Research      1 min.  
 cr. - 9 max. cr.  
 Department consent required. Offered each semester. May be taken additional times for credit until thesis is accepted.
- MURP 7040**      Examination or Thesis Only No credit      0 cr.  
 Department consent required. Open to students who have only the final editing and acceptance of their thesis or to students in a non-thesis program who have only to pass the final examination to complete graduation requirements.



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community problems locally and worldwide.

PADM 5221 Collaboration, Partnership and Coalition Building 3

cr.

A survey of the knowlege needed to create effective partnerships and collaboration among nonprofit leaders and with individuals and organizations in other sectors of the economy.

PADM 5222 Legal and Ethical Issues in the Nonprofit Sector 3

cr.

An introduction to key legal and ethical issues involved in organizing and leading nonprofit organizations.

PADM 5223 Financial Administration and Development for Nonprofit Organizations 3 cr.

AADM 5223 and PADM 5223 are cross enrolled. A summary of financial and accounting tools needed to build and diversify resources for nonprofit organizations and to manage their fiscal affairs.

PADM 5224 Leadership in Nonprofit Organizations 3

cr.

A review of established leadership theories and their applicability to local nonprofit leadership examples.

PADM 5800 Studies in Special Urban Problems 3

cr.

This course is a study of urbanization, the city as a social and cultural environment and the social problems of cities. Topics vary by semester. May be taken up to 3 times for a total of 9 credit hours.

PADM 5810 Environmental Justice in Urban Environments 3

cr.

This course examines the treatment of all groups in the US with respect to benefits and burdens from the development, implementation and enforcement of environmental laws, regulations and processes. Particular emphasis is given to the problems of the disproportionate siting of hazardous waste treatment, storage, disposal, and recycling facilities in poor and minority neighborhoods.

PADM 6001 Research Methods in Public Administration 3 cr.

A graduate introduction to research design and the application of selected quantitative and qualitative methods to problems typical of public and nonprofit sectors.

PADM 6010 The Profession of Public Administration 3 cr.

This course is a graduate-level introduction to the study of public administration. Public administration involves the "core activities" of government that are usually performed by highly trained professionals in specialized organizations. The course employs lecture, readings, case studies, discussion, and practical exercises to provide an overview of the profession of public administration, including its historical development, values, and issues.

PADM 6020 Bureaucracy and Democracy 3

cr.

Prerequisite: PADM 6010 The Profession of Public Administration. This course focuses on the relationship of the bureaucracy to its broader political environment and the many important questions related to the place of bureaucracy in a democratic society. It emphasizes the role of professional administrators in the policy process from the passage of laws to interpretation, rule making, implementation, accountability, and revision.

PADM 6110 Public Budgeting 3

cr.

The course will provide an overview of public budgeting in the United States. The course will combine both theory and practice. The course format will be primarily lecture/discussion, but all students will participate online as well. In addition to weekly readings in the text, various budget exercises and Blackboard discussion board assignments, students enrolled for graduate credit will prepare one brief research paper and act as team leaders for budget simulation exercises.

PADM 6130 U.S. Disaster Policy 3

cr.

This course familiarizes students with disaster policy within the United States, including the occurrence,

magnitude, and distribution of a broad variety of hazards, and discusses appropriate public policy responses in order to protect public safety and to reduce physical and economic damage.

PADM 6160      Law and Ethics of Public Administration      3  
cr.

This course will examine the legal and ethical context of administrative practice in the United States, including the legal and ethical constraints on the exercise of administrative discretion in the public sector and the relationship between professional and personal values and its consequences for public management.

PADM 6180      Human Resources Administration in the Public Sector      3  
cr.

This is a course for administrators who want a broad understanding of the function of human resources management in program and policy implementation. This course provides an overview of human resources management in public organizations (government and nonprofit) and introduces students to elements of personnel policies and practices that can be applied in a broad range of organizational settings.

PADM 6201      Policy Analysis and Program Evaluation      3 cr.

Prerequisite: URBN 6001 - Research Methods. An examination of techniques, procedures, and limitations of policy analysis and program evaluation. Topics covered include policy analysis, the planning and organizing of project evaluations, the writing of evaluation designs, evaluation methodologies, data collection and verification, analysis and interpretation of findings. The theme of the course is the necessity of accountability in public programs.

PADM 6300      Managing Change Public Organizations      3 cr.

Prerequisite: consent of department. A seminar on the ways in which public organizations approach and resist change. The theme is how planning, budgeting, and evaluation are used by administrators to bring about change.

PADM 6401      Administrative Behavior      3 cr.

A primary goal of public administrators should be assuring that the technical and ethical performance of public employees and the emerging service delivery are highly effective. This course is designed to help prepare public administrators accomplish this goal. It approaches public administration and management as a challenging enterprise that requires practitioners to demonstrate effective leadership, solve problems, motivate and monitor employee performance, resolve conflicts, and enhance interpersonal and organizational communication.

PADM 6410      Technology in Public Organizations      3 cr.

This course is a graduate-level introduction to the use and impact of technological systems in public and nonprofit organizations. It is designed to provide administrators with an understanding of the basic practical and normative issues raised by innovations in information technology. The course covers the major concepts and theories explaining the role of computers and related technologies in public and nonprofit organizations.

PADM 6501      Criminal Justice Administration      3

cr.

This course is designed to provide an overview of criminal justice administration and insight into court management in U.S. federal and state courts. Rather than focus on the law itself, and by extension the U.S. Supreme Court, this course concentrates on institutions and actors that constitute the criminal court system. The core of the course will be devoted to how criminal courts do business, the politics surrounding them, judicial policymaking, and court reforms.

PADM 6900      Independent Study      3 cr.

Department consent required. Offered each semester. Independent research in the graduate student's area of specialization under the direction of a designated member of the graduate faculty. May be taken two times for credit for a maximum of six credit hours.

PADM 6901      MPA Capstone I      3

cr.

Prerequisite: 24 hours of work toward the MPA degree including URBN 6001, Research Methods, and PADM 6201, Policy Analysis and Program Evaluation. Students who do not have significant public service experience should take this course in conjunction with their internship. This course is the first part of a two-semester sequence for students who are nearing the completion of their MPA degree and who choose a project instead of a thesis. The class is organized as a seminar in which students share their experiences and critique and help

each other work on projects. In Capstone I each student will produce a research design for the capstone project, including a thorough review and analysis of relevant literature.

PADM 6902      MPA Capstone II      3  
cr.

Prerequisite: 24 hours of work toward the MPA degree including URBN 6001, Research Methods, PADM 6201, Policy Analysis and Program Evaluation, and PADM 6901, Capstone I. This course is the second part of a two-semester sequence for students who are nearing the completion of their MPA degree and who choose a project instead of a thesis. The class is organized as a seminar in which students share their experiences and critique and help each other work on projects. Each student will complete and defend a project report before a committee of graduate faculty and at least one practitioner having substantial professional experience with the subject matter of the project.

PADM 7000      Thesis Research      1 min. cr.  
- 9 max. cr.

Department consent required. Offered each semester. May be taken additional times for credit until thesis is accepted.

PADM 7040      Examination or Thesis Only No credit      0 cr.

Department consent required. Open to students who have only the final editing and acceptance of their thesis or to students in a non-thesis program who have only to pass the final examination to complete graduation requirements.



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## Urban Studies - Doctorate

DURB 6803 Seminar in Urban History  
3 cr.

Intensive reading and research on urban, social, and cultural change. Focus will be on American, European, and/or Third World urban development, from the founding of initial settlements to the present day. Discussions, conferences, short reports, and essays will be required. May be repeated for credit.

DURB 6830 Urban  
Theory 3 cr.

Prerequisite: DURB 6850 or consent of Department. The purpose of the course is to expose students to theoretical perspectives that impact the discipline of urban studies. Students will examine a variety of disciplinary perspectives and methodological approaches. These disciplines will include anthropology, political science, geography, sociology, history, urban planning and economics. This course may be taken up to 2 times for a total of 6 credit hours.

DURB 6850 Seminar in Urban  
Studies 3 cr.

Departmental consent required. This course introduces graduate students to the history and evolution of the discipline of urban studies. It examines the research questions, research trends, methods, and theoretical constructs employed in urban studies. The course content is selected to examine the scope, depth and breadth of the field. Specific topics change vary by semester. This course may be taken up to 3 times for a total of 9 credit hours.

DURB 6900 Independent  
Study 3 cr.

Department consent required. Offered each semester. Independent research in the graduate student's area of specialization under the direction of a designated member of the graduate faculty. May be taken 8 times for a maximum of 24 credit hours with the approval of the Department.

DURB 7020 Research Design  
Seminar 3 cr.

Prerequisites: DURB 6850 and DURB 6830 or consent of Department. This course provides an in depth examination of research design and a variety of research methods. The course will focus on the interrelationships between epistemology, theory, particular methods, and research design.

DURB 7030 Research Design  
Practicum 3 cr.

Prerequisite: DURB 7020 or consent of Department. This course guides students through the development of their dissertation prospectus with the cooperation of their dissertation advisers.

DURB 7040 Examination or Thesis Only No credit  
0 cr.

Department consent required. Open to students in the Ph.D. in Urban Studies program who have only the final editing and acceptance by the Graduate School of their dissertations (other than application for degree).

DURB 7050      Dissertation Research  
min. cr. - 9 max. cr.

1

Department consent required. Preparation of dissertation by Ph.D. candidates under direction of major professor and dissertation committee. To be repeated for credit until dissertation is accepted.



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## Women's and Gender Studies

WGS 2010 Introduction to Women's Studies 3 cr.

An introduction to the social, historical, and cultural dimensions of women's role in society.

WGS 2090 Topics in Women's Studies 3 cr.

An open topics approach to the role of women. May be repeated once for credit.

WGS 3090 Internship in Women's Studies 3 cr.

Prerequisite: WGS/WS 2010 or consent of the Women's Studies internship supervisor. The intern is placed in a private or public agency in order to gain practical experience in the application of women's studies perspectives and methodologies. Interns usually work eight hours a week at times mutually agreeable to the individual and the agency. In addition, students must meet regularly with a faculty advisor and their work must be evaluated by both an agency supervisor and the faculty advisor.

WGS 3091 Independent Reading and Research in Women's and Gender Studies 1 cr.

Prerequisite: One course from the Women's and Gender Studies approved list and consent of the Director of Women's and Gender Studies. The individual student will be responsible for selection of the area of reading and research. Readings, conferences, and reports or a major research project will be assigned by a member of the Women's and Gender Studies faculty. In no case may a student register for WGS/WS 3091-93 for a total of more than six hours.

WGS 3092 Independent Reading and Research in Women's and Gender Studies 1 cr.

Prerequisite: One course from the Women's and Gender Studies approved list and consent of the Director of Women's and Gender Studies. The individual student will be responsible for selection of the area of reading and research. Readings, conferences, and reports or a major research project will be assigned by a member of the Women's and Gender Studies faculty. In no case may a student register for WGS/WS 3091-93 for a total of more than six hours.

WGS 3093 Independent Reading and Research in Women's and Gender Studies 1 cr.

Prerequisite: One course from the Women's and Gender Studies approved list and consent of the Director of Women's and Gender Studies. The individual student will be responsible for selection of the area of reading and research. Readings, conferences, and reports or a major research project will be assigned by a member of the Women's and Gender Studies faculty. In no case may a student register for WGS/WS 3091-93 for a total of more than six hours.

WGS 3095 Service Learning in Women's Studies 3 cr.

Prerequisite: WGS/WS 2010 or consent of the instructor. This service learning course combines classroom and community learning. All students will participate in projects at one designated community agency while using weekly class meetings to assess the connection between feminist theory and practice.

WGS 4070 Special Topics in Women, Literature, and Society 3 cr.

(WGS/WS 4070, ENGL 4070 and SOC 4070 are cross-listed) Prerequisite: ENGL 2378. A team-taught, interdisciplinary study of women in literature and society. Variable topics include women and crime, women and work, women and the family, women and religion. Can be taken 2 times for a maximum of 6 credit hours.

- WGS 4078      Researching Women, Gender and Sexuality      3 cr.  
 Prerequisite: WGS/WS 2010 or consent of instructor. An introduction to diverse quantitative and qualitative research methods used in contemporary feminist scholarship. Students will pursue individual projects based on archival collections, published articles, and other primary and secondary sources. The course will familiarize students with local archives and exhibits. Oral reports on research projects will satisfy the university's oral proficiency requirement.
- WGS 4080      Feminist Theory: Perspectives on Gender and Sexuality      3 cr.  
 Prerequisite: WGS/WS 2010 or consent of the instructor. This course interweaves social science and the humanities to examine an array of theoretical perspectives on gender relations and inequalities. We will discuss some of the major issues that have fostered movements for the women's rights, highlighting the relationship between theory and practice. Particular emphasis will be given to the diversity of women's voices and experiences cross-culturally, and to the intersections of gender, race/ethnicity, social class, and sexual orientation.
- WGS 4090      Variable Topics in Women's Studies      3 cr.  
 Prerequisite: Junior standing or consent of the instructor. Advanced study of women and gender. Topics vary from semester to semester. May be repeated once for credit, for a total of six credits.
- WGS 5070      Special Topics in Women, Literature, and Society      3 cr.  
 (WGS/WS 4070, ENGL 4070 and SOC 4070 are cross-listed) Prerequisite: ENGL 2378. A team-taught, interdisciplinary study of women in literature and society. Variable topics include women and crime, women and work, women and the family, women and religion. Can be taken 2 times for a maximum of 6 credit hours.
- WGS 5090      Variable Topics in Women's Studies      3 cr.  
 Prerequisite: Junior standing or consent of the instructor. Advanced study of women and gender. Topics vary from semester to semester. May be repeated once for credit, for a total of six credits.



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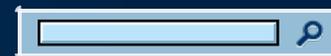
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# College of Business Administration Staff

- Dunn, Enjilee Academic Counselor; B.S., University of New Orleans.
- Gaffney, Margaret J. Assistant Dean; M.A., University of New Orleans.
- Hossain, Mohammed, Associate Director for Executive Education; M.B.A., University of New Orleans.
- Kloor, Aundrea L. Director of Executive Education Programs; M.A., University of New Orleans.
- Verde, Lisa L. Financial Coordinator for Executive Education Programs; B.A. University of Phoenix



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List of Faculty

# College of Education and Human Development Staff

- Blanchard, Martha M. Assistant Dean and Certification Officer; M.Ed., University of New Orleans.
- Laiche, Reagan C. Counselor; M.Ed., University of New Orleans.
- Ovella, Kurt M. Counselor; M.Ed., University of New Orleans.
- Welch, Donna M. Assistant Dean, M.Ed., University of New Orleans.



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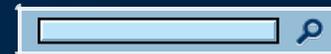
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# College of Engineering Staff

- Benko-Hakim, Nelly College Academic Advisor; B.A., University of New Orleans.



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## Staff of College of Liberal Arts

- Cipolone, Anthony Assistant Dean for Budget and Technology; MM, University of New Orleans.
- Greenblatt, Harmon Director Graduate Program in Arts Administration; MME, De Paul University.
- Micocci, Anthony Assistant Director Graduate Program in Arts Administration; MBA, Columbia University.
- Miguez, Jennifer A. Executive Coordinator for Operations and Events; BA, Louisiana State University.
- Peltz, Adam Academic Counselor; MFA University of New Orleans.



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## Staff of College of Sciences

- Thomas, Karen, Associate Dean of STEM Outreach, Recruitment, and Retention; Ph.D., McMaster University.
- Tuller, Teresa, Assistant Dean; M.S., Kansas State University.



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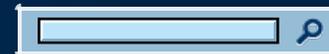
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- Aryal, Ishwor, Admissions Database Administrator; M.S., University of New Orleans.
- Bandy, Katie, Admissions Counselor; B.M., University of South Alabama.
- Baptiste, Shantrella Reception Services Assistant, B.A., University of New Orleans.
- Kristie Bellow, Graduate Admissions Counselor, B.G.S., University of New Orleans.
- Blady, Christina, Financial Aid Validator, B.I.D.S., University of New Orleans.
- Bomersback, Emily, Admissions Counselor, M.A., Indiana University.
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- Dickerson, Zena, Chief Coordinator of Scholarships; B.A., Mississippi State University .
- Dolliole, Renee', Financial Aid Counselor, B.A., Dillard University.
- Dupree, Sabrina, Coordinator for Communications; B.A., University of New Orleans.
- Edwards, Lorraine, Administrative Supervisor.
- Fajardo, Jessica Scholarship Officer, B.A., University of New Orleans.
- Fuselier, Nick, Student Success Counselor, M.Ed., University of New Orleans.
- Gable, Shawna, Administrative Coordinator.
- Garrity, Marla B., Financial Aid Counselor; B.S., Louisiana State University.
- Gavion, Calvin , Financial Aid Validator; B.A., Dillard University.
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- Harris, Brian, Admissions Counselor, M.Ed., University of Southern Mississippi.
- Heaton, Christy, Associate Director for Orientation & Programs; M.A., Western Illinois University.
- Hoffshire, Michael, Student Success Counselor, M.A., Michigan State University.
- Holliday, Russell, Administrative Coordinator.
- Horne, Emily, First Year Academic Advisor, M.Ed., Kent State University.
- Hornsby, Brett Campus Programs Coordinator; B.I.D.S., University of New Orleans.
- Hornyman, Brenda K. Assistant Director for Computer Systems; M.B.A., University of New Orleans.
- Keith, Caleigh, First Year Academic Advisor, M.F.A., University of New Orleans.
- King, Marissa, Admissions Counselor, B.A., Whittier College.
- Lockridge, Ann Coordinator, Loan Processing and Chairperson of SAP; B.A., Our Lady of Holy Cross College.
- Miller, Amy, First Year Academic Advisor, M.Ed., University of New Orleans.

Murphy-Mejia, Adley, Reception Services Assistant, B.A., University of New Orleans.

- Pember, Amie, Reception Services Assistant, B.S., Louisiana State University
- Petit, Barbara, Administrative Coordinator.
- Polivoda, Cat, Student Success Counselor; M.S., Texas A & M University.
- Ralston, Nicole, Student Success Counselor, M.Ed., NC State University .
- Richardson, Christina, Financial Aid Counselor; B.S., University of New Orleans.
- Riche, Jessica, Administrative Coordinator, B.I.D.S., University of New Orleans.
- Salas, Tonia, Student Success Counselor, M.Ed., NC State University.
- Slessinger, Toni, Admissions Counselor, M.A., Northwestern State University.
- Smith, Danielle, Administrative Coordinator.
- Uhle, Kate, Admissions Counselor, M.A., University of Texas.
- Verink, Linzee, Admissions Counselor, B.A., University of New Orleans.
- Williams, Gerard, Coordinator of First Year Advising, M.Ed., University of New Orleans.
- Williams, Jennifer Financial Aid Counselor; B.A., University of New Orleans.
- Woods, Kandise, Admissions Counselor, B.A., University of New Orleans.



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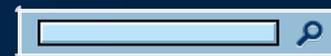
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# Staff of Department of Interdisciplinary Studies

- Brooks, Elaine Academic Director; Ph.D., University of California Davis.
- Harper, Daniel Associate Director; M.S., Missouri State University.



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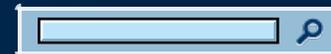
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# Staff of The Graduate School

- Anderson, Brandy Graduate Admissions Evaluator; B.S., University of New Orleans.
- Athey, Amanda Associate Executive Director; M.A., University of Georgia.



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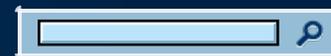
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## Staff of International Education

- Cot, Alea Morelock, Assistant Vice President and Director; M.A., Tulane University.
- Davidson, Margaret F. Resident Director, Academic Year Abroad; Ph.D., Tulane University.
- Esmail, Suad, Assistant Director, Office of International Students and Scholars; M.Ed.; University of New Orleans.
- Hicks, Mary Iola, Program Director, Division of International Education; M.Ed., University of New Orleans.
- Kaposchyn, Marie E., Program Director; Division of International Education; M.A., University of New Orleans.
- Marlatt, Jarred, Coordinator, Division of International Education. M.A., West Chester University.
- Martinez, Mariana Z., Coordinator, Division of International Education; B.A., Tulane University.
- Popescu, Alice, International Student Advisor, Office of International Students and Scholars; M.B.A. University of New Orleans.
- Sigel, Ines, Coordinator, Division of International Education; B.A., University of New Orleans.
- Thomas, Christiana J., Director, Office of International Students and Scholars; M.A., Indiana University of Pennsylvania.
- Ziegler, Irene B., Program Director, Division of International Education; Ph.D., University of Graz.



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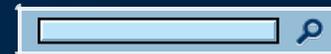
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# Staff of Intensive English Language Program, International Education

- Garza, Antonio, Teaching Associate, Intensive English Language Program; M.F.A., University of Florida.
- Gonzales, LaTasha, Charbonnet, Academic Coordinator, Intensive English Language Program; M.A., Monterey Institute of International Studies.
- Indovina, Christine, Program Director, Intensive English Language Program; M.A., University of Illinois, Chicago.
- Larson, Jamie, Teaching Associate, Intensive English Language Program; M.F.A., University of New Orleans.
- Pollard, Eric, Coordinator, Intensive English Language Program; B.A., State University of New York at Buffalo.
- Powell, Mark, Coordinator, Intensive English Language Program; M.A., University of Texas at Austin.
- Winkler, Phoebe, Teaching Associate, Intensive English Language Program; M. Ed, Seattle University.



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## Staff of Learning Resource Center

- Spahn, Toni T., Instructor, Mathematics Department/Interim Director, Learning Resource Center; M.S., Tulane University.
- Guillory, William, Administrative Coordinator, Learning Resource Center; B.A., Stanford University.



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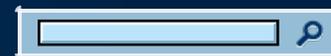
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## Library Staff

- Bopp, Melanie, Library Assistant; M.L.S., Louisiana State University.
- Cabading, Patrick, Library Assistant; B.A., University of New Orleans.
- Davenport, Lisa, Library Assistant; B.A., University of Southern Mississippi.
- Heyl, Jessica Library Assistant; B.S.; University of New Orleans.
- Hodges, James W Library Assistant; B.A., University of New Orleans.
- Joullian, Ronald Library Assistant; B.S. University of Montevallo.
- Korec, Anastacia, Library Assistant; B.A., University of New Orleans.
- Levkowicz, Janet Library Assistant; B.A., University of New Orleans.
- Lien, James F. Library Assistant; B.A., Tulane University.
- McDonald, Brian, Technology Training and Support Specialist; M.A., University of New Orleans.
- Mukherjee, Norma, Assistant to the Dean; B.B.A., Texas Tech University.
- Simmons, Faith, Library Assistant; B.L.A., Tulane University.
- Young, Catlin, Library Assistant; B.A., University of Mary Washington.



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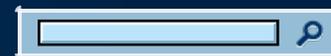
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- Moore, Matthew S, University Registrar, Ph.D., Auburn University.
- Chevis, Taryn Associate Registrar for Operations, M.B.A, University of New Orleans.
- Davis, Janet L. Associate Registrar; M.A., Southeastern Louisiana University.
- Garcia, Edward T. Associate Registrar for Degree Audit, M.B.A., University of New Orleans.
- Soharu, Rajni E. Associate Registrar for Technology; M.S., University of New Orleans.



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## Staff of Educational Support Program

- Megan Bryant, Tutor Coordinator Counselor, Student Support Services; MS, NCC, Loyola University of New Orleans.
- Chapuis, Nora Allen Director Student Support Services; M.A. University of New Orleans.
- Nancy Paes, Administrative Assistant I.



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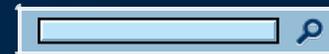
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## Staff of University Computing and Communication

- Arora, Gagan Application Programmer; M.S., Tulane University
- Austin, Kathy Security Administrator.
- Baham, Susan Application Team Leader; B.A., University of Houston.
- Hord, Alicia H. Assistant to the CIO; BS Business Administration, University of New Orleans.
- Bray, Irene Senior User Support Consultant.
- Bruhn, Brian P. Coordinator of Technical Services, Media Resources
- Carpenter, Chris Application Team Leader; B.A., University of New Orleans.
- Cutrera, Jr., Nick S. Manager of Desktop Computing; B.S., University of New Orleans.
- D'Aquin, Kenneth Manager, Data and Application; B.A., University of New Orleans.
- Dupree, David A. Director for Application Systems; M.Ed., University of New Orleans.
- Gernon, Ross M. Messaging Systems Administrator, MBA/MIS, University of New Orleans.
- Hardin, Ellis Senior Messaging Administrator; M.S., University of New Orleans
- Henry, Lauri L. Assistant Director of Application Systems/PeopleSoft Project Manager; B.A., Nicholls State University.
- Henriquez, Juan A. Director of User Training and Support; MSEE, University of New Orleans.
- Hillburn, George Manager, Security Systems.
- Houck, Cyprian; Help Desk Support Consultant
- Jones, Yolanda Telephone Systems Opr. II.
- Landry, Dottie Administrative Assistant IV.
- Lewis, Cheryl Information Tech Consultant.
- Lizama, Gina M. Coordinator of Key & Card Access; BBA in I.T. Management, University of Notre Dame.
- Lott, Michael Programmer Analyst; B.S., University of New Orleans.
- Marshall, Chris T. Manager of Enterprise Networks.
- Martinez, Billy Enterprise Projects Analyst.
- McCorkle, Jesse User Services Analyst.
- Meredith, Robert Identity Synchronization Administrator
- Merrick, Kenneth Programmer; B.S. University of New Orleans
- Minnis, Pierre LAN Administrator; B.S., University of New Orleans.
- Peter, Leslie Latrenda Administrative Coordinator,, Telecommunications and Electronics
- Rini, Brian M. Assistant Database Administrator; B.S., University of New Orleans.
- Rodriguez, Derek Helpdesk Manager; B.A., University of New Orleans.
- Rooney, David Programmer/Analyst; B.S., Rider College.

- Sheffield, William G. Electronics Shop Manager; A.S., Delgado Community College.
- Sicard, Bill Database Administrator; M.S., National Technology Institute.
- Stott, Philip Senior Network Engineer; B.S., University of New Orleans.
- Truong, Nam H. Web Developer/Programmer; BS in Computer Science, University of New Orleans.
- Ulmer, Ernest Telecommunications Analyst.
- Weiser, Paul Application Analyst; M.B.A., University of New Orleans.



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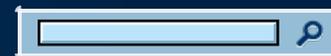
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# Staff of Writing Center

- Fink, Inge, Instructor/Director of the Writing Center; M.A., University of Innsbruck.



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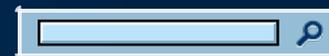
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## Faculty A-G

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### A

- Abdelguerfi, Mahdi Professor of Computer Science and Chair of the Department of Computer Science; Ph.D., Wayne State University. Member, Graduate Faculty.
- Abdel-Rahman, Hesham Louisiana Real Estate Commission Professor Economics and Finance; Ph.D., University of Pennsylvania. Member, Graduate Faculty.
- Adeola, Francis O. Professor of Sociology; Ph.D., Mississippi State University. Member, Graduate Faculty.
- Ahmed, Irfan Assistant Professor of Computer Science; Ph.D., Ajou University.
- Akyuzlu, Kazim M. M. Professor of Mechanical Engineering; Ph.D., University of Miami. Member, Graduate Faculty.
- Alexander, Angela M. Visiting Assistant Professor Educational Leadership, Counseling and Foundations; Ph.D., University of New Orleans.
- Alsamman, Abdul Rahman Associate Professor of Electrical Engineering; Ph.D., University of Alabama. Member, Graduate Faculty.
- Anthony, Nicola Mary, Associate Professor of Biological Sciences; Ph.D., Cambridge University. Member, Graduate Faculty.
- Arnold, Allison Instructor in English; M.A., University of Kentucky.
- Arroyo, Alexa Instructor in Fine Arts; M.A., Rutgers University.
- Artigas, Maria Del Carmen Professor of Spanish; Ph.D., University of Virginia. Member, Graduate Faculty.
- Atkins III, Victor B., Associate Professor of Music, MM. Manhattan School of Music, Member, Graduate Faculty.
- Atkinson, Connie, Associate Professor of History and Acting Director of the Midlo Center; Ph.D., University of Liverpool. Member, Graduate Faculty.
- Augier, Denis M. Associate Professor of French; Ph.D., University of Indiana, Bloomington. Member, Graduate Faculty.
- Austin, Patricia June Professor of Curriculum and Instruction; Ph.D., The University of New Orleans. Member, Graduate Faculty.
- Azzam, Rasheed M. A. Distinguished Professor of Electrical Engineering; Ph.D., University of Nebraska-Lincoln. Member, Graduate Faculty.

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### B

- Baas, Diane Assistant Professor in Film and Theatre; M.F.A. University of Washington School of Drama, Graduate Faculty.
- Ballanco, Betty J. Graduate Coordinator in Accounting and Director of the Business Administration Computer Installation; M.S., University of New Orleans.

- Barbé, Donald E. Professor in Civil and Environmental Engineering; Ph.D., Louisiana State University.
- Bates, Randolph Associate Professor of English; Ph.D., Tulane University. Member, Graduate Faculty.
- Baxter, Vern K. Professor of Sociology; Ph.D., University of Wisconsin, Madison. Member, Graduate Faculty.
- Beabout, Brian R. Assistant Professor of Educational Leadership, Counseling and Foundations; Ph.D., Pennsylvania State University. Member, Graduate Faculty.
- Beams, Joseph D. Oil and Gas Associate Professor of Accounting; Ph.D., Virginia Tech. Member, Graduate Faculty.
- Beaton, Elliott A. Assistant Professor of Psychology; Ph.D., McMaster University. Member, Graduate Faculty.
- Bell, Charles D., Assistant Professor of Biological Sciences, Ph.D., Yale University. Member, Graduate Faculty.
- Benischek, Roger Instructor in Film and Theatre and Director of the Nims Center; M.S., California State College-Bakersfield.
- Beriss, David I. Associate Professor and Chair of the Department of Anthropology; Ph.D., New York University. Member, Graduate Faculty.
- Birk, Lothar Associate Professor and Chair of the School of Naval Architecture and Marine Engineering; Ph.D., Tech University of Berlin.
- Bischof, Günter J. Professor of History and Director of CenterAustria; Ph.D., Harvard University. Member, Graduate Faculty.
- Blankenship, Elizabeth Ruth Instructor in English and Director of the Women's Center; M.A., University of New Orleans.
- Bole, Paul Thomas Associate Professor of Professional Practice of Education; Ph.D., Northern Colorado University.
- Bonis, Marc P. Assistant Professor of Professional Practice of Educational Leadership, Counseling and Foundations; Ph.D., The University of New Orleans.
- Bordelon, Bridget Mary Assistant Professor of Hotel, Restaurant, Tourism Administration; Ph.D., University of New Orleans.
- Bourderionnet, Olivier. Assistant Professor of French; Ph.D., Tulane University. Member, Graduate Faculty.
- Bourgeois, Edit J. Professor in Department of Electrical Engineering; Ph.D., Tulane University. Member, Graduate Faculty.
- Boyden, Joseph Anthony Writer in Residence, Department of English; M.F.A., University of New Orleans.
- Brand, Anna Livia Assistant Professor of Planning and Urban Studies, Ph.D. Massachusetts Institute of Technology. Member, Graduate Faculty.
- Breunlin, Rachel, Instructor in Anthropology and Co-Director Neighborhood Story Project; M.S.U.S., University of New Orleans.
- Broadhurst, Christopher J. Assistant Professor of Educational Leadership, Counseling and Foundations; Ph.D., North Carolina State University. Member, Graduate Faculty.
- Brockmann, Erich N. Associate Professor of Management; Ph.D., Florida State University. Member, Graduate Faculty.
- Brooks, Elaine S., Professor of Spanish and Academic Director for the Bachelor of Interdisciplinary Studies Degree Program; Ph.D., University of California-Davis. Member, Graduate Faculty.
- Brown, Nikki L. Associate Professor of History; Ph.D., Yale University. Member, Graduate Faculty.
- Bryant, Earle V. Professor of English; Ph.D., Harvard University. Member, Graduate Faculty.
- Buege-Boyden, Amanda E. Writer in Residence, Department of English; M.F.A., University of New Orleans.
- Burrell, Brenda Associate Professor of Special Education and Habilitative Services; Ph.D., University of New Orleans. Member, Graduate Faculty.

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## C

- Campbell, Anthony P. Artist in Residence, Department of Fine Arts; M.A. The Royal College of Art, London England. Member, Graduate Faculty.
- Candy, Catherine M. Associate Professor of History; Ph.D., Loyola University of Chicago. Member, Graduate Faculty.
- Carson, Caroline, Associate Professor of Music; D.M.A. University of South Carolina. Member, Graduate Faculty.

- Carter, Jack P. Associate Professor of Sociology; Ph.D., Florida State University. Member, Graduate Faculty.
- Causey-Konate', Tammie. Associate Professor of Educational Leadership, Counseling and Foundations; Ph.D., University of New Orleans, Member, Graduate Faculty.
- Chacko, Harsha E. Professor of Hotel, Restaurant and Tourism Administration; Ph.D., University of New Orleans. Member, Graduate Faculty.
- Chakravarty, Uttam K. Assistant Professor of Mechanical Engineering, Ph. D., Georgia Institute of Technology. Member, Graduate Faculty
- Charalampidis, Dimitrios Professor and Chair of Electrical Engineering; Ph.D., University of Central Florida. Member, Graduate Faculty.
- Chen, Huimin Associate Professor of Electrical Engineering; Ph.D., University of Connecticut. Member, Graduate Faculty.
- Chervenak, Edward E. Instructor in Political Science; Ph.D., Tulane University. Member, Graduate Faculty.
- Cho, Woohyun, Assistant Professor of Management, Ph.D., University of Maryland, R.H. Smith School of Business, Member, Graduate Faculty.
- Clancy, Mary J. Associate Professor of Biological Sciences; Ph.D., Princeton University. Member, Graduate Faculty.
- Cole, Richard B. Research Professor of Chemistry; Ph.D., University of North Carolina, Chapel Hill. Member, Graduate Faculty.
- Compton, D'Lane R. Assistant Professor of Sociology; Ph.D., Texas A & M University. Associate Member, Graduate Faculty.
- Conefry, Celeste Assistant Professor of French; Ph.D., Tulane University. Member, Graduate Faculty.
- Corey, Christy McLendon, Assistant Professor of Management; Ph.D., Tulane University. Member, Graduate Faculty.
- Cothren, Gianna M. Associate Professor of the Department of Civil and Environmental Engineering; Ph.D., Louisiana State University. Member, Graduate Faculty.
- Croegaert, Ana. Assistant Professor of Anthropology; Ph.D., Northwestern University. Member, Graduate Faculty.
- Cromartie, Jane S. Professor of Marketing; Ph.D., University of Florida. Member, Graduate Faculty.
- Crow, Stephen M. Professor of Management; Ph.D., North Texas State University. Member, Graduate Faculty.

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## D

- Daniel, Debra C. Instructor Retained and Associate Chair/Undergraduate Coordinator in Film and Theatre; M.S., McNeese State University.
- Daniels, Theresa Visiting Instructor in English; M.F.A., Washington University.
- Daunis, Miriam R. Associate Dean of the College of Sciences and Instructor in Mathematics, Ph.D., Southern Methodist University. Member, Graduate Faculty.
- Davis, James Ronnie Professor of Economics and Finance; Ph.D., University of Virginia. Member, Graduate Faculty.
- Day, Christine Lucile Professor and Chair of Department of Political Science; Ph.D., University of California-Berkeley.
- DeBacher, Sarah K. Instructor in English and Director of the Greater New Orleans Writing Project; M.F.A., University of New Orleans.
- Depano, N. Adlai A. Associate Professor of Computer Science; Ph.D., Johns Hopkins University. Member, Graduate Faculty.
- Derbigny, Helene J. Teacher in Residence in Curriculum and Instruction; M.Ed., The University of New Orleans.
- Derstler, Kraig L. Associate Professor of Earth and Environmental Sciences; Ph.D., University of California-Davis. Member, Graduate Faculty.
- DeVries, Philip J. Professor of Biological Sciences; Ph.D., University of Texas, Austin. Member, Graduate Faculty.
- Dew, Joseph L., Instructor in Biological Sciences, Ph.D., University of California at Davis.
- Doll, Daniel E. Associate Professor of English; Ph.D., Purdue University. Member, Graduate Faculty.

- Dufrene, Roxane L. Associate Professor of Educational Leadership, Counseling and Foundations; Ph.D., Mississippi State University. Member, Graduate Faculty.
- Dupont, Robert L. Associate Professor of History; Ph.D., Louisiana State University. Member, Graduate Faculty.

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## E

- Easterlin, Nancy L. Research Professor of English; Ph.D., Temple University. Member, Graduate Faculty.
- Ehrenreich, Jeffrey D. Professor of Anthropology; Ph.D., New School For Social Research. Member, Graduate Faculty.
- Ehrenfeucht, Renia Associate Professor and Department Chair of Planning and Urban Studies and LMHA Professor; Ph.D., University of California, Los Angeles. Member, Graduate Faculty.

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- Farizo, Kenneth P. Assistant Professor of Professional Practice in Education; Ph.D., University of New Orleans.
- Farrin, Jr., John S. Instructor in English; M.F.A., Southwest Texas State University.
- Fink, Inge Instructor in English; M.A., University of New Orleans.
- Fitzpatrick, Barbara L. Associate Professor of English; Ph.D., Duke University. Member, Graduate Faculty.
- Flynn-Wilson, Linda, Professor of Special Education and Habilitative Services; Ph.D., University of Illinois. Member, Graduate Faculty.
- Fok, Lillian Yee-Man Professor of Management; Ph.D., Georgia State University. Member, Graduate Faculty.
- French, Anthony W. Professor of Film and Theatre; M.F.A., Carnegie-Mellon University. Member, Graduate Faculty.
- Frick, Paul J., Distinguished Research Professor of Psychology and Chair of the Department of Psychology; Ph.D., University of Georgia. Member, Graduate Faculty.
- Fulop, Laszlo Assistant Professor of Film and Theatre; M.F.A., University of New Orleans, Graduate Faculty.

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## G

- Gallagher, Skip Instructor of Chemistry, Ph.D. University of Idaho.
- Gani, Md. Royhan Associate Professor of Earth and Environmental Sciences; Ph.D., University of Texas-Dallas. Member, Graduate Faculty.
- Garcia-Castellon, Manuel Professor of Spanish; Ph.D., University of Georgia. Member, Graduate Faculty.
- Gardner, John C. KPMG Professor of Accounting; Ph.D., Michigan State University. Member, Graduate Faculty.
- Gill, Ivan P. Assistant Professor in Curriculum and Instruction; Ph.D., Louisiana State University. Member, Graduate Faculty.
- Georgiou, Ioannis Yiakoumi Associate Professor of Earth and Environmental Sciences; Ph.D., University of New Orleans. Member, Graduate Faculty.
- Gery, John R. O. Research Professor of English; M.A., Stanford University. Member, Graduate Faculty.
- Ghil, Eliza M. Professor of French and Chair of the Department of Foreign Languages; Ph.D., Columbia University. Member, Graduate Faculty.
- Ghose Hajra, Malay. Assistant Professor; Department of Civil and Environmental Engineering; Ph.D., Kansas State University. Member, Graduate Faculty.
- Gladstone, David L. Associate Professor of Planning and Urban Studies, Ph.D., Rutgers University. Member, Graduate Faculty.
- Goodman, Richard Assistant Professor of English; M.F.A., Spalding University. Member, Graduate Faculty.

- Gopu, Vijaya Professor and Endowed Chair of Civil and Environmental Engineering, Ph.D., Colorado State University, Member, Graduate Faculty.
- Graves, Kevin L. Professor of Film and Theatre and Interim Dean of the College of Liberal Arts; Ph.D., Texas Tech University. Member, Graduate Faculty.
- Gray, D. Ryan. Assistant Professor of Anthropology; Ph.D., University of Chicago. Member, Graduate Faculty.
- Green, Yvette N. Associate Professor of Hotel, Restaurant, Tourism Administration; Ph.D., Virginia Polytechnic Institute and State University.
- Griffin, Henry Artist in Residence of Film and Theatre; M.F.A. University of New Orleans, Graduate Faculty.
- Griffith, Kevin B. Associate Professor of Film and Theatre; M.F.A., University of Southern Mississippi. Member, Graduate Faculty.
- Guillot, Martin Joseph Associate Professor of Mechanical Engineering; Ph.D., University of Texas, Austin. Member, Graduate Faculty.

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### H

- Haber, Yotam Visiting Assistant Professor of Music; D.M.A. Cornell University.
- Hall, Carsie A. Associate Professor of Mechanical Engineering; Ph.D., Howard University.
- Hansen, Erik Artist in Residence of Film and Theatre; MFA University of New Orleans. Graduate Faculty.
- Harmelink, Philip J. Ernst and Young Professor of Accounting, Research Professor and Chair of the Department of Accounting; Ph.D., University of Iowa. Member, Graduate Faculty.
- Hassan, Mohammad K. Associate Professor of Economics and Finance; Ph.D., University of Nebraska-Lincoln. Member, Graduate Faculty.
- Hauser, Kornelia Visiting Professor of Sociology; Ph.D., University of Bremen.
- Hayes, Cheryl A. Associate Professor and Co-Chair of the Department of Fine Arts; M.F.A., University of New Orleans. Member, Graduate Faculty.
- Hazlett, John D. Professor of English and Director of BA in International Studies; Ph.D., University of Iowa. Member, Graduate Faculty.
- Hembree, Carolyn A. Assistant Professor of English; M.F.A., University of Arizona. Member, Graduate Faculty.
- Herlihy, Barbara J. Research Professor of Educational Leadership, Counseling and Foundations; Ph.D., Northwestern University. Member, Graduate Faculty.
- Herrington, Paul D. Professor of Mechanical Engineering and Director of Graduate Program in Engineering Management; Ph.D., Louisiana State University. Member, Graduate Faculty.
- Hickey, Sean P. Instructor of Chemistry; M.S. University of Michigan, Ann Arbor.
- Himelstein, Abram Assistant Professor of Professional Practice; M.F.A., University of New Orleans.
- Holladay, Kenneth W. Professor of Mathematics; Ph.D., Massachusetts Institute of Technology. Member, Graduate Faculty.
- Hoover, David Professor and Chair of Film and Theatre; M.F.A., Lindenwood University. Member, Graduate Faculty.
- Hoque, MD, Tamjidul Assistant Professor of Computer Science; Ph.D., Monash University. Member, Graduate Faculty.
- Houser, Esther Anita Instructor in Accounting; M.S., Virginia Tech.
- Howard, Jerome Joseph Associate Professor of Biological Sciences; Ph.D., University of Iowa. Member, Graduate Faculty.
- Huelshoff, Michael G. Associate Professor of Political Science; Ph.D., University of Michigan-Ann Arbor. Member, Graduate Faculty.
- Hui, David Research Professor of Mechanical Engineering; Ph.D., Toronto University. Member, Graduate Faculty.

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## I

- Ibáñez, Juana L. Instructor Geography; M.A., University of Texas, Austin.
- Ioup, Juliette W. Professor of Physics and Seraphia D. Leyda University Teaching Fellow; Ph.D., University of Connecticut. Member, Graduate Faculty.

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## J

- Janz, Janice Gail Associate Professor of Professional Practice of Education; Ph.D., University of New Orleans.
- Jenkins, Pamela J. Professor of Sociology; Ph.D., Louisiana State University. Member, Graduate Faculty.
- Jensen, Craig A. Associate Professor of Mathematics; Ph.D., Cornell University. Member, Graduate Faculty.
- Jilkov, Vesselin P. Associate Professor of Electrical Engineering; Ph.D., Bulgarian Academy of Sciences. Member, Graduate Faculty.
- Johnson, Barb Assistant Professor of English; M.F.A., University of New Orleans. Member, Graduate Faculty.
- Johnson, Merrill Lee Professor of Geography, Executive Director of Global UNO; Ph.D., University of Georgia. Member, Graduate Faculty.
- Johnson, Richard A. Professor of Fine Arts; M.F.A., Washington University. Member, Graduate Faculty.
- Johnson, Steven G. Dean of the College of Science and Professor of Biological Sciences; Ph.D., University of Kansas. Member, Graduate Faculty.
- Jovanovich, Kim D. Professor of Electrical Engineering and Assistant Dean of Engineering. M.S. Telecommunications, University of Southern Mississippi. Member, Graduate Faculty.
- Jursic, Branko Professor of Chemistry; Ph.D., University of Zagreb. Member, Graduate Faculty.

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## K

- Kemp, Elyria Assistant Professor of Marketing; Ph.D., University of Arkansas. Member, Graduate Faculty
- Kennett-Hensel, Pamela Ann Professor and Chair of the Department of Marketing and Logistics; Ph.D., Georgia State University. Member, Graduate Faculty.
- Kiefer, John J. Associate Professor of Political Sciences and Director of the MPA Program; Ph.D., Old Dominion University. Member, Graduate Faculty.
- Kostner, Pia Ursula Instructor in German; M.A., University of New Orleans.
- Krishnaswami, Sudha Professor of Finance; Ph.D., Texas A&M University. Member, Graduate Faculty.
- Kruger, Darrell P. Dean of the College of Education and Human Development and Professor of Geography; Ph.D., Louisiana State University.
- Kuchta, Jennifer Ann Instructor in English; M.F.A., University of New Orleans.
- Kulp, Mark Alan Associate Professor of Earth and Environmental Sciences; Ph.D., University of Kentucky. Member, Graduate Faculty.
- Kura, Bhaskar Professor and Chair of Civil and Environmental Engineering; Ph.D., Louisiana State University. Member, Graduate Faculty.

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## L

- La Motta, Enrique J. Professor of Civil and Environmental Engineering; Ph.D., University of North Carolina, Chapel Hill. Member, Graduate Faculty.
- Lacho, Kenneth J. Professor of Management; D.B.A., Washington University.
- LaHoste, Gerald J. Associate Professor of Psychology; Ph.D., Tulane University. Member, Graduate Faculty.
- Lailvaux, Simon, Assistant Professor of Biological Sciences, Ph.D., Tulane University, Member, Graduate Faculty.
- Laird, Robert D., Professor of Psychology; Ph.D., Auburn University. Member, Graduate Faculty.

- Lambert, Joyce C. Arthur Andersen Professor of Accounting; Ph.D., Louisiana State University. Member, Graduate Faculty.
- Lamm, Connie A. Assistant Professor of Psychology; Ph.D., University of Toronto. Member, Graduate Faculty.
- Lane, Walter J. Associate Professor of Economics and Chair of the Department of Economics and Finance; Ph.D., University of California-San Diego.
- Leevongwat, Ittiphong, Assistant Professor of Electrical Engineering; Ph.D. Tulane University. Member, Graduate Faculty.
- Lewis, Elizabeth M. Instructor in English; Ph.D., Tulane University.
- Li, Linxiong Professor of Mathematics; Ph.D., State University of New York, Stony Brook. Member, Graduate Faculty.
- Li, Xiao-Rong President's Research Professor of Electrical Engineering; Ph.D., University of Connecticut. Member, Graduate Faculty.
- Liu, Zhengchang, Associate Professor of Biological Sciences, Ph.D., University of Texas Southwestern Medical Center, Member, Graduate Faculty.
- Lodhi, Mahtab A. Associate Professor of Geography; Ph.D., University of Nebraska-Lincoln. Member, Graduate Faculty.
- Logan Jr., James W. Professor of Management; Ph.D., Louisiana State University.
- Loomis, Catherine A. Associate Professor of English; Ph.D., University of Rochester. Member, Graduate Faculty.
- Lowe, Kate. Assistant Professor of Transportation Studies and Planning and Urban Studies; Ph.D., Cornell University. Member, Graduate Faculty.
- Lowry, James. Associate Professor and Chair of Geography; Ph.D., University of Arizona. Member, Graduate Faculty.
- Lundberg, Olof H. Professor and Chair of the Department of Management; Ph.D., Pennsylvania State University. Member, Graduate Faculty.
- Lyons, Matthew L. Assistant Professor of Educational Leadership, Counseling and Foundations; Ph.D., Ohio University. Member, Graduate Faculty.

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## M

- Mader, Sharon B. Dean of Library; Ed.D., Nova University. Member, Graduate Faculty.
- Mahesh, Sathiadev Professor of Management; Ph.D., Purdue University. Member, Graduate Faculty.
- Malkinski, Leszek Professor of Physics; Ph.D., Polish Academy of Science. Member, Graduate Faculty.
- Mann, Susan A. Professor of Sociology; Ph.D., Toronto University. Member, Graduate Faculty.
- Manry, David L. KPMG Continuing Scholar and Energy Accounting Conference Professor of Accounting; Ph.D., University of Texas -Austin. Member, Graduate Faculty.
- Maroney, Neal C. Associate Professor of Economics and Finance; Ph.D., Claremont Graduate School. Member, Graduate Faculty.
- Martin, Kim Visiting Instructor in English; M.A., University of Florida.
- Marsee, Monica A., Assistant Professor of Psychology; Ph.D., University of New Orleans. Member, Graduate Faculty.
- Marti, Kevin D. Associate Professor of English; Ph.D., Cornell University. Member, Graduate Faculty.
- Martin, Ariya Artist-in-Residence Department of Fine Arts; MFA, Rochester Institute of Technology.
- Masakowski, Stephen Coca-Cola Chair in Jazz Studies and Professor of Music; Diploma, Berklee College of Music. Member, Graduate Faculty.
- Mattei, Norma J. Professor of Civil and Environmental Engineering; Ph.D., Louisiana State University. Member, Graduate Faculty.
- McAllister, James A. Instructor in Spanish; M.A., University of New Orleans.
- McCorquodale, John A. Professor of Civil and Environmental Engineering; Director of FMI Center for Environmental Modeling for the Pontchartrain Institute for Environmental Sciences, Ph.D., Windsor University. Member, Graduate Faculty.

- McDonald, Kim C. Instructor in English; M.A., University of Idaho. Member, Graduate Faculty.
- McGowan-Hartmann, John Assistant Professor and Graduate Coordinator Film and Theatre; Ph.D., University of Melbourne. Member, Graduate Faculty.
- McNamara, Madeleine W., Visiting Assistant Professor of Political Science, PhD Old Dominion, Graduate Faculty.
- McNamee, Aaron G. Artist in Residence Department of Fine Arts; MFA, The University of New Orleans. Member, Graduate Faculty
- McReynolds, Patricia, Instructor in Mathematics; M.S. Louisiana State University.
- Maxwell, Justin Assistant Professor of English; M.F.A., Hamline University.
- Medina, Laura Assistant Professor in Film and Theatre; M.F.A., New York University, Graduate Faculty.
- Menes, Dulce Maria Instructor in Spanish; M.A., University of New Orleans.
- Meynard, Clifton Marks Instructor in Spanish; M.A., University of New Orleans.
- Michaelis, Walter J. Professor of Mathematics; Ph.D., University of Washington. Member, Graduate Faculty.
- Miestchovich Jr., Ivan Associate Professor of Finance and Director the Institute for Economic Development and Real Estate Research; Ph.D., University of Southern Mississippi. Member, Graduate Faculty.
- Millett, Allan P. Professor of History and Director, Center for Eisenhower Studies; Ph.D., Ohio State University. Member, Graduate Faculty.
- Min, Kyeong Sam Associate Professor of Marketing; Ph.D., Ohio State University. Member, Graduate Faculty.
- Mitchell, Mary N. Associate Professor of History; Ph.D., New York University. Member, Graduate Faculty.
- Mizell-Nelson, Michael J. Associate Professor of History; Joe Tregle Professor of Early American History, and Interim Ethel & Herman Midlo Chair of New Orleans Studies; Ph.D., Tulane University. Member, Graduate Faculty.
- Mokhiber, James P. Associate Professor of History; Ph.D., Johns Hopkins University. Member, Graduate Faculty.
- Mondada, Joke Maaten Associate Professor of Spanish; Ph.D., Louisiana State University. Member, Graduate Faculty.
- Montjoy, Robert Sabin Research Professor of Political Science; Ph.D., Indiana University. Member, Graduate Faculty.
- Mosterman, Andrea, Assistant Professor of History; Ph.D., Boston University. Member, Graduate Faculty.
- Mukherjee, Tarun K. James R. Moffett Professor of Finance; D.B.A., Texas Tech University. Member, Graduate Faculty.

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## N

- Naka, Atsuyuki Professor of Economics and Finance; Ph.D., University of Arizona. Member, Graduate Faculty.
- Nelson, Marla K. Associate Professor of Planning and Urban Studies and Freeport-McMoRan Professor; Ph.D., Rutgers University. Member, Graduate Faculty.
- Nesbit, Jacqueline Bee Instructor in Biological Sciences; Ph.D., Tulane University.
- Njite, David Professor of Hotel, Restaurant and Tourism Administration; Ph.D., The Ohio State University.
- Nuccio-Lee, Lena Marie Assistant Professor of Professional Practice of Education ; Ph.D., University of Southern Mississippi.

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## O

- O'Connell, Martin T. Associate Professor and Interim Chair of the Department of Earth and Environmental Sciences; Ph.D., University of Southern Mississippi.
- O'Hanlon, Ann Marie Associate Professor and Chair of Educational Leadership, Counseling and Foundations; Ph.D., Pennsylvania State University. Member, Graduate Faculty.
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## P

- Palumbo, Lisa A., Instructor of Marketing; M.B.A., University of New Orleans.
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- Pearlman, David Assistant Professor of Hotel, Restaurant and Tourism Administration; Ph.D., Michigan State University.
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- Petersen, Edward A. Professor of Music; M.A., Northwestern University. Member, Graduate Faculty.
- Phillips, Clarence Mark Instructor in Philosophy; Ph.D., Tulane University.
- Piano, Doreen M. Associate Professor of English; Ph.D., Bowling Green State University. Member, Graduate Faculty.
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- Reed, Gilda W. Instructor in Psychology; Ph.D., University of New Orleans.
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- Reid, Mark E. Associate Professor of Accounting; Ph.D., Georgia State University. Member, Graduate Faculty.
- Renne, John Luciano Associate Professor of Transportation Studies and Urban Planning and Director of the Merritt C. Becker Jr. Transportation Institute; Ph.D., Rutgers University. Member, Graduate Faculty.
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- Richard III, Golden Professor of Computer Science; Ph.D., The Ohio State University. Member, Graduate Faculty.
- Richardson, E. Shelby Instructor in English; Ph.D., Tulane University.
- Rick, Steven W. Professor of Chemistry; Ph.D., University of California, Berkeley. Member, Graduate Faculty.
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- Rodriguez, Kathy L. Instructor, Department of Fine Arts; M.F.A., M.A. The University of Montana. Member, Graduate Faculty.
- Roger, Patricia M. Instructor in English; Ph.D., Tulane University.

- Rose, Brent. Visiting Assistant Professor of Music; M.M., University of New Orleans.
- Roussev, Vassil, Associate Professor of Computer Science; Ph.D., University of North Carolina at Chapel Hill. Member, Graduate Faculty.
- Rule, Dan. Assistant Professor, Department of Fine Arts; M.F.A. Northern Illinois University. Member, Graduate Faculty
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## Faculty S-Z

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### S

- Santanilla, Jairo Professor of Mathematics; Ph.D., Colorado State University. Member, Graduate Faculty.
- Sarwar, A K Mostofa Professor of Earth and Environmental Sciences and Director of the University Honors Program; Ph.D., Indiana University, Bloomington. Member, Graduate Faculty.
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- Scaramella, Laura V. Professor of Psychology; Ph.D., University of Arizona. Member, Graduate Faculty.
- Schaffer, Jeffrey D. Professor of Hotel, Restaurant and, Tourism Administration; Ph.D., Virginia Polytechnic Institute and State University.
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- Schilling, Paul J. Professor and Chair of Mechanical Engineering; Ph.D., Louisiana State University. Member, Graduate Faculty.
- Schluchter, Wendy M. Professor and Chair of the Department of Biological Sciences; Ph.D., Pennsylvania State University. Member, Graduate Faculty.
- Schock, Peter A. Professor of English and Chair of the Department of English; Ph.D., University of Iowa. Member, Graduate Faculty.
- Scholl, Dorothy, Instructor in Biological Sciences, M.S., Southeastern Louisiana University.
- Seab, Charles G. Professor of Physics and Chair of the Department of Physics and Seraphia D. Leyda University Teaching Fellow; Ph.D., University of Colorado, Boulder. Member, Graduate Faculty.
- Seeger, Brian Assistant Professor of Music; M.M. The University of New Orleans.
- Shalit, Steven, Instructor in Mathematics; M.S., University of North Carolina at Chapel Hill.
- Sharpton, William R. Professor of Special Education and Habilitative Services; Ph.D., Georgia State University. Member, Graduate Faculty.
- Shenk, Robert E. Professor of English; Ph.D., University of Kansas. Member, Graduate Faculty.
- Shirtcliff, Elizabeth A., Associate Professor of Psychology; Ph.D., Pennsylvania State University. Member, Graduate Faculty.
- Shomade, Salmon A. Assistant Professor of Political Science; Ph.D., University of Arizona. Member, Graduate Faculty.
- Sigler, Elizabeth Uzee Instructor in Biological Sciences and Assistant to the Vice Chancellor for Research and Sponsored Programs; M.S., Oklahoma State University.
- Smith, Janet Barnwell Instructor in English; Ph.D., Louisiana State University.
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- Steeby, Elizabeth Assistant Professor of English; Ph. D., University of California, San Diego. Member, Graduate Faculty.
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- Taravella, Brandon Assistant Professor of the School of Naval Architecture and Marine Engineering; Ph.D., University of New Orleans, Member, Graduate Faculty.
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- Weems, Carl F. Professor of Psychology; Ph.D., Florida International University. Member, Graduate Faculty.
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- Wei, Peihwang Philip Louisiana Real Estate Commission Professor of Finance; Ph.D., Louisiana State University. Member, Graduate Faculty.
- Werner, Robin A. Instructor in English; Ph.D., Tulane University.
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- Wiley, John B. Research Professor of Chemistry; Ph.D., Northwestern University. Member, Graduate Faculty.
- Williams, John A. Dean of College of Business Administration, Professor of Hotel, Restaurant and Tourism and Director of the Lester E. Kabacoff School of Hotel, Restaurant and Tourism Administration; Ph.D., Pennsylvania State University.
- Williams, Kim H. Assistant Professor of Hotel, Restaurant and Tourism; Ph.D., University of New Orleans.
- Williams, Robin H. Professor of Music; D.M.A., Eastman School of Music. Member, Graduate Faculty.
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- Yao, Kewen, Instructor in Mathematics; Ph.D., Northwestern University.
- Yaukey, Peter H. Professor of Geography ; Ph.D., University of Georgia. Member, Graduate Faculty.
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## Z

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- Zirek, Duygu, Assistant Professor of Finance, Ph.D., City University of New York, Member, Graduate Faculty.

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- Chattin, Gena, Assistant Professor; M.S.L.S., Catholic University of America; M.A., University of Maryland.
- Crane, Janet E., Associate Professor; M.S.L.S., University of North Carolina, Chapel Hill.
- Ireland, Sonnet E., Assistant Professor; M.L.I.S., Texas Women's University.
- Jackson, Jennifer, Assistant Professor; M.S.L.I.S., University of Illinois at Urbana-Champaign.
- Jumonville, Florence M. Professor; M.S.L.S., Louisiana State University; M.Ed., University of New Orleans; Ph.D., University of New Orleans.
- Morgan, Marie A. Associate Professor; M.S.L.S, University of Kentucky; M.A., University of Kentucky.
- Pavy, Jeanne A. Associate Professor; M.L.S., University of Alabama, Tuscaloosa; Ph.D., Emory University.
- Phelps, Connie L. Professor; M.L.S., Louisiana State University.
- Reno, Lindsey, Assistant Professor; M.S.L.I.S., Simmons College.



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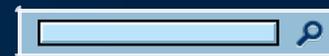
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## Faculty Emeriti

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- Agapos, Michael J. Professor Emeritus of Economics and Finance; Ph.D., Western Reserve University.
- Aldaya, Alicia G. R. Professor Emerita of Spanish; Ph.D., University of Havana.
- Allen, Gary C. Professor Emeritus of Geology; Ph.D., University of North Carolina, Chapel Hill.
- Allen, H. David Professor Emeritus of Sociology; Ph.D., Vanderbilt University.
- Altman, Ida L. Professor Emerita of History, Ph.D., John Hopkins University.
- Altazan, John E. Professor Emeritus of Economics and Finance; Ph.D., University of Illinois, Urbana Campus. Member, Graduate Faculty.
- Andrus, Jan F. Professor Emeritus of Mathematics; Ph.D., University of Florida.
- Anex, Basil G. Professor Emeritus of Chemistry; Ph.D., University of Washington.
- Baladouni, Vahe Professor Emeritus of Accounting; Ph.D., University of Illinois, Urbana.
- Banbury, Mary M. Professor Emerita of Special Education; Ph.D., University of New Orleans.
- Barnitz, John . Research Professor Emeritus of Curriculum and Instruction; Ph.D., University of Illinois.
- Barton, Frederick P. University Research Professor Emeritus, Professor of English Emeritus, Dean of the College of Liberal Arts Emeritus, Provost and Vice Chancellor for Academic and Student Affairs Emeritus; M.F.A., University of Iowa.
- Beeson, Edward L., Jr. Professor Emeritus of Physics; Ph.D., Georgia Institute of Technology.
- Beisenherz, Paul C. Professor Emeritus of Education; Ph.D., University of Washington.
- Bergeron, Clyde J., Jr. Professor of Emeritus Physics and Geophysics; Ph.D., Louisiana State University, Baton Rouge.
- Berman, David Michael Professor Emeritus of Mathematics; Ph.D. University of Pennsylvania.
- Billings, Warren M. Distinguished Professor Emeritus of History; Ph.D., University of Pennsylvania.
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- Blancq, Charles C. Emeritus Professor of Music; Ph.D., Tulane University.
- Bodet, Gerald Paul Professor Emeritus of History; Ph.D., Tulane University.
- Boudreaux, Edward A. Professor Emeritus of Chemistry; Ph.D., Tulane University.
- Boudreaux, Sybil A. Librarian Emerita; MS, Louisiana State University.
- Branam, George C. Professor Emeritus of English and Vice Chancellor Emeritus for Academic Affairs; Ph.D., University of California, Berkeley.
- Brasseaux, J. Herman Professor Emeritus of Accounting; Ph.D., Louisiana State University.
- Brooks, Jane S. Professor Emerita of Planning and Urban Studies; MS, Harvard.
- Brown, Frederick J. Associate Professor Emeritus of Mechanical Engineering; Ph.D., Tulane University.
- Bulla, Mary Ann Professor Emerita of Music, M.M., University of Oklahoma.

- Burt-Utley, Kathleen, Professor Emeritus of Biological Sciences, Ph.D., Duke University.
- Bush, Milton L. Professor Emeritus of Music; M.M.E., Louisiana State University.
  - Cashner, Robert Charles Research Professor Emeritus of Biological Sciences, Vice Chancellor Emeritus for Research and Sponsored Programs and Dean Emeritus of the Graduate School; Ph.D., Tulane University.
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  - Chirlian, Paul M. Professor Emeritus of Electrical Engineering; Ph.D., New York University.
  - Chute, William S. Professor Emeritus of Music; M.M., Manhattan School of Music.
  - Clark, Michael D. Professor Emeritus of History; Ph.D., University of North Carolina, Chapel Hill.
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  - Collin, Richard H. Professor Emeritus of History; Ph.D., New York University.
  - Cortina, Raquel Professor Emerita of Music; Ph.D., Florida State University.
  - Coulter, Philip B. Professor Emeritus of Political Science; Ph.D., State University of New York, Albany.
  - Cronin, Mary E. Professor Emerita of Special Education and Habilitative Services; Ph.D., University of Texas at Austin.
  - Dean, Anne L. Professor Emerita of Psychology; Ph.D., Catholic University of America.
  - Dohse, Fritz E. Professor Emeritus of Mechanical Engineering and Dean Emeritus of the College of Engineering; Ph.D., University of Illinois, Urbana.
  - Downing, Lyle A. Professor Emeritus of Political Science; Ph.D., University of California, Berkeley.
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  - Elliott, Richard J. Professor Emeritus of Education; Ed.D., University of Alabama.
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- Harris, Karen H. Professor Emerita of Library Science; M.Ed., Wayne State University.
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- Hartman, Sandra Professor Emeriti of Management; Ph.D., Louisiana State University. Member, Graduate Faculty.
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- Hill, Suzanne D. Professor Emerita of Psychology; Ph.D.; George Washington University.
- Hirsch, Arnold R. Professor Emeritus of History; Ph.D., University of Illinois, Chicago Circle. Member, Graduate Faculty.
- Hitt, Homer L. Professor Emeritus of Sociology, Founding Chancellor, and Chancellor Emeritus; Ph.D., Harvard University.
- Holditch, Kenneth Professor Emeritus of English; Ph.D., University of Mississippi.
- Hosch, Frederick A. Professor Emeritus of Computer Science; Ph.D., University of Wisconsin, Madison.
- Hosch, Gordon A. Professor Emeritus of Accounting; Ph.D., Louisiana State University.
- Howell, Susan E. Professor Emeritus of Political Science; Ph.D., The Ohio State University.
- Ibañez, Manuel L. Professor Emeritus of Biological Sciences; Ph.D., Pennsylvania State University.
- Ioup, George E. University Research Professor Emeritus of Physics and Geophysics; Ph.D., University of Florida.
- Ioup, Georgette L. Professor Emeritus of English; Ph.D., City University of New York, Brooklyn College.
- Johnson, Edward R. Professor Emeritus of Philosophy; Ph.D., Princeton University.
- Johnson, Jerah W. Professor Emeritus of History; Ph.D., University of North Carolina, Chapel Hill.
- Jones, Joseph Howard Professor Emeritus of Fine Arts; M.F.A., Auburn University.
- Jones, Julie Professor Emeritus of Spanish; Ph.D., Tulane University.
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- Juhn, Daniel Professor Emeritus of Management; D.B.A., George Washington University.
- Kemp, Alice Abel Professor Emerita of Sociology; Ph.D., University of Georgia.
- Kern, Jr., Ralph D. Research Professor Emeritus of Chemistry; Ph.D., University of Texas, Austin.
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- King, Bruce M., Professor Emeritus of Psychology; Ph.D., Chicago State University.
- Klaasen, Thomas A. Professor Emeritus of Economics; Ph.D., Michigan State University.
- Krantz, Susan E. Professor Emeritus of English and Dean Emeritus of Liberal Arts; Ph.D., Tulane University
- Kunen, Seth Professor Emeritus of Psychology; Ph.D., University of Wisconsin, Madison.

- Kythe, Prem K. Professor Emeritus of Mathematics; Ph.D., Aligarh Muslim University.
- Labarge, Richard A. Professor Emeritus of Economics; Ph.D., Duke University.
- LaGarde, Marie Professor Emerita of French; Ph.D., Tulane University.
- Lambert, Samuel J. Professor Emeritus of Accounting; Ph.D., Louisiana State University.
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- Laska, Shirley Emeritus Professor of Sociology; Ph.D., Tulane University.
- Leake, Joanna Brent Emeritus Professor of English; M.A., State University of New York, Buffalo.
- Leboeuf, Maurice M. Professor Emeritus of Management; Ph.D., Louisiana State University, Baton Rouge.
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- Lorton, John Professor Emeritus of Education; Ed.D., University of Southern Mississippi.
- Mackin, Cooper R. Professor Emeritus of English and Chancellor Emeritus; Ph.D., Rice University.
- Madaus, Herbert S. Professor Emeritus of Business Communication and Office Systems; Ed.D., Oklahoma State University.
- Malmgren, Carl D. Professor Emeritus of English; Ph.D., University of Oregon
- Margavio, Anthony V. Professor Emeritus of Sociology; Ph.D., Louisiana State University.
- May, James G., Professor Emeritus of Psychology; Ph.D., University of Houston.
- McDowell, Peggy Pulliam Professor Emerita of Fine Arts; M.F.A., Memphis State University.
- McIntosh, Harriet A. Professor Emerita of Management; Ph.D., University of North Dakota.
- McLean, Jack H. Professor Emeritus of Psychology; Ph.D., Tulane University.
- McManis, Kenneth L. Professor Emeritus of Civil Engineering; Ph.D., Louisiana State University.
- McSeveney, Dennis R. Professor Emeritus of Sociology, Dean Emeritus of Liberal Arts and Associate Provost Emeritus; Ph.D., Emory University.
- Mercurio, Nicholas Professor Emeritus of Economics; Ph.D., Michigan State University.
- Meza, James Professor Emeritus of Education and Dean Emeritus of the College of Education and Human Development; Ed.D., University of New Orleans.
- Mitchell, R. Judson Professor Emeritus of Political Science; Ph.D., University of Notre Dame.
- Mooney, Michael E. Professor Emeritus of English; Ph.D., University of Southern California.
- Morillo, Carolyn R. Professor Emerita of Philosophy; Ph.D., University of Michigan.
- Moustafa, Saad E. Professor Emeritus of Civil Engineering; Ph.D., University of California, Berkeley.
- Mueller, Gordon H. Professor Emeritus of History; Ph.D., University of North Carolina, Chapel Hill.
- Mumphrey, Anthony J., Jr. Professor Emeritus of Planning and Urban Studies; Ph.D., University of Pennsylvania.
- Munchmeyer, Frederick C. Professor Emeritus of Naval Architecture and Marine Engineering; Ph.D., University of Michigan, Ann Arbor.
- Murdock, Jane Y. Professor Emerita of Special Education; Ph.D., University of Utah.
- Murphy, Joseph E. Professor Emeritus of Physics; Ph.D., City University of New York.
- Murphy, Kay A. Professor Emerita of English; M.F.A., Goddard College.
- Nash, Jerry C. Research Professor Emeritus of French; Ph.D., University of Kansas.
- Nataraj, Mysore S. Professor Emeritus of Civil and Environmental Engineering; Ph.D., Vanderbilt University.
- Nelson, Beverly H. Professor Emeritus of Management; Ph.D., Louisiana State University.
- Neubauer, David W. Professor Emeritus of Political Science; Ph.D.; University of Illinois, Urbana.
- Nosich, Gerald M. Emeritus Professor of Philosophy, Ph.D., University of Illinois at Chicago Circle.
- O'Connor, Charles J. Professor Emeritus of Chemistry; Ph.D., University of Illinois.
- O'Connor-Walker, Dolores Professor Emeritus of Spanish; Ph.D.; University of California, Berkeley.
- O'Dell-Smith, Roberta Associate Professor Emerita of Biological Sciences; Ph.D., Duke University.
- Olson, Gayle A. Research Professor Emerita of Psychology; Ph.D., Saint Louis University.

- Olson, Richard D. Research Professor Emeritus of Psychology; Ph.D., Saint Louis University.
- Owen, Kenneth E. Librarian Emeritus; M.S., Louisiana State University.
- Paradise, Louis Professor Emeritus of Educational Leadership, Counseling and Foundations/Provost Emeritus; Ph.D., University of Virginia.
- Pearl, Daniel Professor Emeritus of Accounting; Ph.D., University of Minnesota, Minneapolis.
- Pekarek, Donald A. Vice Chancellor Emeritus for Student Affairs, University Relations and Campus Services; M.A., Missouri State Teachers College.
- Penfield, Elizabeth Professor Emerita of English; M.A., Duke University.
- Plante, Kathleen G. Registrar Emerita; M.A., University of Arkansas at Little Rock.
- Pinter, Aelita J. Professor Emerita of Biological Sciences; Ph.D., Tulane University.
- Poirrier, Michael A. Professor Emeritus of Biological Sciences; Ph.D., Louisiana State University.
- Politzer, Peter A. Boyd Professor Emeritus of Chemistry; Ph.D., Case Western Reserve University.
- Porter, Robert J., Jr. Professor Emeritus of Psychology; Ph.D., University of Connecticut.
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- Puri, Pratap Research Professor Emeritus of Mathematics; Ph.D., Indian Institute of Technology.
- Ragas, Wade R. Professor Emeritus of Economics and Finance; Ph.D., The Ohio State University.
- Razek, Joseph R. Professor Emeritus of Accounting; Ph.D., University of Illinois.
- Rees, Charles Sparks Professor Emeritus of Mathematics; Ph.D., University of Kansas.
- Reinecke, John A. Professor Emeritus of Marketing; Ph.D., University of Illinois, Urbana.
- Rogers, James S. Professor Emeritus of Biological Sciences; Ph.D., University of Texas, Austin.
- Ryan, Timothy P. Professor Emeritus of Economics; Ph.D., The Ohio State University.
- Salley, Coleen Professor Emerita of Education; M.S., Louisiana State University.
- Sauder, Robert A. Professor Emeritus of Geography; Ph.D., University of Oregon. Member, Graduate Faculty.
- Saussy, Gordon A. Professor Emeritus of Economics; Ph.D., Yale University.
- Savage, William R. Professor Emeritus of History; Ph.D., University of Chicago.
- Schueler, Donald G. Professor Emeritus of English; Ph.D., Louisiana State University.
- Schuth, H. Wayne Professor Emeritus of Film, Theatre and Communication Arts; Ph.D., The Ohio State University.
- Sexton, James D. Professor Emeritus of Special Education; Ph.D., University of Tennessee.
- Shull, Steven Allan Research Professor Emeritus of Political Science; Ph.D.; The Ohio State University.
- Sieg, Jerry P. Professor Emeritus of Music; Ph.D., Florida State University.
- Silvestri, Lynette R. Associate Professor Emerita of Human Performance and Health Promotion; Ed.D., Northwestern State University of Louisiana.
- Skiffington, Frances W. Librarian Emerita; M.L.S., Louisiana State University, Baton Rouge.
- Smith, Theresa L. Professor Emerita of Human Performance and Health Promotion; Ph.D., Louisiana State University, Baton Rouge.
- Snowden, Jesse O. Professor Emeritus of Geology; Ph.D., University of Missouri, Columbia.
- Soble, Alan G. Emeritus Research Professor of Philosophy, Ph.D., State University of New York, Stony Brook.
- Speyrer, Janet F. Professor Emeritus of Economics; Ph.D., Johns Hopkins University
- Stamps, Leighton E. Professor Emeritus of Psychology; Ph.D., West Virginia University.
- Stephens, Raymond W. Professor Emeritus of Geology; Ph.D., Louisiana State University, Baton Rouge.
- Stern, Alfred Professor Emeritus of Special Education; Ph.D., University of Texas, Austin.
- Stiebing, William H. Jr. Professor Emeritus of History; Ph.D., University of Pennsylvania.
- Stocker, Jack H. Professor Emeritus of Chemistry; Ph.D., Tulane University.
- Stone, Jim. Emeritus Professor of Philosophy, Ph.D., Colorado State University.
- Strickland, S. Mark Dean Emeritus of Academic Services; M.B.A., Auburn University.
- Sullivan, John J. Professor Emeritus of Physics; Ph.D., Syracuse University.
- Sweany, Ray L. Professor Emeritus of Chemistry; Ph.D., University of Illinois, Urbana.

- Thayer, Ralph E. Professor Emeritus of Urban and Regional Planning; Ph.D., Pittsburg University.
- Tillis, Salvadore Director Emeritus of the University Computer Center, M.A., University of New Orleans.
- Trefonas, Louis M. Professor Emeritus of Chemistry; Ph.D., University of Minnesota, Minneapolis.
- Trahan, Jr., Russell E. Professor Emeritus of Electrical Engineering and Dean Emeritus of the College of Engineering; Ph.D., University of California-Berkeley.
- Utley, John, Professor Emeritus of Biological Sciences, Ph.D., Duke University.
- Varela, Oscar A., Professor Emeritus of Economics and Finance; Ph.D., University of Alabama in Birmingham.
- Varnado, Alban F. Professor Emeritus of Drama and Communications; Ph.D., Louisiana State University, Baton Rouge.
- Villere, Maurice F. Professor Emeritus of Management; Ph.D., University of Illinois.
- Vorus, William S. Professor Emeritus of Naval Architecture and Marine Engineering; Ph.D., University of Michigan.
- Wagner, Fredrick W. Professor Emeritus of Planning and Urban Studies; Ph.D., University of Washington.
- Ward, Martha C. Professor Emerita of Anthropology; Ph.D., Tulane University.
- Ward, William C. Professor Emeritus of Geology; Ph.D., Rice University.
- Watkins, Terry A. Professor Emeritus of Mathematics; Ph.D., Texas Tech University.
- Webb, Malcolm C. Professor Emeritus of Anthropology; Ph.D., University of Michigan, Ann Arbor.
- Welch, George R. Professor Emeritus of Biological Sciences; Ph.D., University of Tennessee.
- Whelan, Robert K. Professor Emeritus of Urban and Regional Planning and Public Administration; Ph.D., University of Maryland.
- Whitbread, Leslie G. Professor Emeritus of English; Ph.D., DLit, University of London.
- Whitney, Gerald A. Professor Emeritus of Economics and Finance; Ph.D., Tulane University.
- Whittenburg, Scott L. Professor Emeritus of Chemistry; Ph.D., University of Utah.
- Wildgen, John K. Professor Emeritus of Planning and Urban Studies; Ph.D., Duke University.
- Wildgen, Kathryn Eberle Professor Emerita of French; Ph.D., Duke University.
- Williams, John R. Professor Emeritus of French; Ph.D., University of Colorado, Boulder.
- Young, William Thomas Professor Emeritus of Fine Arts; Ed.D., Columbia University.
- Yrle, Augusta C. Professor Emerita of Management; Ed.D., University of New Orleans.



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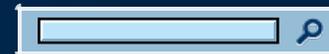
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## The Graduate School at UNO

### Dr. Kenneth Sewell, Vice President for Research and Economic Development/ Executive Director of Graduate School

In recognition of its duty to provide a center of learning for the community of New Orleans, the University established a graduate division in 1963, which later became The Graduate School in 1966. Beginning with master's degree programs in chemistry and physics, the Graduate School furthered the expansion of knowledge with graduate programs across the disciplines. In 1965, six graduate degrees were conferred at commencement: one Master of Science in Chemistry and five Masters of Education. In May 1967, the University of New Orleans conferred its first Doctor of Philosophy degree.

The Graduate School in coordination with the Graduate Council, regulates graduate policy across the University. The University currently offers advanced degrees in 32 master's programs and 12 doctoral programs. The programs are designed to provide students with opportunities for comprehensive training in special fields of study, to instruct them in methods of independent investigation, and to foster the spirit of scholarship and research.

The pursuit of research and free inquiry demand rigor, and graduate students are expected to exceed minimum requirements and to master subjects rather than pass courses to simply comply with formal requirements. Coursework at the graduate level should lay the foundation for the individual scholarship of students.

### Admission

#### Types of Admission and Requirements

##### Degree Program Admission

Applicants for admission to the Graduate School in a degree program are expected to have the following qualifications:

1. A baccalaureate degree from a university or college approved by a recognized accrediting agency.
2. Point-hour ratios of at least 2.5 for undergraduate work and 3.0 for all graduate and post-baccalaureate work for which a grade is given. (A-4, B-3, C-2, D-1, F-0)
3. Satisfactory academic standing at the last university or college attended.
4. Satisfactory admission test scores (see below).

An applicant who meets all of the above requirements may be granted unconditional admission, if accepted by the program. Program admission standards may be higher than the minimum Graduate School requirements. Many programs also require application materials beyond transcripts and test scores.

Applicants who fail to meet all the admission requirements may, in rare instances, be considered for probationary admission, but only upon very strong recommendation by the department concerned on the grounds of other evidence of ability to carry out the graduate program successfully. The Executive Director of Graduate School will consider the merits of the case and determine whether probationary admission is warranted.

Applicants who are unable to supply provide a final transcript because they are currently enrolled in a university program may be granted conditional admission provided all records, except for the semester in progress, have been submitted. In such cases the final transcript must be received not later than 30 days after the first day of classes in the fall and spring semester and not later than 15 days after the first day of classes in the summer session, or admission may be cancelled.

## Non-Degree Graduate Admission

An applicant who has already earned a baccalaureate degree and who does not intend to pursue another undergraduate or graduate degree should apply to The Graduate School as a non-degree student. Students who apply for non-degree status are not required to submit admission test scores but must submit official copies of the transcript certifying their baccalaureate or graduate degree. Students are strongly encouraged to carefully consider the problems that may arise in selecting this status. Short-term benefits such as temporarily avoiding the admission test may be exchanged for long-term serious disadvantages such as not being able to apply credits earned toward a degree program or not being eligible for prompt consideration for admission to a degree program until admission test scores or complete official transcripts are available. Also, some 6000-level courses are closed to non-degree students. Non-degree students are not eligible for federal financial aid.

Up to 12 hours earned as a non-degree student may be applied to a graduate degree program if and only if the courses carry graduate credit, the work is appropriate to the program, the appropriate graduate faculty recommends the acceptance of the credit hours, and the student is accepted into a degree program.

Non-degree students must read and comply with these provisions and departmental regulations to avoid serious problems.

## Procedures

Applicants should submit the online University application along with the \$20 application fee and required credentials at least 30 days prior to the beginning of registration for the semester for which they are applying. Graduate School priority dates are July 1 for fall semester admission; November 1 for spring semester; and May 1 for summer session.

Credentials include admission test scores (if required) and official transcripts of all undergraduate (including community college) and graduate college work taken, showing any degrees awarded. Transcripts must be sent directly to the Admissions Office from each and every college attended even if no credit was earned and even though the work may be shown on another transcript.

**RE-ENTRY** Students who have not been enrolled for one full calendar year (12 months) must re-file an online application for admission and submit transcripts of any work taken at another institution during the interim.

**MULTI-CAMPUS STUDENTS** enrolled in graduate programs at other UL System universities who wish to take courses at UNO should inquire at the Graduate School of their home institution for the procedure to be followed.

## International Students

Applicants from countries other than the United States may be admitted to the university subject to the following regulations in addition to the general admission requirements:

1. Accompanying the application must be an official English evaluation of the transcripts if the academic transcripts are in a foreign language. The Graduate School will determine whether the applicant's grades and coursework are equivalent to a bachelor's degree from UNO. A Statement of Financial Support must also be submitted, indicating financial ability to remain at the University long enough to complete degree requirements.
2. Applicants whose native language is not English are required to submit proof of English proficiency. There are several methods by which English proficiency may be verified including satisfactory scores earned on the Test of English as a Foreign Language (TOEFL), on the International English Language Testing System (IELTS), on the Michigan Test of English offered through the Intensive English Language Program at UNO, or with proof of degree earned at an institution located in a country recognized as English-speaking (Australia, Belize, Canada, Ireland, Jamaica, New Zealand, South Africa, the United Kingdom and the United States).
  1. For students completing the TOEFL, the Graduate School requires a composite score of at least 79 on the iBT (internet based), or 550 (paper-based). For additional information on the TOEFL you may visit

their web site at [www.toefl.org](http://www.toefl.org). The minimum band score on the IELTS test is 6.5.

2. Students completing UNO's International English Language Program (IELP) may satisfy English proficiency by achieving the following scores on the Michigan test: 70 on the Listening section, 70 on the Grammar section, and 75 on the Composition section.
3. International graduate assistants who have primary responsibility for teaching a course (Teaching Associate) are required to have a TOEFL score of 100 (internet-based score) or 600 (paper-based) or IELTS overall band score of 7.5. Individual graduate programs may have higher requirements.
4. An affidavit of support is required indicating the source of funds being made available to the student and the amount of money being provided and the length of time the funds will be made available.
5. Medical insurance. A health insurance fee will be assessed at the time of enrollment. An international student may purchase his or her own insurance. However, the policy must meet or exceed UNO's Student Health Insurance Plan.

### Fees and Financial Resources

(Consult Fees section.)

### ACCELERATED MASTER'S

The Accelerated Master's (AM) is designed to enable graduate programs to identify potential candidates as early as the junior year of study by extending an "early" (conditional) admission. The main feature of the program is that up to 12 semester hours of graduate credit earned while still an undergraduate may be used as dual credit for both the baccalaureate and master's degrees.

### Minimum Requirements

AM students must have a cumulative undergraduate GPA of at least 3.4 to be conditionally admitted into a master's degree program. Students may not enroll in graduate courses until they have

1. completed all requirements for the Core Curriculum;
2. completed a minimum of 75 hours of undergraduate work with at least 18 hours of upper-level courses completed in the major;
3. been conditionally admitted to a master's program; and
4. have an approved **Accelerated Master's Plan of Study** on file with the Graduate School.

Students interested in the Accelerated Master's should check with their department to determine whether their program is a participant in AM.

### GRADUATE REGULATIONS

Failure of students to acquaint themselves fully with the organization and regulations of the University and Graduate School may lead to complications for which the student must assume full responsibility.

### Degrees for Faculty and Staff

The Graduate School will not award the doctoral degree to full-time faculty of UNO above the rank of instructor or to other employees who in the opinion of the Graduate Council are of equivalent status; nor will it permit such persons to register for credit toward a UNO doctorate.

### Meeting Degree Requirements

Graduate degrees are not conferred merely upon the basis of number of courses passed or on length of time spent in residence, but rather upon the basis of the quality and scope of a candidate's knowledge and power of investigation. Degree requirements must be interpreted with the understanding that the Graduate School prescribes only minimum standards. Individual departments may demand performance well in excess of the minimum Graduate School requirements. Meeting specific requirements does not guarantee admission or permission to enter whatever course or program a student desires to take.

### Courses

All graduate courses for which the student meets the prerequisites are open to graduate students. Courses numbered above 6000 are graduate courses and only open to graduate students. Graduate credit is awarded for

courses numbered 5000-level and above. Graduate credit is not awarded for courses numbered 4000-level and below. Graduate courses are taught by a member of the graduate faculty, and are taken while the student is enrolled as a graduate student, or under the limited conditions in which an undergraduate may earn graduate credit (see *Work by Undergraduates*). Graduate students who enroll in 5000-level courses will be expected to complete assignments conforming to the higher standards of scholarship and research that guide the Graduate School.

#### Maximum and Minimum Course Loads

Graduate students enrolled in at least nine semester hours for the fall and spring semesters and six semester hours for the summer are considered full-time enrolled. Students on graduate assistantships, scholarships or fellowships are required to be enrolled full-time. Registration for course loads greater than fifteen semester hours for the fall and spring semesters and twelve semester hours for the summer requires program and Graduate School approval.

#### Catalog in Force

Generally, a student must meet all the requirements for a degree outlined in one catalog. The student may elect any catalog in force during his or her enrollment at the University, provided enrollment is continuous. A student who has a break in enrollment for five calendar years may not elect a catalog earlier than the one in force at the time of re-entry. Under no circumstances may a catalog more than 10 years old be used. In some instances, program or college graduation requirements may be imposed that are not included in the catalog under which the student has chosen to graduate. These additional or different requirements are well publicized by the colleges involved.

#### Work by Undergraduates

A UNO undergraduate student who lacks not more than twelve semester hours for a UNO bachelor's degree may be permitted, after scheduling all required work for the degree, to register for up to 9 hours of graduate credit. This privilege applies only to students who have maintained a cumulative grade point average of 3.2. It is extended only upon recommendation of the dean of the student's college and by permission of the department. This approval must be obtained prior to the start of the semester involved. The courses for graduate credit must also be approved by the professor under whom the student intends to do major work as a graduate student. The total amount of work, graduate and undergraduate, for which a student covered by this provision may register may not exceed 15 semester hours.

#### Auditors

A student may be admitted to classes as an auditor by obtaining admission to The Graduate School in the regular fashion and by receiving the written permission of the instructor of the course. Auditors will not receive university credit, nor will they be permitted to take a credit examination on work audited.

Students may not change from audit to credit after the last day to add a course. With permission of the instructor, they may change from credit to audit within the first 15 class days of the semester (7 class days in the summer).

#### Examinations

A student must be enrolled in the University to receive credit in any examination (general, comprehensive, oral defense, etc.) or to satisfy other requirements for advanced degrees. A student may meet this requirement by registering for Examination or Report/Thesis Only (Course Number 7040) and paying a fee of \$15 at registration. Registration for Examination Only (that is, registration in 7040) normally allowed for only one semester. However, in exceptional circumstances a student may be allowed to enroll in 7040 one additional time. The request should be initiated by a faculty member in the student's degree program and include information about the student's progress towards the degree.

At a minimum, the student must have turned in a completed draft of the manuscript to the student's thesis/dissertation committee. If the student is completing a non-thesis master's program, they must have initiated the comprehensive examination or project report. The decision regarding a second enrollment will be made by the Executive Director of the Graduate School. No exceptions will be granted beyond a second enrollment in 7040.

#### Failure to Drop or Resign as Prescribed

Once enrolled in a course, there is a prescribed procedure for either dropping or resigning. It is the student's responsibility to follow the required procedures and to meet the deadlines in this catalog for dropping courses and

resigning from the University. Failure to comply usually results in a grade of F.

#### Correspondence Study

No graduate credit is allowed for work done by correspondence study.

#### Transfer of Credit

The majority of credits toward a graduate degree (either master's or doctoral) must be earned at the University of New Orleans. The maximum hours that can be transferred for doctoral degrees vary. The specific program of interest should be consulted for the limitations and conditions on transfers for doctoral degrees. Only credits earned in courses with a grade of "B" or higher may be transferred; thesis/dissertation research credits may not be transferred.

- A maximum of 12 hours earned as a non-matriculating student may be used in a master's degree program, if approved by the program and the College.
- A maximum of one-third of the credit hours required for the degree transferred from other schools may be used in a master's degree program, if approved by the program and the College.
- A maximum of one-half the credits required for a second degree may be applied from a prior master's degree at UNO, if approved by the program and the College.
- No more than 50% of the hours required for a doctoral degree may be transferred. However, most doctoral programs allow fewer hours. The specific program of interest should be consulted for the limitations and conditions on transfers for doctoral degrees.

To petition for acceptance of these credits, the student must be currently enrolled, must have completed at least 9 hours of graduate course work in a degree program at UNO, and must be in good academic standing. Transfer of credit is approved only for course work taken as a graduate student; no work graded lower than a B can be transferred, unless the course is a joint degree program requirement. Transfer credit offered toward a degree is subject to the same time limits as course work taken at UNO.

Graduate work transferred from other institutions may be applied toward degree requirements, but the grades earned will not be computed in the UNO graduate average, unless the course is a joint degree program requirement.

#### Graduate Grading System

Grades in the Graduate School have these meanings:

A	has a value of four quality points per semester hour and indicates superior work.
B	has a value of three quality points per semester hour and indicates satisfactory work.
C	has a value of two quality points per semester hour and is below the expected level of performance. In some departments a course with a C grade may be accepted toward a degree, but, strictly speaking, this grade represents work below the standard expected of a graduate student and should be construed as a warning that further work in the subject may be unwise. No more than six semester hours of credit with a grade of C may be applied to a Master's degree.
D	has a value of one quality point and indicates unsatisfactory work by the student. A course with a D grade may not be accepted toward a degree.
F	has no quality point value and indicates grossly unsatisfactory work by the student.
I	If a student, because of extenuating circumstances, is unable to complete all of the requirements for a course by the end of the semester, the instructor may assign an incomplete ("I") for the course. The "I" may be used only when all of the following conditions are met: (a) the student has satisfactorily completed a substantial portion of the course; (b) the student is unable to complete all course work or final exam due to unusual circumstances acceptable to the instructor; and (c) the student and instructor agree on the assignment of the "I" grade before grades rosters are due. If the "I" grade is not removed by the end of the following semester (all summer sessions count as one semester), the grade will convert to an "F." Receiving an "I" grade may have financial aid consequences; therefore, students should check with the Office of Financial Aid before agreeing to take an Incomplete.

S	is a grade given for satisfactory work in certain seminar and research courses, as well as in thesis (7000) and dissertation (7050) progression. If petitioned by the teacher or major professor within 45 calendar days after the last day for submitting final grades, a grade of S may be changed to a regular letter grade.
U	is a grade given for unsatisfactory work in certain seminar and research courses, as well as in thesis (7000) and dissertation (7050) progression. A grade of U serves notice of serious and immediate concern with regard to the student's advancement in the degree program. If petitioned by the teacher or major professor within 45 calendar days after the last day for submitting final grades, a grade of U may be changed to a regular letter grade.
W	means withdrawal. This grade is given when a student drops a course or resigns from the University before the appropriate deadline (see calendar). Credit hours for which a grade of W is recorded are not used in calculating the student's average.
XF	The grade of XF has no quality point value and is treated the same as an F. This grade is earned when a student stops attending a class.
XU	is treated the same as a U. There are two instances in which a student may receive a grade of XU. The first instance is for a student who never attends a class or stops attending and does not drop the course. The second is for a student who attends a class, is failing, and does not take the final exam.

### Grade Appeal Policy

The course final grade appeal policy provides the student with a safeguard against receiving an unfair final grade in a course, while at the same time respecting the academic freedom of the instructor which is vital to the integrity of the teaching process at the University of New Orleans. The course final grade appeal process strives to resolve a dispute between student and instructor in the assignment of a course final grade at the collegial level. Every student has the right to have a request for consideration of his or her final grade reviewed by the chair of the department and a departmental Grade Appeal Committee. The course final grade appeal is confined to charges of unfair action against an individual student and may not involve a challenge of an instructor's class grading standard. It is incumbent on the student to substantiate the claim that his/her final grade in the course represents unfair treatment, compared to the standard applied to the remainder of the class. Only the final grade in a course may be appealed.

The following grade appeal procedure affords informal and formal mechanisms for arbitration of a grade disagreement between student and instructor. (To see the full policy and administrative guidelines, go to <http://www.uno.edu/student-affairs-enrollment-management/student-policies/grade-appeal-policy.aspx>)

If a student believes that the final grade in a course is unfair, the student shall meet with the instructor to try to resolve the issue. If the dispute remains unresolved the student shall submit a formal written statement to the Department Chair no later than the end of the fourth week of the following semester (whether or not the student is actually enrolled at the University).

The Department Chair will attempt to resolve the conflict between the student and the instructor. If the dispute cannot be resolved through informal mediation, the student may request in writing that the Department Chair initiate a formal appeal procedure through the departmental Grade Appeal Committee. The Committee makes the final decision regarding the grade.

If either the instructor or the student wishes to challenge the outcome on procedural grounds (not the outcome of the appeal) he/she may appeal to the Executive Director of the Graduate School. If it is determined that the procedures were not properly followed and the violations could have been material to the outcome of the hearing, the Executive Director will direct the process be resumed at an appropriate point.

### Academic Performance Standards

A cumulative grade-point average of 3.0 is considered by the Graduate School to be the minimum standard of academic performance. A student who fails to maintain a cumulative 3.0 average on graduate course work taken at UNO will be placed on academic probation and denied a graduate assistantship.

A student must earn a semester grade point of 3.0 or better each semester while on probation until a cumulative

grade point of 3.0 is achieved. Failure to earn a semester grade point of 3.0 while on probation will result in being dropped from the University for one semester (not including summer).

Any student who returns after being dismissed returns on probationary status and must maintain a 3.0 semester grade point or else be dismissed permanently from the University. A student who is admitted to a graduate program on probation, must make a 3.0 grade-point average in each semester in which the first twelve hours of graduate work is completed or the student will be dismissed from the Graduate School. (For these purposes, the summer session is regarded as a semester.) Failure to meet specific academic performance standards established by the department may also result in the imposition of academic action against the student.

#### Academic Requirements for a Degree

To receive a graduate degree, the Graduate School requires that the student have a minimum cumulative grade-point average of 3.0 on all graduate course work, as well as all course work applied specifically to the degree. A grade of D or F in any course may not be used to satisfy degree requirements. A student may not graduate during a semester in which academic probation is imposed. (See also the sections on Graduate Grading System and Academic Performance Required.)

#### Graduation Requirements

Generally, a student must meet all the requirements for a degree outlined in one catalog. The student may elect any catalog in force during his or her enrollment at the University, provided enrollment is continuous. A student who breaks enrollment (either voluntarily or by compulsion) for five calendar years may not elect a catalog earlier than the one in force at the time of re-entry. Under no circumstances may a catalog more than 10 years old be used. In some instances, program or college graduation requirements may be imposed that are not included in the catalog under which the student has chosen to graduate. These additional or different requirements are well publicized by the colleges involved. There are several requirements which must be completed by all students prior to graduation. The student must:

1. complete all academic requirements for a degree.
2. ascertain, through the college of the major, that his or her academic record is accurate and complete. This should be done not later than one semester prior to graduation. Submit an application for graduation and diploma fee to the Registrar's Office during the registration period of the last semester in residence.
3. Dissertation students will be charged an additional fee to defray the cost for processing the manuscript. A student who has previously paid a diploma fee, but who failed to graduate at the time expected, must reapply and pay the application fee again.
4. have all financial indebtedness to the University cleared prior to graduation.
5. exit interview for financial aid.

A student who does not follow and complete the above requirements and procedures will not be allowed to graduate.

## Graduate Assistantships, Fellowships and Scholarships

A number of teaching, research, and service assistantships are available for qualified students in all areas of the University. Graduate assistants may be appointed for the academic year (nine months), fiscal year (12 months), or summer. Graduate assistants must be enrolled as full-time (9 graduate credit hours in Fall and Spring) students and maintain a 3.0 grade point average. International graduate assistants who have primary responsibility for teaching a course (TA3) are required to have a TOEFL score of 100 (internet-based score) or 600 (paper-based) or IELTS overall band score of 7.5. Individual graduate programs may have higher requirements.

Assistantships provide a salary, tuition exemption, a graduate enhancement fee exemption and a waiver of the non-resident fee. Should a graduate assistant resign or be terminated from the University, the student will be held accountable for all tuition and fees for that semester. Graduate assistants are not permitted to hold employment outside of the University without written authorization from the Executive Director of Graduate School. Inquiries and applications should be made directly to the student's degree program or University department.

#### Graduate Scholarships

The Graduate School at the University of New Orleans distributes merit-based awards once each year.

Scholastic performance and test scores are among the criteria evaluated. Applicants must be newly and unconditionally accepted to a UNO graduate program in a Fall semester, have a suitable GRE or GMAT score, meet the GPA requirements for the award and maintain nine credit hours of graduate coursework each semester (spring and fall). In addition, applicants must be nominated for an award by the program to which they have been admitted. Students should contact their graduate coordinator to initiate the process. All awards are renewable annually for up to two years for master's degree students (three years for MFA students) and five years for doctoral degree students, provided that students maintain the required cumulative GPA, successfully complete nine graduate credit hours each semester, and retain the support of their degree program

#### Master's Student Award

Any student fully admitted into a Master's degree program, with 3.0+ undergraduate and/or 3.5+ graduate GPA is eligible for this award. This scholarship provides a waiver of tuition and graduate enhancement fee for the academic year (fall and spring). Due Date: March 15.

#### Master's and Doctoral Level Award

##### Marcus B. Christian Graduate Scholarship

African-American and other under-represented U.S. minority students accepted to Doctoral and Master's degree programs with a 3.0+ undergraduate GPA and/or 3.5+ graduate GPA are eligible for this award. Strong preference is given to Louisiana residents and to graduates of Southern University in New Orleans and other historically black institutions. This scholarship provides a waiver of tuition and graduate enhancement fee for the academic year (fall and spring). Due Date: March 15

#### Doctoral Student Award

Any student fully admitted into a Doctoral degree program, with 3.0+ undergraduate and/or 3.5+ graduate GPA is eligible for this award. This scholarship provides a waiver of tuition and graduate enhancement fee for the academic year (fall and spring). Due Date: March 15

#### SREB/BoR/Ernest G Chachere Doctoral Diversity Fellowship

Any under-represented U.S. minority student accepted to begin a Doctoral program in the Sciences, with a 3.25+ undergraduate GPA or a 3.5+ graduate GPA, is eligible for this award. While students of the social sciences may apply, strong preference is given to applicants in the physical and mathematical sciences and engineering. This Fellowship provides a waiver of tuition and the nonresident fee for the academic year (fall, spring and summer) and a \$22,000 stipend per year for four (4) years, as well as a Membership in the Southern Regional Education Board (SREB) Doctoral Scholars Program for each of the four (4) years. Availability of these awards is subject to funding by the Board of Regents. Due Date: February 15

#### Student Financial Aid

For detailed information go to [www.uno.edu/finaid](http://www.uno.edu/finaid) .

#### Career Services

The Career Services office assists students with their career planning and provides information and materials on career development and employment opportunities. Career Services is a member of the National Association of Colleges and Employers (NACE) and follows NACE's principles. Current students can register for the Career Compass that automates the entire career connection process for student profiles, resume uploads, job postings, and internships/cooperative experiences.

#### Affiliated Research

##### Oak Ridge Associated Universities

The University of New Orleans is affiliated with the Oak Ridge Associated Universities (ORAU) which provides research collaboration opportunities with federal research facilities, other universities within the southeast, and corporate organizations. Together the universities work toward acquiring joint opportunities to compete for large research projects, to acquire shared information technology and to work in additional ways made possible by the critical number of universities involved. ORAU also offer opportunities to faculty and graduate students to participate in research through fellowships for graduate students and research affiliations for faculty.

### Louisiana Universities Marine Consortium

The Louisiana Universities Marine Consortium (LUMCON) is an organization of public universities in the state including the University of New Orleans. LUMCON was chartered in 1979 to develop coordinated marine research and education within the state university system and provide coastal facilities for these programs.

LUMCON's principal facility is the Universities Marine Center at Cocodrie. The Marine Center consists of a fifty thousand square foot laboratory-dormitory complex, ninety-five foot and fifty-five foot research vessels, numerous small vessels and collecting equipment, and docking and service facilities for all the vessels. Satellite facilities with laboratories, accommodations, and small boats are operational at Port Fourchon and at Fearman Bayou. The Port Fourchon Laboratory provides ready access to salt and brackish marshes, the bays and bayous of the Timbalier and Barataria Bay systems, beaches, and the Gulf of Mexico; while the Fearman Bayou Laboratory provides access to a wildlife refuge on Vermillion Bay, brackish and fresh water marshes, and coastal cheniers.

College courses in the marine sciences offered at all three facilities emphasize extensive field experience and studies of living organisms in their natural habitat and in the laboratory. Enrollment in each course may be limited by space and accommodations available at a particular laboratory, but applicants from member institutions of LUMCON will be given priority. Students enrolled at UNO will register for LUMCON courses through UNO and will pay tuition based on the UNO fee schedule. Credit for such courses will be awarded by UNO and will be recorded on student transcripts. For details of marine science courses to be offered at LUMCON facilities see course offering in Biological Sciences, and consult the Chairs of the Departments of Biological Sciences and Earth and Environmental Sciences.

### Louisiana Alliance for Minority Participation (LAMP)

The University of New Orleans is a recipient of funds from the National Science Foundation through the Louisiana Board of Regents to implement and administer a program on the UNO campus called the Louisiana Alliance for Minority Participation (LAMP). LAMP goals are to expand and reinforce systemic mentoring, including research participation and guidance to graduate students. The overall goal is to improve minority participation in science and math education and technology. Various LAMP programs introduce students to research tools and methods, provide hands-on research experience, build computer and technology skills, and help students prepare for graduate school.

### Southeastern Universities Research Association (SURA)

The University of New Orleans has been a member of the Southeastern Universities Research Association (SURA) since 1993. SURA is a consortium of colleges and universities in the southern United States and the District of Columbia established as a non-stock, nonprofit corporation. SURA serves as an entity through which colleges, universities, and other organizations may cooperate with one another and with government in acquiring, developing, and using laboratories and other research facilities and in furthering knowledge and the application of that knowledge in the physical, biological, and other natural sciences and engineering.

SURA's goals are to foster excellence in scientific research, to strengthen the scientific and technical capabilities of the nation and of the Southeast, and to provide outstanding training opportunities for the next generation of scientists and engineers.

The most recent consortium emphases of SURA have focused on Information Technology (IT) and Internet II, advanced materials research, and coastal research activities.



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# Graduate Programs in Engineering

The College of Engineering offers a Master of Science in Engineering, a Master of Science in Engineering Management and a Ph.D. in Engineering and Applied Sciences, allowing applicants with various backgrounds and goals to be accommodated.

## Master of Science in Engineering

### [Student Learning Outcomes](#)

### [College of Engineering](#)

### [Master of Science in Engineering](#)

1. Application of mathematics, science, and engineering to solve significant engineering problems.
2. Professional development and enhancement of technical communications.
3. M.S.E. graduates will qualify for above-entry-level jobs in industry or in continuing their graduate education at the Ph.D. level.

### [Admission](#)

Applicants seeking admission to a graduate program in engineering must have received a bachelor's degree in a field of engineering from an ABET-accredited engineering or closely related program or, in the case of foreign students, must present evidence of an equivalent preparation. Furthermore, applicants are expected to have a grade-point average (GPA) of 3.0 or better for undergraduate work and all graduate and post-bachelor work. Applicants who have an undergraduate GPA between 2.5 and 3.0 may be considered for admission on a case-by-case basis which will include a review of their last 60 hours of engineering course work and GRE scores. In addition, the student is required to complete the GRE prior to consideration with scores indicating that the student will perform well in a strong graduate program.

Furthermore, all students must complete all requirements for the graduate courses in which they wish to enroll, and must meet any additional general requirements as stipulated by the Graduate School and the College of Engineering.

### [Applicants without an Undergraduate Degree in Engineering](#)

Applicants with Bachelor of Science degree in mathematics, the sciences, or other undergraduate degrees will be considered on a case-by-case basis. Such students must complete a core program specific to each department including any prerequisite for each or pass the equivalent credit examinations with a grade of "B" or better. Such students would be best advised by the particular department in which they seek to enroll.

### [Degree Requirements](#)

After admission, students are required to select an area of concentration. A choice is provided between a thesis or a research program, calling for 30 hours of graduate credit, including six hours of thesis research; and a non-thesis option, requiring 33 hours of graduate credit.

## Concentrations

Concentrations are allowed in the following areas:

- Civil/Environmental Engineering
- Electrical Engineering
- Mechanical Engineering
- Naval Architecture and Marine Engineering

## Master of Science in Engineering Management

The College of Engineering offers an Master of Science in Engineering Management degree. This program makes use of the expertise and resources of the faculty of both the College of Engineering and the College of Business Administration. This program is intended for engineers who wish to remain in their engineering area of expertise but desire to improve their managerial skills and their understanding of business practices.

### Student Learning Outcomes

#### College of Engineering

#### Master of Science in Engineering Management

1. Demonstrate knowledge of engineering management methods for use in technology organizations.
2. Demonstrate knowledge of technical organizations at a strategic level, and the role and practices of the various business functions.
3. Demonstrate the ability to use modern tools for effective engineering management.
4. Demonstrate the ability to communicate effectively.

### Admission

Students admitted into the master of science of engineering management must possess an undergraduate degree in engineering. Applicants are expected to have an undergraduate GPA of at least 3.0. Applicants who have an undergraduate GPA between 2.5 and 3.0 may be considered for admission on a case-by-case basis which will include a review of their last 60 hours of engineering course work and GRE scores. In addition, the student is required to complete the GRE, prior to consideration, with scores indicating that the student will perform well in a strong graduate program.

### Degree Requirements

Both the Non-Thesis and Thesis options are available for the degree of Master of Science in Engineering Management:

#### Non-thesis Option

Completion of 33 credit hours including 18 credit hours of required core courses and three credit hours for a capstone course. The remaining 12 credit hours must be selected from approved electives.

#### Thesis Option

Completion of 30 credit hours including six credit hours of thesis research, and 18 credit hours of required core courses. The remaining six credit hours must be selected from approved electives.

## Doctor of Philosophy in Engineering and Applied Science

The Doctor of Philosophy in Engineering and Applied Science is an interdisciplinary, integrative degree involving faculty from the College of Engineering and the College of Sciences. The program is designed for those engineers who will extend the frontiers of engineering. The graduate will have knowledge that is both broad in fundamentals as well as strongly focused in the area of his/her research. Research is the centerpiece of a Ph.D. program. It is expected that the graduate's research will substantially expand the knowledge of the engineering profession.

### Student Learning Outcomes

## College of Engineering

### Ph.D. in Engineering and Applied Science

1. Ability to apply basic engineering concepts as demonstrated by the results of the Qualifying Procedures
2. Ability to apply advanced concepts, both Colleges to develop Ph.D. Research
3. The candidate will have the approval of the Ph.D. Dissertation Committee for the scope of the Ph.D. Dissertation
4. Ability to perform advanced engineering and/or science research
5. Ability to publish research
6. Final approval of the Ph.D.

### Admission

Admission to the doctoral program is based on reasonable evidence that the applicant will prove capable of scholarly research on a broad intellectual foundation. All students enrolling in the program must have a Master's degree from an accredited college or university in engineering, physics, mathematics, earth and environmental sciences, computer science, or a closely related field, or be willing to complete coursework required in an existing Master's program in one of the participating departments at UNO while pursuing the Ph.D. Admission decisions will be based primarily on grade-point average, Graduate Record Examination scores, and letters of recommendation. Foreign applicants (non-English speaking countries) must also provide proof of English proficiency (see Graduate School).

### Degree Requirements

Following are the formal procedural requirements for students to receive the Ph.D. degree in Engineering and Applied Science.

Ph.D. candidates must complete a minimum of 51 semester credit hours of graduate course work in an approved program beyond the Bachelor's degree, not including dissertation research. The credit hours may include up to 30 semester hour credits obtained in a Master's degree program, if the area of the Master's degree is relevant to the doctoral program. Up to six of these 30 credits may be for thesis research. A doctoral dissertation based on the results of original research under the guidance of a faculty committee and defended in a public examination is required for the completion of the doctoral program. At least 30 semester hours of dissertation research must be earned.

Departments participating in the program are Civil and Environmental Engineering, Electrical Engineering, Engineering Management, Mechanical Engineering, Naval Architecture and Marine Engineering, Computer Science, Earth and Environmental Sciences, Mathematics, and Physics. The student's dissertation advisory committee will consist of at least five members. No more than three can be from any one department. There must be at least one committee member from each of the colleges of Engineering and Sciences. Program qualification, in the form of a Qualifying Examination, is administered by the department of the principal advisor(s). It is based on material in a typical departmentalized master's degree program, or equivalent. Courses are chosen with the consent of the dissertation advisory committee. The committee shall consider the interdisciplinary nature of the program when it approves the courses. A minimum of nine credits (three courses) must be taken in each college. A General (comprehensive) Examination will be administered by the dissertation advisory committee. The examination will be based on material in the student's program of study. After passing the General Examination the Ph.D. student is expected to write a dissertation prospectus and defend it before the dissertation advisory committee. After a successful defense and committee approval of the prospectus, the student may pursue research leading to the dissertation. The dissertation should reflect the interdisciplinary nature of the program. There must be a final public defense of the dissertation administered by the dissertation advisory committee.

### Financial Aid

Teaching and research assistantships are available to qualified graduate students on a competitive basis.



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# General Graduate Program Requirements

## Master's Degree

### Course Requirements

The minimum requirement for a master's degree at the University of New Orleans is 30 semester hours of graduate work, including no more than six hours allowed for research and writing of a thesis. Many degree programs require more than the minimum and students should check the program description for requirements. Graduate credit is awarded for courses numbered 5000-level and above. As a minimum, a student must earn at least half of the required semester hours of work (including not over six hours of thesis credit) in courses numbered 6000 or above. Some departments require more than these minimum standards.

### Time Limit

Programs for master's degrees must be completed within six years. A student may request an extension beyond the time limit with approval from the program and the Executive Director of Graduate School. Courses over fifteen years old will not normally be considered for an exception. A Request for Extension of the time limit form along with a statement of support from the degree program must be submitted to the Graduate School.

### Admission to Candidacy

Admission to the Graduate School does not imply admission of a student to candidacy for a master's degree. Admission to candidacy is contingent upon the recommendation of the student's program and approval by the Graduate School, after meeting the formal requirements below.

A student will be admitted to candidacy for a master's degree only after having attained unconditional graduate standing, completed at least 12 semester hours of work with a B average or better and a B average or better overall at the University of New Orleans, and received approval of the student's major department for such admission. Formal application must be filed in the Graduate School Office not later than a date announced in the calendar. Acceptance of the application rests with the major professor and the Executive Director of Graduate School. The application for candidacy includes the coursework required to complete the degree. The graduate student must adhere to the program outlined on the application. Any changes must be approved by the department and by the Graduate School in writing.

### Foreign Language Requirement

Some departments require a reading knowledge of at least one foreign language (classical or modern) for the master's degree. Students should discuss this matter with their major professor as early as possible.

### Thesis

In most departments the preparation of a thesis is an important element in the program leading toward the master's degree. A master's thesis should demonstrate capacity for research, originality of thought, and competency in organization. It must be acceptable in subject matter and exhibit proficiency in composition.

Instructions on preparation of the thesis may be obtained from the Graduate School website (<http://www.uno.edu/grad>).

Final acceptance of a master's thesis rests with a special committee of three or more members who are nominated by the chair of the department in which major work is taken and are appointed by the Executive Director of the Graduate School. The major professor is designated chair of this committee. One member ordinarily represents a minor field. The results of the examination will be submitted to the Graduate School along with student and committee verification of copyright agreement, manuscript access level and Human and Animal Subject committee compliance.

Upon committee approval, the thesis is to be submitted to the Graduate School for approval of the format.

## Comprehensive and Final Examinations

After a candidate's course work is at least substantially complete, the candidate will be required to pass a comprehensive examination. This exam may consist of

1. A written and/or oral examination based on the content of the degree program;
2. A thesis and final oral defense;
3. A "capstone" course requiring interpretation and integration of information from previous courses;
4. A research paper, a "policy and practice" paper, or equivalent experience;
5. A public performance or exhibition along with a contextualizing paper; and/or
6. A practicum or internship.

If the comprehensive exam requirement is met with option 1 and/or 2 (above) then the examining committee for comprehensive examinations must consist of at least three members of the graduate faculty appointed by the Executive Director of the Graduate School. The candidate for degree must be physically present at the examination. In the case of extreme and unusual hardship the examining committee may make alternative arrangements.

## Doctor of Philosophy Degree

The Doctor of Philosophy (Ph.D.) is the highest degree offered by the University of New Orleans. It is conferred only for work of distinction in which the student displays power of original scholarship and only in recognition of achievement and marked ability.

The degree is not awarded solely on the basis of study, extending over any prescribed period of time. Nothing in the following summary of minimum standards should be construed to imply that the degree will be granted merely in recognition of faithful performance of prescribed work.

The basic requirements are twofold:

1. To be admitted to candidacy an applicant must exhibit unmistakable evidence of penetrating mastery of a rather broad major field, which is ordinarily done in a general examination.
2. A candidate must prove ability to complete a significant program of original research, which is done in a dissertation embodying creative scholarship and by passing a rigorous final examination. The dissertation must add to the sum of existing knowledge, and it must be presented with literary skill.

The degree must be completed within six calendar years following admission to candidacy (upon completion of General Examination), or less, if specified by the individual college or program. Prior work applied to the degree (including transfer and locally-earned credits) must have been completed within nine calendar years immediately preceding the date on which the degree is conferred. An extension may be granted if approved by the Graduate Council.

While the degree of Doctor of Philosophy cannot be earned simply by passing courses, the program of work prescribed ordinarily provides for a minimum of at least 60 semester hours beyond requirements for the baccalaureate degree. Although coursework requirements are concentrated in the student's major field, a certain amount of work is always required in one or two minor fields. All coursework programs require approval of the Executive Director of Graduate School. Graduate course work taken at another institution with grades of "A", "B",

“P”, “S”, or equivalent is not subject to the policy on transfer of credit for the master’s degree and may be included in the program of study, if approved by the program, the student’s advisory committee, and the Executive Director of Graduate School.

## Residence Requirement

A doctoral student must earn two consecutive semesters of a minimum of nine hours of residence. The doctoral residence requirement may be met alternatively by three semesters of enrollment at six or more hours, which may be non-consecutive.

The purpose of residency is to provide the doctoral student with significant time for sustained contact with faculty members, an opportunity for research, and time to incorporate professional values into the graduate school experience.

Students who are in residence for the purpose of the above requirement are expected to devote all of their energies to graduate study under the direct supervision of a major professor and/or advisory committee.

## Qualifying Examination

Early in the student’s program of graduate study the major department may evaluate the doctoral student for suitability to pursue the doctoral degree. Each graduate program has its own procedure for this evaluation, which may involve written or oral examinations, performance in coursework, or other means.

Student becomes an applicant for the doctorate after passing the Qualifying Examination, if one is required by the program, or at the end of the first year of enrollment in the doctoral program.

## Language Examinations

Each doctoral program has specific requirements for proficiency in a foreign language or for the mastery of certain equivalent research skills. These requirements should be met as early as possible, in no case later than the application for the general examination. Consult with the graduate coordinator of the program for further information.

## Advisory Committee

An applicant for the doctorate will develop a program of study with the advice and help of a dissertation committee. The committee composition will include at least three members from the major department or a related program. The department chair or designee appoints the committee after consultation with the student and his/her major professor. The Executive Director of the Graduate School approves the composition of the committee and may appoint additional members. This committee will serve as the examination committee for the general examination.

## General Examination

An applicant becomes eligible for the general examination after satisfying the language requirement, completing a substantial portion of the coursework, and demonstrating adequate academic and professional preparation for independent research. The general examination is ordinarily the most rigorous test in the entire program for the doctorate. The examination may be oral, written, or both according to the rules of the program. The content of the examination must be comprehensive enough to demonstrate expert competence over broad segments of the major field and evidence of deep and current knowledge in the student’s chosen specialty as well as evidence of progress in research. In most cases the remainder of a student’s time will involve concentrated work on the dissertation and preparation for the final examination.

## Candidacy

Doctoral candidacy involves formal notification to and certification by the Graduate School that a student has demonstrated superior learning and working capacities, has completed or very nearly completed all course work and other formal degree requirements, and has passed the general examination. Students who have met all the requirements for candidacy must file for candidacy with the Graduate School. The forms are available from the Graduate School website, (<http://www.uno.edu/grad> ). Once the forms are approved by the Executive Director of the Graduate School, the student becomes a candidate for the doctorate.

## Dissertation

The dissertation must demonstrate a mastery of research techniques, ability to do original and independent research, and skill in formulating conclusions that in some way enlarge upon or modify knowledge in their major field. The results must be presented in a scholarly and literate form. Research involving human or animal subjects must be approved by the Committees on Human and Animal Subjects and verification of approval must appear in the final version of the dissertation.

The form and style of the dissertation should follow the accepted practices of the major field concerned. Additional information about acceptable dissertation layout is available from the Graduate School (<http://www.uno.edu/grad>). After dissertation committee approval, the student must submit the dissertation to the Graduate School by the stated deadline for approval of the format. Doctoral students must complete the UMI Author Agreement Form allowing the student's abstract and title to appear in the Dissertation Abstract International Index.

### Final Examination

The chair of the student's major department must file a request in the Graduate School for the final examination no later than two weeks prior to the examination date. The final examination application is submitted on a form available from the Graduate School website (<http://www.uno.edu/grad>). The final examination committee will be appointed by the Executive Director of Graduate School and will usually consist of the student's dissertation committee to which one or more additions may be made as representatives of the Graduate Faculty.

Although the final examination is traditionally conducted as an oral test which is concerned primarily with the dissertation and related problems, the content may be varied in any way the committee decides and may extend into subject matter related to major and minor fields even though well removed from topics suggested by the dissertation. The candidate for degree must be physically present at the defense of the manuscript. In the case of extreme and unusual hardship the examining committee may make alternative arrangements.

### Certification

In order to pass the final examination, there must be no more than one negative vote on a committee with four or more members. The results of the examination, along with the student and committee verification of copyright agreement, manuscript access level, and Human and Animal Subject Committee compliance must be turned in to the Graduate School Office. The candidate will be certified to the University of Louisiana Board of Supervisors by the Executive Director of Graduate School as having fulfilled all requirements for the degree of Doctor of Philosophy.



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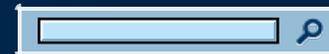
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# Graduate Programs in Liberal Arts

## Applied Anthropology Track

The Department of Anthropology and the Department of Planning and Urban Studies in the School of Urban and Regional Studies provide an Applied Urban Anthropology track within the Master of Science in Urban Studies.

The program allows students to gain significant background in applied anthropology through course work in cultural anthropology, cultural resource management, and preservation. Applicants must submit transcripts of prior academic work, Graduate Record Examination scores, and three letters of recommendation. Please refer to a detailed description of the program in the Master of Science in Urban Studies degree section in this catalog.

## Arts Administration

The Master of Arts in Arts Administration is designed to prepare students to serve as administrators and managers in all types of arts and cultural institutions in both the performing and visual arts—not-for-profit and commercial, established and startup—among them museums, galleries, theatrical producers, performing arts centers, and festivals. In addition to courses taught by leading experts, the Program is fully engaged with the national and local cultural infrastructure and committed to intensive professional interaction and practical student experience.

### [Student Learning Outcomes](#)

#### [College of Liberal Arts](#)

#### [Master of Arts in Arts Administration](#)

The exciting field of Arts Management encompasses a wide range of activities vital to the dynamic interaction of culture and society. Including both performing arts center and museum management, and encompassing producing, fundraising, marketing, strategic planning, financial management, public arts policy, and legal issues surrounding intellectual property and deal making, the field welcomes people with diverse interests, backgrounds and aptitudes.

The UNO Graduate Program in Arts Administration focuses on both the nonprofit and commercial sectors in visual and performing arts, and is centered on real world experience and preparation of students for leadership in this evolving and increasingly professionalized field. The Program aligns with the goals established by the international Association of Arts Administration Educators (AAAE).

Specific Student Learning Outcomes include:

1. An understanding of the essential elements of and skills required for effective Arts and Cultural Management. This includes an industry awareness of best practices, issues and trends in marketing, development, finance and legal, and management overview of visual and performing arts organizations.
2. An understanding of contemporary and historic social environments, patterns and trends in which culture and arts exist in society.
3. An appreciation of the unique product and producers—art and artists—which are the society's cultural

lifeblood.

Taken together, the industry, environment and content knowledge prepare Program graduates to be leaders in this dynamic global field.

The UNO Program takes full advantage of its location in the heart of one of America's most dynamic cultural cities and promotes student interaction with New Orleans-area artists and institutions of all sizes working in visual and performing arts, arts philanthropy and public arts policy. The Program encourages practical work experience, and it is not uncommon for students to receive employment at institutions in which they have interned or volunteered while in the Program.

UNO Program students and faculty participate in a wide range of professional conferences held in New Orleans and elsewhere, often with students receiving financial travel support from the UNO Student Government. While many capstone internships take place in New Orleans, those students with interest in going beyond the city are encouraged to do so. Successful Program internships occur with national organizations as diverse as the South-by-Southwest Festival in Austin TX, the Smithsonian Institution in Washington DC, the Alabama Ballet, The Tampa Bay Performing Arts Center and the Guggenheim Museum in New York City.

### Admission

A student must be accepted by both the Graduate School and the Arts Administration Program. To be admitted to graduate studies in Arts Administration, a student must have:

1. A bachelor's degree from an accredited college or university;
2. A satisfactory score on the Graduate Record Examination or the Graduate Management Admission Test;
3. A grade-point average of 3.0 for both undergraduate and post-baccalaureate work, on a 4-point scale; and
4. Satisfactory academic standing at the last college or university attended.

In addition to the above, experience in business and/or the arts is desirable but not required.

### Program Scope

The Program encompasses a full range of topics associated with the visual and performing arts business and cultural infrastructure. With faculty guidance, during the course of their studies students will choose and pursue areas of specialization and pursue a pattern of study best suited to their interests and career goals.

### Degree Requirements

Students must earn 45 credit hours, including 6 from a supervised Internship.

Requirements are:

#1) Core required courses (11):

- AADM 5223 Not-for-Profit Finance for Arts Administrators
- AADM 6246 Arts Technology Overview
- AADM 6501 Development Strategies for Arts Organizations
- AADM 6502 Arts Administration: Legal & Business Applications
- AADM 6503 Marketing the Arts
- AADM 6504 An Overview of the Field of Theatre Arts
- AADM 6505 Visual Arts for Arts Administrators
- AADM 6506 Musical Overview for Arts Administrators
- AADM 6601 Writing & Presentation for Arts Administrators
- AADM 6603 Arts, Artists & Administrators
- AADM 6605 Seminar in Arts Administration

## #2) Electives (2, chosen from the following)

- AADM 6607 Public Arts Policy and Advocacy
- AADM 6609 Arts and Community
- AADM 6900 Practicums (maximum two per student)
- AADM 6090 Independent study
- Museum Studies courses in the SUNO Graduate School (cross-enrollment)
- Alternative UNO graduate course

## #3) Capstone degree requirements:

- Comprehensive exams in the areas of Development, Marketing and Legal
- AADM 6990 A supervised internship of 480 documented hours with an approved cultural institution (6 credit hours)
- Internship Report (non-thesis) presentation and committee defense

## Financial Aid

Graduate assistantships are available through the Program to a limited number of qualified applicants each year.

Limited scholarships are available.

# English

## Master of Arts Programs

The Master of Arts program in English is designed to develop the student's knowledge of literature and language and skill in literary research and criticism. Though it is aimed primarily at preparing students for further graduate study leading to the degree of Doctor of Philosophy, the program also provides training for teachers of English in secondary schools and colleges and offers the opportunity for rigorous advanced study in the humanities preparing qualified persons for nonacademic professions.

## Student Learning Outcomes

### College of Liberal Arts Master of Arts in English

1. Students will have advanced, comprehensive knowledge—mastery of the field of English Studies.
2. Students will develop advanced research skills.
3. Students will develop advanced analytical skills.
4. Students will develop advanced writing skills

## Admission

Admission is based on undergraduate and graduate GPA, GRE scores, and a statement of purpose. Applications are accepted at any time; students may enroll in any semester.

## Master of Arts in English Degree Requirements

The Master of Arts in English Program requires its students to take a number of core courses, to choose a concentration, to take the courses required for that concentration, and to complete 30 or 36 credit hours. Students who choose to demonstrate a reading knowledge of an appropriate foreign language are required to take 30 hours to complete their degree. Those who do not choose the foreign language option are required to take 36 hours to

complete their degree.

The core courses are: ENGL 6280, 6230 or 6231; one course in British Literature numbered 4000 or above; one course in American Literature 4000 or above; one course in writing or rhetoric numbered 4000 or above.

There are four possible concentrations, and they are configured as follows:

#### **Concentration in American Literature**

1. One of the following: ENGL 5030, 5031, 5091, 6001, or 6090 (where appropriate as determined by the Graduate Coordinator) and
2. One of the following: ENGL 5032, 5033, 5034, 5092, 5093, 6007, or 6090 (where appropriate as determined by the Graduate Coordinator) and
3. One additional American Literature course numbered 5000 or above.

#### **Concentration in British Literature**

1. One of the following: ENGL 5401, 5421, 5501, 5516, 5521, 5522, 5601, 5616, 5621, 6400, 6480, 6500, 6520, 6600 and
2. One of the following: ENGL 5701, 5702, 5715, 5716, 5801, 5802, 5807, 5808, 5815, 6700, 6801, 6807, or 6900 and
3. One additional British Literature course numbered 4000G or above.

#### **Concentration in Professional Writing**

1. ENGL 5152 and
2. One Journalism course numbered 5000 or above and
3. One of the following: ENGL 5151, 5154, 5158, 6232, 6154, or 6390 (where appropriate as determined by the Graduate Coordinator), or 6398

#### **Concentration in Teaching**

1. ENGL 6281 and
2. One of the following: ENGL 5151, 5154, 5161, 5163, 6151, 6154, 6161, 6163, 6230, 6232 or 6390 (where appropriate as determined by the Graduate Coordinator) and
3. One additional course in literature numbered 5000 or above.

All students admitted to the graduate program will be referred to the Coordinator of Graduate Studies in English, who will guide each student in selecting and following a sound program of study suited to his or her needs and level of preparation. This program may, in individual cases, involve more course work than is specified in the general requirements for the degree. In all cases, a minimum of 18 hours must be earned in English courses numbered 6000 and above. One three-hour Directed Study course (English 6397) may be counted toward fulfillment of this minimum requirement. For those students who select the thesis option, three hours of Thesis Research (English 7000) will count toward the 18-hour requirement.

All students must take a three-hour written comprehensive examination in one of the following fields: American Literature; British Literature; Rhetoric and Composition; Classical Rhetoric; or Professional Writing. Students may choose to take another comprehensive examination in another of the fields above; or they may instead write and defend a thesis. The M.A. thesis (usually 30-40 pages long) is written under the supervision of an advisor assigned to the student by the Graduate Coordinator. Credit for English 7000 (Thesis Research) is granted only after the candidate has passed a one-hour oral examination on the thesis administered by a committee appointed by the Dean of the Graduate School and the thesis has been approved by the committee.

## **Master of Fine Arts in Creative Writing**

### **Student Learning Outcomes**

#### **College of Liberal Arts**

#### **Master of Fine Arts in Creative Writing Workshop**

1. Students will learn to produce high quality work in their genres: fiction writing, poetry, nonfiction writing,

screenwriting, playwriting

2. Students will learn the skills of professional editing, skills that are taught, along with writing in the core workshops.
3. CWW graduates will learn to produce book-length manuscripts in their genres.
4. Students will develop analytic expertise in their genres. Students will be able to identify and analyze elements in their genre (in fiction, for example: plot characterization, style, point of view) and be able to comment on and manipulate these techniques, these skills are taught in genre workshops.
5. All students will learn to identify characteristics of English grammar, mechanics, and usage and apply them to their own and to the texts of others.

### Admission

An applicant is accepted for graduate work upon the recommendation of the creative writing faculty and subsequent admission to the Graduate School. Students must hold a bachelor's degree and must possess clearly demonstrated skills in a creative writing genre. Graduate Record Examination scores, undergraduate transcripts, a personal statement, and three letters of recommendation should be submitted. All applicants must identify the genre in which they plan to specialize and submit a portfolio of their writing in the genre (two plays of any length, a feature-length film script, two short stories or a 25-page novel excerpt, ten poems, two short nonfiction pieces, or a 35-page book excerpt).

### Degree Requirements

#### Resident option

- Completion of at least 45 hours of Film and Theatre, and English courses.
- Fifteen hours of 6000-level course work in creative writing workshop, at least 12 of which will be in the thesis genre. These required courses are: for fiction writing, English 6161; for poetry writing, English 6163; for nonfiction writing, English 6154; for playwriting, Film and Theatre 6200; and for screenwriting, Film and Theatre 6250.
- Three hours in Form and Idea, Film and Theatre 6020; three hours in nonfiction writing English 6154. For students whose genre is nonfiction writing, a sixth required workshop in a genre other than nonfiction is required in place of the three required hours in English 6154 required of students in the other genres.
- Nine hours in background courses.
- Fiction and poetry writing students will be required to take this in the literature of their genre.
- Screenwriting and playwriting students will be required to take six hours of techniques courses and a three-hour course in their genre area.
- A grade of B or better in all required course work.
- Nine hours of electives. Chosen in consultation with the Director of Creative Writing, these elective hours will be expected to conform to a cohesive program of study.
- An overall GPA of 3.0 in elective courses.
- A creative thesis for which the student may receive six hours of preparation credit. The creative writing thesis will be prepared under the supervision of a committee approved by the Executive Director of the Graduate School. The committee will ordinarily consist of three members of the graduate faculties of the departments of Film and Theatre and English, the thesis director and at least one other member must teach in the student's genre area.
- A comprehensive exam in the student's genre area that will be prepared, administered, and graded by the thesis committee. It will concern itself with the literature of the student's genre area. Students who hold master's degrees from other UNO programs may apply for admission, but upon acceptance they must meet all requirements for the Master of Fine Arts degree listed above and must complete 36 hours of resident or non-resident work at UNO, including all 15 hours in writing workshop courses.

### Financial Aid

Graduate assistantships are also available for qualified students in all Master of Fine Arts programs of study.

### Low Residency Option

- The Low Residency Master of Fine Arts is a unique option within the Master of Fine Arts in Creative Writing. Low Residency Master of Fine Arts students take all their courses off-campus, either at one of UNO's summer study abroad sites in Europe, or via distance learning. The program is a 45 hour terminal degree, with the curriculum centered on 18 hours of creative writing workshops, plus 12 hours of background courses, nine hours of electives, and six hours of thesis preparation; the required courses

mirror the resident Master of Fine Arts degree.

- Completion of at least 45 hours of Film and Theatre and English courses. 18 hours of which must be in residence.
- Fifteen hours of 6000-level course work in creative writing workshops, at least 12 of which will be in the thesis genre area, 6 of those hours to be taken in residence. An additional 3 hours of creative writing workshops in any genre must be taken in residence, for a total of 9 hours of creative writing workshops in residence. These required courses are: for fiction writing English 6171 or 6191; for poetry writing, English 6173 or 6193; for playwriting, Film and Theatre 6207 or 6209; and for screenwriting, Film and Theatre 6257 or 6259.
- Three hours in Form and Idea, Film and Theatre 6020; three hours in Non-Fiction Writing, English 6154 or 6194.
- Nine hours in background courses.
- Fiction and poetry writing students will be required.
- Screenwriting and playwriting students will be required to take six hours of techniques courses and a three-hour history course in their genre area.
- A grade of B or better in all required course work.
- Nine hours of electives. Chosen in consultation with the Director of Creative Writing, these elective hours will be expected to conform to a cohesive program of study.
- An overall GPA of 3.0 in elective courses.
- A creative thesis for which the student may receive six hours of preparation credit. The creative writing thesis will be prepared under the supervision of a committee approved by the Executive Director of the Graduate School. This committee will ordinarily consist of three members of the graduate faculties of the departments of Film and Theatre and English.
- A comprehensive exam in the student's genre area that will be prepared, administered, and graded by the thesis committee. It will concern itself with the literature of the student's genre area.

## Film and Theatre

### Master of Fine Arts in Film and Theatre

The Department of Film and Theatre offers the Master of Fine Arts degree with a concentration in Performance and Production. Students may elect to concentrate in Film Arts---Production, Theatre Arts---Performance or Design. The Department is accredited by the National Association of Schools of Theatre. Master of Fine Arts programs in Theatre Arts reflect NAST's highest standards. The Master of Fine Arts is a terminal degree for students interested in pursuing careers in film production, theatre arts, and in creative writing. Areas of specialization in Film Arts and Theatre Arts include filmmaking, acting, directing, and design.

#### Admission

An applicant is accepted for graduate work in film and theatre arts upon recommendation of the graduate committee and subsequent admission to the Graduate School. Students must hold a bachelor's degree in film or theatre arts or must possess clearly demonstrated skills and creative ability in their field. Graduate Record Examination scores and at least three letters of recommendation should be submitted. All applicants must submit evidence of their ability in the proposed area of specialization. Auditions, prompt books, portfolios, manuscripts, video tapes, films, and other appropriate presentations are to be submitted to the department when application for admission is completed.

In addition to the requirements of the Graduate School, the following must be met:

- Satisfactory completion of at least 60 hours of Film and Theatre Arts courses. With written permission of the department, the candidate may take up to six hours in a field outside the department.
- At the completion of 18 or more hours of course work the student will be evaluated by the graduate committee. If the first year review demonstrates sufficient progress, the student will be invited to continue in the program.
- A grade-point average of 3.0 or better is required in all course work.
- Normally students must be in residence at least two semesters taking a full load of at least nine hours each semester. Summer sessions may not apply. Under special circumstances this residency requirement may be waived by the department. Upon completion of one-half of the student's required work, his or her major professor will be designated by the department. Ordinarily this professor will serve as chairman of both the examining committee and the publicly presented creative thesis project.

## Degree Requirements

Master of Fine Arts tracks in Film and Theatre Arts require the following 18 hour core:

6020 Form and Idea in the Media	3
6040 Performance and Direction	3
6060 Concept, Conflict, and Character	3
6910 Studio Thesis I	3
6911 Studio Thesis II	3
6912 Studio Thesis III	3
6005 Graduate Studies in Orientation	0

## Master of Fine Arts in Film and Theatre Track in Film Arts - Production

### Student Learning Outcomes

#### College of Liberal Arts

#### Master of Fine Arts in Film Production

1. Film Master of Fine Arts students will demonstrate competency in a broad spectrum of film theory and production
2. Film production Master of Fine Arts students will be able to complete a film project from inception to final cut.
3. Film Master of Fine Arts students will have a creative Theatre arts understanding
4. Department will maintain a high level of satisfaction with the overall Film production Master of Fine Arts program.

The Master of Fine Arts track in Film Arts includes a 27-credit hour production core which exposes students to the broad processes of filmmaking. Six credit hours of Analysis provide an important theoretical and historical framework for film production. The remaining nine credit hours (Application Electives) may be used to apply knowledge and training to a special focus within the curriculum.

### [M.F.A. in Film and Theatre Track in Film Arts Production Requirements \(27 hours required\)](#)

#### I. Production

5500 Film Development and Planning	3
6510 Narrative Film Production	3
6520 Narrative Film Postproduction	3
5530 Advanced Project in Film Production	3
5566 Sound I	3
5550 Cinematography	3
6565 Digital Theory and Application	3
6220 Screenwriting for Production	3
6580 Film Directing	3

#### II. Analysis (6 hours required)

5540 History of Cinema I	3
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or	
5541 History of Cinema II	3
5545 Film Theory and Criticism	3

### III. Application Electives (9 hrs. required) Select from list below.

5090-5095 Special Topics in Film and Theatre	6
5096 Special Topics in Film and Theatre	3
5460 Advanced Documentary Production	3
5551 Spring Film Crew	3
5555 Spring Film Production	3
5567 Sound II	1
5568 Special Topics: Visual Effects	3
5570 Advanced Film Acting	3
5575 Advanced Film Postproduction	3
5591 Film Styles and Genres	3
5600 Film Producing	3
5900 Internship in Film and Theatre	3
6001 Practicum in Production	3
6090 Directed Independent Study	3
6100 Visual Design for Stage and Screen	3
6240 Writing the Thesis Script	3
6250 Seminar in Screenwriting	3
6560 Directing the Documentary Film	3
6900 Graduate Internship	3

## Master of Fine Arts in Film and Theatre Tracks in Performance (Acting and Directing) and Design

Master of Fine Arts program tracks in Performance and Design are intended to prepare our graduate students to successfully apply acquired skills to the art of theatre, make significant cultural contributions to their community, or become leaders in an educational environment aspiring to the highest artistic standards.

### Student Learning Outcomes

#### College of Liberal Arts

#### Master of Fine Arts in Theatre Performance

1. Theatre Master of Fine Arts Performance students will develop their acting/directing techniques.
2. Theatre Master of Fine Arts Performance students will be able to apply theory in written and oral form.
3. Theatre Master of Fine Arts Performance students will be able to apply knowledge of their specialty within the discipline of film.
4. Department will maintain a high level of satisfaction with the overall Theatre Master of Fine Arts Performance program.

## Master of Fine Arts in Performance (Acting)

### Degree Requirements

I. Production/Literature (12 hrs. required) Select **four** courses from list below:

5260 Styles in Theatrical Production	3
5400 Development of Theatre	3
5450 Advanced Studies in Modern Theatre	3
5455 Advanced Studies in Contemporary Theatre	3
6001 Practicum in Production	3
6090 Directed Independent Study	3
6420 Problems in Performing and Visual Arts	3
6460 Aesthetics of Script Analysis	3

\* 5301 Voice Stylization may be substituted for three credits

\*\* 5333 Stage Combat or 5831 Movement Applications may be substituted for three credits.

## Master of Fine Arts in Performance (Directing)

### Degree Requirements

I. Production (6 hrs. required)

Select **two** courses from list below:

5260 Styles in Theatrical Production	3
6000 Practicum in Research	3
6001 Practicum in Production	3
6090 Directed Independent Study	3
6240 Problems in Performing and Visual Arts	3
6460 Aesthetics of Script Analysis	3
6900 Graduate Internship	3

II. Literature (6 hrs. required)

Required:

5450 Advanced Studies in Modern Theatre	3
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Plus select *one* course from the list below:

5400 Development of Theatre	3
5455 Advanced Studies in Contemporary Theatre	3
ENGL 5221 or 5222 Shakespeare	3
ENGL 5516 Beg. English Drama	3
ENGL 5916 20th Century Drama	3
ENGL 5716 18th Century Drama	3

**III. Directing Area (30 hrs. required)**

5300 Voice Training or 5301 Voice Stylization	3
6200 Seminar in Playwriting	3
6330 Acting	3
6380 Directing	6
6830 Stage Movement	3
Plus, <i>two</i> courses in any design area(s)	6
And, <i>two</i> courses from Sections II or III not previously chosen	6

**Master of Fine Arts in Theatre Design****Student Learning Outcomes****College of Liberal Arts****Master of Fine Arts in Theatre Design**

1. Theatre Design Master of Fine Arts students will learn creative skills in the art of theatre design.
2. Theatre Design Master of Fine Arts students will demonstrate competency in a broad spectrum of theatre theory and production
3. Theatre Design Master of Fine Arts students will have a creative Film arts understanding.
4. Department will maintain a high level of satisfaction with the overall Theatre Design M.F.A program.

**Degree Requirements****I. Production (15 hrs. required)**

6001 Practicum in Production	3
6090 Directed Independent Study	3
6120 Scene Painting	3
6135 Rendering Techniques	3
5160 Lighting Crafts and Techniques	3

**II. Literature (3 hrs. required)**

5450 Advanced Studies in Modern Theatre	3
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**III. History (6 hrs. required)**

6125 Development of Style and Form	3
6150 Development of Fashion	3

**IV. Design (9 hrs. required)**

6110 Seminar in Scenic Design	3
6140 Seminar in Theatrical Costuming	3
6170 Seminar in Lighting Design	3

**V. Electives (9 hrs. required)**

6140 Seminar in Theatrical Costuming	3
6170 Seminar in Lighting Design	3
6110 Seminar in Scenic Design	3
6090 Directed Independent Study	3
5455 Advanced Studies in Contemporary Theatre	3
ENGL 5521 Shakespeare	3
ENGL 5522 Shakespeare	3
ENGL 5916 20th Century Drama	3
ENGL 5716 Restoration and 18th Century Drama	3

**Comprehensive Examination**

Normally students may take the Comprehensive Examination no sooner than the term in which they have completed 36 hours of graduate credit. This examination will be both written and oral. At least three members of the graduate faculty, one of whom may be from a department other than Film and Theatre, appointed by the Executive Director of the Graduate School, will administer the examination. Part of the examination will be devoted to questions based on the reading list and course work, and the remainder will be devoted to questions relating to the student's individual area of specialization.

**Publicly Presented Creative Thesis Project**

The thesis project will be prepared under the supervision of a committee appointed by the Executive Director of the Graduate School. This committee will ordinarily consist of three members of the graduate faculty of the department. After successful completion of the comprehensive examination, the candidate will submit a written prospectus for a publicly presented thesis project. The research and execution of this project will normally take nine studio hours. The Master of Fine Arts thesis project is designed to test the student's skill and knowledge in his or her area of specialization. The project is subject to the graduate committee's approval.

Students who have earned graduate credits in film, theatre, video, or its equivalent from other institutions may apply for admission into the Master of Fine Arts program. However, the maximum allowable transfer credit must conform to the Graduate School's policy on extension and transfer credit. Transfer credit is subject to the graduate coordinator's recommendation and approval by the Graduate School.

**Financial Aid**

Graduate assistantships are available to a limited number of qualified applicants each year.

**Fine Arts****Master of Fine Arts in Fine Arts**

The Master of Fine Arts program in Fine Arts is designed to provide professional training leading to a terminal degree in studio arts.

**Admission**

After a student has applied to the Graduate School, the application, images of work and letters of recommendation will be evaluated by the Committee on Graduate Studies of the Department of Fine Arts. To be accepted into the program, applicants must have an undergraduate degree and a high academic average in scholastic and studio work. Applicants who are admitted to the Fine Arts program will be assigned a sponsor by the Graduate Admissions Committee. The sponsor is a member of the Fine Arts Graduate Faculty who agrees to accept the responsibility of guiding the student through the program and who regularly teaches or exhibits professionally in the student's major area.

Students who are deficient in certain areas may be admitted on a conditional basis. They must complete both the regular requirements and fulfill the conditions imposed by the Committee on Graduate Studies.

### Degree Requirements

Students will be required to complete a minimum of 60 graduate credit hours, including six hours of thesis research. 30 hours must be in the major studio and 12 in the minor studio. 6 hours must be in graduate-level art history courses.

Midway through the program, the Master of Fine Arts student's eligibility for graduate candidacy will be determined by the Committee on Graduate Studies, who will arrange for an oral examination and review of the student's artwork. Once a student is approved for candidacy they may proceed to the preparation of the written thesis and exhibition.

### Financial Aid

Graduate assistantships are available to a limited number of qualified applicants each year.

## History

The graduate program leading to the Master of Arts degree in history provides intensive training for well qualified students in both European and American history. It serves to prepare students for work elsewhere at the doctorate level, to provide training for teachers in the secondary schools, and to offer advanced study in the humanities for those interested in nonacademic professions.

### Student Learning Outcomes

#### College of Liberal Arts

#### Master of Arts in History

1. Graduate students will demonstrate an advanced understanding of historical knowledge and scholastic skills.
2. Graduate students will be active participants within the historical & academic community, thereby building scholastic skills and preparing them for further history-related graduate training and careers in history-related fields.
3. Graduate students will produce scholarly material that incorporates their advanced understanding of historical knowledge and scholastic skills.

### Admission

Admission to the graduate history program will be determined by the department upon the basis of the applicant's personal statement, undergraduate transcripts reflecting a high level of undergraduate achievement (typically, a GPA of 3.0 or above), and two letters of recommendation from professors with whom the applicant has studied. For application instructions, prospective students should consult the department's website; <http://history.uno.edu/grad/>

### Degree Requirements

All candidates must complete a total of 30 credit hours, with at least 15 hours in courses at the 6000 level, a maximum of 12 hours at the 5000 level, and at least 3 hours of thesis research.

### Required Courses

1. History 6001 – Historical Writing and Thought.
2. History 6002 - Historical Methodologies and Research Design.
3. At least one history seminar from the following: HIST 6201, HIST 6301, HIST 6501, HIST 6601, or HIST 6803.
4. History 7000 – Thesis Research.

Only grades of B or better will be accepted toward fulfillment of degree requirements. The department

recommends enrolled students register every semester for HIST 6005 - Graduate History Forum.

The program will culminate with a thesis that demonstrates an appropriate level of skill in historical research and writing, as well as a comprehensive oral examination designed to test the student's general knowledge of history.

### Concentration in International and Global Studies

This concentration focuses on global, transnational and comparative approaches to the history of our increasingly interconnected world. In addition to the core history curriculum, a limited amount of interdisciplinary coursework that accentuates the interaction of states, societies, peoples and cultures over time will be deemed applicable. This concentration prepares students for both advanced graduate study and for careers in education, international organizations, government and the private sector. Students must complete a total of 30 credits hours and successfully defend a thesis.

#### Required Courses:

1. History 6001 – Historical Writing and Thought.
2. History 6002 - Historical Methodologies and Research Design.
3. History 6201: Seminar in World History
4. One additional 5000- or 6000 – level history course featuring significant international topics and material.
5. Three additional 5000- or 6000-level courses in other disciplines. These courses must be designated by the History Department's Graduate Coordinator as featuring significant international topics and material relevant to the candidate's course of study.
6. History 6992: History Internship
7. Approved electives (3 hours) at the 5000 or 6000 level.
8. History 7000: Thesis Research

Students internships may be performed in the United States or, preferably, at an overseas campus or other location abroad. Candidates for the International and Global Studies concentration must be certified as having a reading and oral proficiency in one modern foreign language. As with the standard curriculum, the concentration will culminate with a thesis and a comprehensive oral examination.

### Concentration in Public History

The concentration in public history is available to students interested in the practice and presentation of history for a public audience, beyond the academy. This concentration does not preclude pursuit of a doctorate in history, but it is designed to provide history students with the opportunity to use New Orleans as a laboratory in which to develop skills for work in museums and other public venues. The curriculum for this concentration combines history coursework with courses in the theory and practice of public history, and a three-hour internship at a local museum, archive, or library. Students in this concentration must complete a total of 30 credit hours in one of two tracks, culminating with a thesis and a comprehensive oral examination.

### Local & Community Track

This track allows students to focus on historical issues of local and community interest. In addition to other coursework, students will be placed in an internship position at a local institution with the help of the internship coordinator.

#### Required Courses

- HIST 6001 Historical Writing and Thought
- HIST 6002 Historical Methodologies and Research Design
- One seminar from the following: HIST 6201, 6301, 6501, HIST 6601, or HIST 6803

HIST 6008 Introduction to Public History

- HIST 5008 Public History Methods or HIST 5012 Digital History
- HIST 5603 Research in New Orleans History
- HIST 6992 History Internship
- Approved electives (6 hours) at the 5000 or 6000 level
- HIST 7000 Thesis Research

### Military Track

This track allows students to focus on issues pertaining to military history. In addition to other coursework, students will be placed in an internship position at a local historical museum or site with the help of the internship coordinator.

### Required Courses

- HIST 6001 Historical Writing and Thought
- History 6002 History Methodologies and Research Design
- One seminar from the following: HIST 6201, 6301, 6501, HIST 6601, or HIST 6803
- HIST 6008 Introduction to Public History
- HIST 5008 Public History Methods or HIST 5012 Digital History
- HIST 5003 Modern Military History
- HIST 5565 U.S. Military History
- HIST 6992 History Internship
- Approved electives (3 hours) at the 5000 or 6000 level
- HIST 7000 Thesis Research

### Financial Aid

Graduate assistantships are available to a limited number of qualified applicants each year.

## Music

### Master of Music Degree

The Department of Music offers the Master of Music degree with concentrations in performance, conducting (choral or instrumental), composition, and jazz studies. The program of study requires a minimum of 33 graduate credit hours to include course work in the applied area, music theory, music history, electives in music, recital or composition, and participation in the graduate colloquium.

### Student Learning Outcomes

#### College of Liberal Arts

#### Master of Music in Music

1. Students will be able to create music at a high level of accomplishment utilizing the skills and knowledge appropriate for their area of specialization.
2. Students will be able to place music in appropriate historical, cultural, and stylistic contexts.
3. Students will employ aural, verbal, and visual analyses to communicate an understanding of the common elements and organizational patterns of music and their interaction.
4. Students will develop and defend musical judgments using written and oral communication

### Admission

In addition to the University application an audition and interview are required.

A student can be accepted into the graduate program in music in one of two categories:

1. Unconditional Acceptance: the student has sufficient background to enroll in the required 5000- and 6000-level courses immediately. No prerequisite courses are needed.
2. Conditional Acceptance: the student has some deficiencies in background skills. This student needs specific remedial courses before enrolling in the complete 5000- and 6000-level Master of Music curricula.

### Master of Music Degree Requirements

Completion of the Master of Music degree requires a minimum of 33 hours. At the end of the program, each student will present a graduate recital. Composition track students will also submit an original composition. A thesis is not required in any of the four concentrations. All courses are selected with the approval of the major advisor.

Comprehensive examinations, both oral and written, are required during the final semester. More detailed information on curricular requirements is available from the Music Department website at <http://www.music.uno.edu/>

### Financial Aid

A limited number of graduate assistantships and scholarships are available to qualified students enrolling in the Master of Music degree program.

## Political Science

The Department of Political Science offers comprehensive programs leading to the degrees of Master of Arts, Master of Public Administration and Doctor of Philosophy. The graduate program is designed to prepare professional political scientists and public administrators for careers in research and teaching, government, and public service.

### Admission to the Master of Arts and Doctor of Philosophy Programs

In assessing the admission of a student to the Master of Arts program, the Graduate Committee of the Department of Political Science evaluates the academic potential of a student based on the academic record and on the Graduate Record Examination general test scores.

An applicant to the Doctor of Philosophy program, in addition to the GRE general test scores, must submit three letters of recommendation from people familiar with the applicant's previous academic performance. Doctor of Philosophy students are expected to have attained a strong academic record on all work taken.

Master of Arts applicants interested in graduate assistantships, like the Doctor of Philosophy applicants, must submit three letters of recommendation.

### Non-Degree Students

The 6000-level courses offered by the Department of Political Science are open to non-degree students only by special permission of the department.

### Master of Arts in Political Science

#### Student Learning Outcomes

#### College of Liberal Arts

#### Master of Arts in Political Science

1. All graduates will have a demonstrated knowledge of the research tools and methodology necessary to analyze political information at an advanced level.
2. All graduates will have an understanding of domestic or foreign political processes and the ability to present their findings in mature academic writing.

- The Department of Political Science will prepare MA students for doctoral study in political science and/or related fields of study.

### Degree Requirements

The Master of Arts program is flexible, permitting students to adapt plans of study to their particular needs. The program prepares students for careers in teaching, research, and public service. Candidates must complete either (1) a minimum of 33 credit hours which includes six hours of thesis research or (2) 36 credit hours and no thesis. No more than nine hours in courses numbered below 6000 and no more than six hours of thesis research may be counted toward these minimum requirements. With permission of the Department up to six hours may be taken in related departments.

All students are required to demonstrate competence in statistics. This may be satisfied either by completing Political Science 6001 and 6002 with a grade of "B" or better or by passing a departmental examination in statistics.

Students who take thesis research will write a thesis which demonstrates an appropriate level of skill in research and writing in an accepted field of political science. Students writing a thesis must pass an oral defense of the thesis. Students who choose the non-thesis option must pass a written and possibly an oral examination, depending upon the outcome of the written exam.

### Doctor of Philosophy in Political Science

#### Student Learning Outcomes

#### College of Liberal Arts

#### Doctor of Philosophy in Political Science

- All Doctor of Philosophy graduates will have a demonstrated knowledge of the research tools and methodology necessary to gather political information and analyze it at an advanced level.
- All Doctor of Philosophy graduates will have an understanding of three fields in domestic and/or foreign political processes and the ability to communicate their findings to academic and other professional audiences.
- All graduates will be able to present a professional lecture on a current research topic
- Produce Doctor of Philosophy students who are well trained to teach at the college level.
- PhD graduates begin successful careers
- The Department of Political Science will obtain high satisfaction with its Doctor of Philosophy program.

### Degree Requirements

The doctoral program in political science provides intensive training in the following areas of concentration. Doctor of Philosophy candidates must select three from this list:

- US Politics (which may include institutions, behavior, minority and urban politics, public law, and/or public policy and administration foci).
- Comparative Politics
- International Relations

Doctor of Philosophy candidates must select three concentrations which may consist of either of the following combinations:

- a major in US Politics with two foci, and either Comparative Politics or International Relations as a third field; or
- all three fields with either Comparative Politics or International Relations as a major, and minors selected from the remaining fields.

### Requirements

Doctor of Philosophy students must complete a set of examinations and course work. The first is the Qualifying Exam. The Qualifying Exam in political science is an oral examination that may be taken the semester following the completion of 9 credit hours in the Doctor of Philosophy program, and must be taken no later than the semester following the completion of 15 credit hours. Students with an Master of Arts in political science from UNO, however, may take the qualifying examination during their first semester in the Doctor of Philosophy program, and they must take the examination no later than the semester following the completion of 15 credit hours. All students are encouraged to take this exam at the earliest feasible time. The exam may be repeated once. Failure to pass the exam on the second attempt results in termination from the program.

In addition to successful completion of the Qualifying Exam, a student must complete a minimum of 60 graduate credit hours overall. Included in this must be at least 30 credit hours in the student's areas of concentration, as determined by the Qualifying Committee. In addition, students must complete the research methods sequence of Political Science 6001, 6002, and 6003 with grades of "B" or better and six credit hours in dissertation research. Work taken toward a Master of Arts degree may be counted for this purpose, but at least 24 hours must be completed as a Doctor of Philosophy student.

After completion of all course work, but before completion of dissertation research, students must pass the General Exam. The candidate will be tested in two of the areas listed above. For majors in US Politics, both exams will be limited to US Politics. For majors in Comparative Politics and International Relations, the exam will consist of the major and one of the minor fields, as determined by the student's exam committee. The examination will be both oral and written. If the Doctor of Philosophy degree is not completed within five years after passing the General Exam, that examination must be retaken. The General Exam may be repeated once. Failure to pass the second attempt results in termination from the program.

Upon passing the general exam, students must prepare and submit a prospectus of the dissertation to a committee of faculty members. The prospectus must be defended in an oral examination. The student receives the Ph. D. once the dissertation is completed and defended.

Additional requirements are described in the Department's Guide to Graduate Study.

#### Financial Aid

Assistantships for 9 and 12 months may be available for a limited number of qualified applicants.

## Master of Public Administration Degree

The Master of Public Administration program is a professional degree for leaders and analysts in public and nonprofit organizations.

#### Student Learning Outcomes

##### College of Liberal Arts

##### M.P.A. in Public Administration

1. The program will ensure that all MPA graduates will have acquired the basic skills and knowledge required to function as leaders in the public and/or not-for-profit sectors.
2. The MPA program will maintain a high level of student satisfaction.
3. Graduates will have interaction with practicing public administrators in order to apply the knowledge gained in the classroom to practical problems in public administration.

#### Admission

In addition to the University application for admission, applicants must provide 3 letters of recommendation from individuals with knowledge of their professional or academic background, a resume, and a personal statement.

#### Degree Requirements

#### Prerequisites

- Economics – Micro or Macro (3 hrs)
- Political Science or American Government (3 hrs)
- Unmet prerequisites should be made up early in the program.

### Overview

- 42 total hours needed to complete the degree (excluding deficiencies or prerequisites)
- 27 hours of required courses
- 9 hours of electives
- 6 hours of thesis research and a thesis, or 6 hours of capstone courses and a final project. All masters students must include at least 15 hours of courses numbered 6000 or above in their programs of study.

### Required Courses

PADM 6001	Research Methods in Public Administration
PADM 6010	The Profession of Public Administration
PADM 6020	Bureaucracy and Democracy
PADM 6110	Public Budgeting
PADM 6160	Law and Ethics in Public Administration
PADM 6401	Administrative Behavior
PADM 6180	Human Resource Administration in the Public Sector
PADM 6410	Technology in Public Organizations
PADM 6201	Policy Analysis and Program Evaluation

### Thesis/Final Project Option

Students must choose either the thesis or the final project option

#### Thesis Option

PADM 7000 Thesis Research (6 hours) plus the thesis. Thesis students may take Capstone I in lieu of three hours of thesis research.

#### Final Project Option

This is an applied project completed in conjunction with a public service job or internship while enrolled in PADM 6901 and 6902 MPA Capstone I & II (3 hrs each).

#### Nonprofit Leadership Concentration

The MPA program offers a concentration in nonprofit leadership (NPL). The concentration consists of 15 hours: NPL students must complete the following courses which are currently offered under the Special Topics course PADM 4800:

PADM 5222	Legal & Ethical Issues in the Nonprofit Sector
PADM 5223	Financial Administration & Development
PADM 5220	Overview of the Nonprofit Sector
PADM 5221	Collaboration, Partnership & Coalitions Building
PADM 5224	Nonprofit Leadership (Leadership and Courage)

NPL students must also choose the thesis or non-thesis (final project) option. Thesis students may take PADM 6901 MPA Capstone I (3 hours) and PADM 7000 Thesis Research (3 hours).

### Graduate Certificate in Hazard Policy Studies

The Graduate Certificate in Hazard Policy Studies, offered by the Department of Political Science, is intended for full-time and non-degree seeking students and the wider regional community of public managers who are interested in broadening their knowledge and skills on the principles and fundamentals of hazard policy without taking a full degree program.

#### Admission

Students not seeking degrees by who wish to earn a graduate certificate in Hazard Policy Studies must submit an admissions application to UNO. Additionally, the applicant must hold a bachelor's degree from an accredited institution.

#### Admission Process

Visit the UNO admissions web site to fill out the online application:

<http://www.uno.edu/admissions/admissions/overview/applytoUNO>. Select non-degree seeking on the form.

Also submit official transcript(s) confirming completion of your bachelor's degree

#### Course Requirements

PADM 6130-US Disaster Policy & Administration (core required)	3
Two additional courses from:	
URBN 5150 – Planning for Hazards	3
SOC 5875 – Sociology of Disasters	3
GEOG 5805 – Fundamentals of Mapping and GIS	3

Other courses as approved by the MPA program director.

#### Changes

Students should check with the Department of Political Science about any revisions approved for the program, but which may not be reflected in this catalog.

## Romance Languages

### Master of Arts Program

The Master of Arts in Romance Languages (French or Spanish Option) offers the student a concentration in one of two areas: language/culture/civilization or literature. The program prepares students for further graduate study leading to the degree of Doctor of Philosophy and provides training for teachers of French or Spanish in secondary schools and colleges. It also offers the opportunity for rigorous advanced study in the humanities to qualified persons for nonacademic professions.

#### Student Learning Outcomes

##### College of Liberal Arts

##### Master of Arts in Romance Languages

1. The students will acquire advanced training in French and Spanish (linguistics, literatures, civilizations), and in compared Romance languages and cultures. (Non-thesis option)
2. The students will acquire advanced training in French and Spanish (linguistics, literatures, civilizations), and in compared Romance languages and cultures. (Thesis option)

### Admission

To be admitted to graduate studies in Romance Languages, a student must present an undergraduate record which indicates a high standard of achievement, normally with an overall B average. In addition, the Foreign Language Department will review the letters of recommendation. The Department of Foreign Languages may grant full or conditional admission. Students admitted on a conditional basis must fulfill the conditions imposed by the department in addition to the regular requirements for the degree. Students with the bachelor's degree in fields other than French or Spanish may be admitted on this conditional basis and allowed to make up deficiencies.

### Degree Requirements

#### A. Language/Culture/Civilization

1. 33 credits in course work with at least 15 in courses numbered over 6000 or 30 credits in course work with at least 15 in courses numbered over 6000, including up to 6 credits in thesis research.
2. A "B" average in all courses.
3. Satisfactory performance on a comprehensive examination (written and oral) which will test the student in three areas of linguistics/civilization and in one period of literature (areas and a period which he/she may select from those indicated in the Reading List for the Master of Arts comprehensive exam).
4. Reading knowledge at the 2002 proficiency level of a second Romance Language (French, Spanish, Portuguese and Italian) or Latin.

#### B. Literature

1. 30 credits in course work with at least 15 in courses numbered over 6000, including up to 6 credits in thesis research or 33 credits in coursework with at least 15 in courses numbered over 6000.
2. A "B" average in all courses.
3. Satisfactory performance on a comprehensive examination (written and oral) which will test the student in three periods of literature and one area of linguistics/civilization (periods and an area which he/she may select from those indicated in the Reading List for the Master of Arts in comprehensive exam).
4. Reading knowledge at the 2002 proficiency level of a second Romance Language (French, Spanish, Portuguese and Italian) or Latin.
5. All students admitted to the graduate program will be referred to the Departmental Coordinators of Graduate Studies, who will guide each student in selecting and following a sound program of study suited to needs and level of preparation. This program may, in individual cases, involve more course work than is specified in the general requirements for the degree. For purposes of clarification, it should be understood that the descriptions of 6000-level courses in the pages below are only categorical and that narrowed topics are always chosen for study within these broad categories.

The comprehensive examination is designed to test the candidate's knowledge of the language/culture/civilization or of the literature of his/her chosen field of study. The examination may be taken only after the candidate has passed the reading knowledge examination in a foreign language other than the major language area and has completed all of the course work. Ordinarily, the examination will be devoted to course work undertaken for the master's degree.

The thesis is written under the supervision of an advisor assigned to the student by the Coordinators of Graduate Studies in Romance Languages. Credit for Romance Languages 7000 (Thesis Research) is granted only after the thesis has been approved by a committee appointed by the Executive Director of the Graduate School and after the candidate has passed a one-hour oral examination on the thesis administered by this committee.

### Financial Aid

Assistantships in the Department of Foreign Languages are available for a limited number of qualified applicants each year. Requests for application forms and for additional information should be addressed to the Coordinator of Graduate Studies in Romance Languages.

## Sociology

The Master of Arts degree in Sociology provides advanced training for students and serves the employment needs of the larger New Orleans community. The dual mission of the program prepares students to pursue doctoral work in sociology and/or assists students in furthering their career goals through developing and upgrading research and analytical skills. The department offers a comprehensive program in sociology with special concentrations in the sociology of gender and environmental sociology.

### Student Learning Outcomes

#### College of Liberal Arts

#### Master of Arts in Sociology

1. Students will demonstrate advanced knowledge and analytical skills in core theoretical and methodological paradigms and within at least one substantive area of specialization.
2. Students are able to employ a range of techniques and methods used to gain sociological knowledge.
3. Students will learn research and analytical skills useful to find professional employment and to gain acceptance in Doctor of Philosophy programs of their choice
4. Graduates will be critical readers of both basic and applied sociological research.

### Admission

Admissions criteria include a good undergraduate record, three letters of recommendation, and satisfactory scores on the Graduate Record Examination. Students may also apply for graduate assistant positions. Students having the bachelor's degree in fields other than Sociology may be admitted, but are typically required to take an undergraduate theory course for which they receive graduate credit.

### Degree Requirements

Master of Arts students in Sociology may pursue a traditional thesis option, an applied sociology option, or a non-thesis option.

Students who pursue the thesis option must complete a minimum of 30 hours of course work at the graduate level which includes a core of required courses and electives. They must prepare a thesis and pass an oral examination covering the thesis topic.

Students who pursue the non-thesis option must complete 36 hours of course work, including a required course in qualitative methods.

Students selecting the applied sociology option must complete 30 hours of credit, write a research report based on two semesters of work in a public or private organization and pass an oral examination covering the completed report.

### Financial Aid

Teaching and research assistantships are available to qualified applicants each academic year, with a maximum appointment of two years.

## School of Urban Planning & Regional Studies

The School of Urban Planning and Regional Studies (SUPRS) is a unit of the College of Liberal Arts. The School offers four graduate degrees: Master of Science in Urban Studies (M.S.U.S.); Master of Urban and Regional Planning (M.U.R.P.); Master of Public Administration (M.P.A.); and Doctor of Philosophy (Ph.D.) in Urban Studies.

### Master of Science in Urban Studies, Master of Urban and Regional Planning, Doctor of Philosophy in Urban Studies

The M.S.U.S. program is interdisciplinary and offers training in a broad range of urban phenomena for persons who desire to enter such fields as cultural resource management, historic preservation, law, journalism, education, law enforcement and business, as well as other urban professions, or to further their study of cities and regions at the doctoral level. The M.U.R.P. program is fully accredited by the American Planning Association (APA) and

consists of professional training in planning cities and regions with special emphasis on the social, economic, environmental, political and physical aspects of metropolitan areas. The objective of the program is to prepare students for planning careers in city, regional, state and federal agencies; private consulting firms; public service organizations; and other public or private institutions. The program of study leading to the Doctor of Philosophy in Urban Studies enables students of exceptional ability to undertake advanced study and original research in the fields of urban affairs, urban history and urban and regional planning. The doctoral program's mission is to prepare students for careers in scholarly activity, applied research, and policy analysis.

### Admission for MSUS AND MURP Programs

The Department of Planning and Urban Studies faculty has instituted admission requirements for entrance into the MSUS and MURP programs in addition to those of the Graduate School, which include above average academic competence as evidenced in undergraduate work and Graduate Record Examination (GRE) scores. The Department of Planning and Urban Studies faculty will also take relevant experience into account, although it is not a specific requirement for application. Upon review of an applicant's credentials, the Department of Planning and Urban Studies may grant full or conditional admission to the MSUS or MURP program. If admission is conditional, the student may have to complete additional courses of study in addition to those for the desired program.

### Non-Degree Seeking Students

Persons who are interested in taking courses offered by the Department of Planning and Urban Studies, but not seeking a degree, are encouraged to enroll as a "special student" (undergraduate) or as a "non-degree seeking student" (graduate). Consult the appropriate catalog or contact the department office for assistance.

## Master of Science in Urban Studies

### Student Learning Outcomes

#### College of Liberal Arts

#### Master of Science in Urban Studies

1. Students will develop knowledge about contemporary urbanization trends and major urban studies topics
2. Students will develop in-depth knowledge in a defined area of specialization
3. Students will master the ability to read and understand both primary and secondary sources in urban studies
4. Students will become knowledgeable about both qualitative and quantitative research methods and analytical techniques

### Degree Requirements

The flexibility of the M.S.U.S. program has allowed students to pursue career fields that are emerging and may not be covered in more structured and traditional masters programs. There are strong subfields in Applied Urban Anthropology and Cultural Resource Management that are offered in conjunction with the UNO Department of Anthropology, a Geography subfield offered in conjunction with the Department of Geography, as well as Urban Planning and Historic Preservation subfields offered through the Planning and Urban Studies Department Other connections include Cultural and Ecotourism linked with the Kabacoff School of Hotel, Restaurant, Tourism and Cultural/Arts planning with the Arts Administration Program of the UNO College of Liberal Arts. Links to those programs can be found on the UNO Website.

### Overview

#### Thesis track

- 33-34 total credit hours
- 15 hours of core curriculum coursework
- 15-16 hours of specialization coursework
- 3 hours of thesis research
- Thesis

### Non thesis track

- 36-37 total credit hours
- 15 hours of core curriculum coursework
- 21-22 hours of specialization coursework
- Comprehensive exam

### Prerequisite Courses

An undergraduate economics course and an undergraduate statistics courses are the prerequisites for the M.S.U.S. program.

### Core Courses

#### Urban Core:

Each student must take two urban studies seminars at the 6000 level or above offered by the Anthropology, Planning and Urban Studies, or Geography departments. Courses from other departments can be substituted with permission from the course instructor and the M.S.U.S. coordinator. The M.S.U.S. coordinator will notify students each semester which course or courses will fulfill this requirement.

Each student must take one urban history course at the 5000 level or above offered by the History Department.

#### Methods:

	URBN 6005	Statistics for Urban Analysis
OR	GEOG 6801	Advanced Quantitative Methods
AND	ANTH 5070	Qualitative Research

### Substantive Areas

Students must choose five to seven courses from one of the following substantive areas. Students in the geography track must take an additional 1 credit hour course. Required courses for each substantive area are available from the MSUS coordinator.

- Applied Urban Anthropology
- Urban Planning
- Geography
- Cultural Resource Management
- Historic Preservation

With the graduate coordinator's written consent, a student may submit another substantive area which is subject to approval by the Urban Studies faculty.

### Master of Science in Urban Studies: Applied Urban Anthropology Concentration

The Master of Science in Urban Studies applied urban anthropology degree will provide students with training in qualitative research methods and valuable fieldwork experiences. These may include cultural preservation management projects, historic archaeology, policy evaluation, folklore research projects and internships in local government and non-profit organizations. Graduates with the Master of Science in Urban Studies - urban anthropology degree will be well prepared to work professionally as well as continue in doctoral study.

### Master of Science in Urban Studies: Geography Concentration

The Master of Science in Urban Studies geography degree will provide students with an advanced understanding of the geographer's craft, including an ability to pose and analyze geographical problems

using geographical tools and techniques, and to defend conclusions based on geographical research. Graduates with the M.S.U.S. geography degree will be well prepared to enter the workforce at advanced levels as professional geographers, as well as for continuation in doctoral study.

Students should check with the department about any revisions approved for the program, but which may not be reflected in this catalog, or visit the department website at [www.uno.edu/cola/planning-and-urban-studies](http://www.uno.edu/cola/planning-and-urban-studies)

## Master of Urban and Regional Planning

The Master in Urban and Regional Planning program prepares graduates for a wide range of careers in the field of planning. Planners can choose to work for governmental agencies, private consulting firms or nonprofit organizations. Their chosen career can target such issues as creating safe, attractive and healthy neighborhoods; providing affordable housing; and building accessible, efficient and environmentally friendly transportation systems. Students have the opportunity to pursue internships for academic credit with selected agencies and private firms while they are in school. This "real world" experience helps students to become more competitive in the job market upon graduation.

All M.U.R.P. students will be required to show proof of having completed at least an acceptable introductory-level statistics course and an introductory-level economics course before entering the program, or will be required to complete such a course during their first semester of attendance.

### Student Learning Outcomes

#### College of Liberal Arts Master of Urban and Regional Planning

1. Students will acquire knowledge about the history, theory, legal framework and professional practice of urban and regional planning
2. Students will acquire practical planning experience
3. Students will acquire in depth knowledge in at least one area of concentration
4. Students will gain analytical skills applicable to planning practice
5. Students will gain professional skills applicable to planning practice

### Overview

- 45 total hours needed to complete the degree (excluding deficiencies or prerequisites)
- 18 credit hours of required courses
- 9 credit hours of courses in an area of specialization
- Either MURP 6720 Practicum in Urban and Regional Planning or MURP 7000 Thesis Research (3 credit hours)
- 15 credit hours of approved electives

Students should check with the department about any revisions approved for the program which may not be reflected in this catalog.

## Master of Urban and Regional Planning: Areas of Specialization

### Program Specializations

Students have a choice of five areas of specialization within the program. Each specialization requires 9 credit hours of coursework. The five areas of specialization are Environmental/Hazards Planning, Historic Preservation, Housing and Community Economic Development, Land Use/Urban Design and Transportation Planning. Students may complete coursework in 2 areas of specialization.

### Joint JD/ MURP Program

This program, unique in Louisiana, offers a combined planning degree and legal education through Loyola School of Law for those persons seeking a career in land use law and development. Applicants must apply

separately and be admitted to the MURP program at UNO and to the Loyola School of Law. Normal degree requirements of each program are reduced by a common core of nine credit hours of approved elective courses that count toward both programs. The requirements for both degrees must be completed before either degree is awarded.

### Financial Aid

Assistantships for nine months are available for a limited number of qualified applicants. The student will devote approximately half-time (20 hours per week) to research work. In addition, a number of assistantships are located off-campus in planning and planning related agencies.

## Doctor of Philosophy in Urban Studies

### Student Learning Outcomes

#### College of Liberal Arts

#### Doctor of Philosophy in Urban Studies

1. Graduates will have sufficient knowledge of urban studies for academic careers with the ability to contribute to research and teaching
2. Students will have sufficient empirical knowledge and methods for careers in applied research and policy analysis
3. Students will develop sufficient research skills and knowledge in a subfield to make an original contribution to the body of knowledge
4. Students will understand both qualitative and quantitative research methods and analytical techniques

### Admission

The Doctor of Philosophy in Urban Studies program provides graduates with a solid foundation to conduct applied research and policy analysis outside of academic settings and for teaching and research in colleges and universities. The program emphasizes mastery of the literature and theory in a particular area of scholarship and mastery of research skills necessary to make significant original contributions to that field. The Doctor of Philosophy in Urban Studies program assists the department in its professional public service mission by providing high quality applied research and policy analysis for state, metropolitan, and local agencies and organizations. The doctoral program in urban studies draws upon the strengths of the University, particularly the departments within the College of Liberal Arts.

All students enrolling in the program must have a bachelor's degree from an accredited college or university. Preference is given to those who have completed a master's degree before entering the program. Admission decisions are based primarily on undergraduate/graduate grade-point average (GPA), Graduate Record Examination (GRE) scores, and letters of recommendation. Preferred levels of performance are a 3.0 or higher undergraduate GPA, a 3.0 or higher graduate GPA, scores of at least 150 for the verbal and quantitative section of the GRE and a minimum of 5.0 on the written portion of the GRE.

### Degree Requirements

A student admitted to the program must complete a minimum of 72 hours beyond the bachelor's degree. A post-master's student will be able to transfer to the Program a maximum of 24 credit hours of course work with a grade of B or higher. Thus, a student must complete at least 48 hours of course work with a grade of B or higher while enrolled in the doctoral program at UNO. Also, up to 9 credit hours earned after receiving a master's degree may be transferred into the program. The courses proposed for transfer must be approved as part of the student's program of study within the college. These hours will include a core curriculum, a major and a minor field of specialization, and a dissertation.

### Fields of specialization include

1. Urban Affairs,
2. Urban History, and
3. Urban and Regional Planning.

## Overview

72 credit hours beyond the baccalaureate degrees:

- Core Curriculum (18 credit hours)
- Research Methods (6 or more credit hours)
- Research Competence (6 credit hours)

## Major and Minor Fields of Study/Area of Specialization (42 credit hours)

Within the major field, students select a group of courses that provide a foundation in the theory and methods of that field of knowledge and a set of additional courses that constitute an area of specialization. Typically, foundation courses are completed as part of previous master's degree work and are transferred into the doctoral program. A student who does not have a master's degree in his or her major field should expect to take courses sufficient to demonstrate knowledge of the basic theory, concepts, and methods of that field.

Each student selects a group of courses that form an area of specialization within the major field of study. The Urban Studies Doctor of Philosophy faculty supports research in urban planning and development, social policy, social and cultural change as well as heritage studies including cultural resource management, public history, historic preservation and public culture.

The student defines his or her area of specialization in consultation with a faculty advisor. The courses must be mutually reinforcing and coherent; assure expertise in some body of knowledge, methods, or problem area; and provide the student with adequate skills and knowledge to do dissertation research as well as policy research in the area of specialization: knowledge of the body of relevant theory (usually by taking courses in anthropology, sociology, history, urban planning or public administration); knowledge of relevant methodology (e.g., planning methods, statistics, qualitative methods); an ability to apply theory and methods to specific problems; and an ability appropriate research design and research methods.

Students may, at their own option, define a minor field of study. Within the minor field, a student must complete at least 15 credit hours (some of which may be transfer credits) in a set of courses approved in advance by the student's advisor. Courses taken in the minor may constitute an independent body of knowledge, or they may support the area of specialization developed in the major.

Students should check with the department about any revisions approved for the program, but which may not be reflected in this catalog, or visit the department website at [planning.uno.edu](http://planning.uno.edu).



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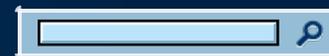
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# Graduate Programs in Business Administration

## Accounting

### [Student Learning Outcomes](#)

### [College of Business Administration](#) [Master of Science in Accounting](#)

1. Students will receive a high quality accounting education that will allow them to pursue, or advance in, accounting, business, or related careers
2. Master of Science Accounting students will demonstrate business planning acumen.
3. Students will demonstrate proficiency in conducting accounting research and in writing.

### [Department of Accounting Mission](#)

The mission of the Department of Accounting is to provide programs, at both the undergraduate and graduate levels, that prepare our students for careers as professional accountants in public practice, industry, and other areas, and for advancement into graduate programs. We will do this by maintaining high academic standards, superior teaching, quality research, significant service, and the effective use of technology. We recognize the importance of continuous improvement, high ethical standards, and diversity in the educational environment.

### [Academic Programs](#)

The Department of Accounting offers two graduate programs: the Master of Science in Accounting and the Master of Science in Tax Accounting. Both the undergraduate and graduate accounting programs are distinguished with separate AACSB International accreditation.

#### **Master of Science degree in Accounting**

This program is designed to prepare students for careers in various areas of professional accounting. It also helps persons already employed in accounting positions to advance in their careers. The program also serves as a foundation for more advanced studies, such as the Ph.D. degree. For students desiring a greater specialization in accounting information systems auditing, or finance, concentrations in these areas are offered within the Master of Science in Accounting program.

#### **Master of Science degree in Tax Accounting**

This program is a specialized Master of Science degree program that is designed to provide a high degree of concentration in the tax area. The taxation degree provides in-depth technical and comprehensive study for persons planning careers in taxation accounting or who are already employed in this area and wish to expand their knowledge of the field. The taxation program also serves as a foundation for more advanced studies, such as the Ph.D. degree.

Both programs may be pursued either full-time or part-time and may be completed by attending evening classes.

### Admission Requirements

Applicants to the Master of Science programs should have a baccalaureate degree from an accredited university and an academic record which clearly indicates a high level of achievement. In addition, the applicant should submit satisfactory scores on the Graduate Management Admission Test (GMAT) and an undergraduate GPA of at least 2.8. The admissions committee may consider other factors such as work experience in making a determination for admission. Applicants whose native language is not English must provide proof of English proficiency (see Graduate School). Applicants must be advanced in English comprehension and be able to participate in class discussion. Special classes in English class work may also be required.

### Preparatory Courses

The graduate programs build on the students' technical competence in undergraduate accounting and business courses. To provide a background for successful study at the graduate level, a series of preparatory courses or their equivalents must be completed before enrolling in courses for graduate credit. Students with a non-business undergraduate degree should expect to take the bulk of the preparatory courses before admission to the graduate program.

The specific undergraduate foundation courses are from the areas of accounting, economics, finance, management, marketing, and statistics\*. These courses do not have to be completed at UNO but a C or better grade is required in each\*. The Master of Science degree in accounting requires 43-48 credit hours of these specific preparatory courses while the Master of Science in Tax Accounting degree requires 36-42 credit hours.

\*See department for specific courses. The Business courses may be taken at the 4400 level to reduce the total number of hours.

### Degree Requirements

The Master of Science programs in accounting require 30 hours of course work. A minimum of 21 hours of these classes must be at the 6000 level. Depending on a particular curriculum, this will permit a student to use up to nine hours of 5000 classes toward his/her degree. Each student must also have at least 15 hours of 6000 level accounting classes. Included in that total there must be at least 12 hours of 6000 level accounting classes other than ACCT 6126, ACCT 6167, and ACCT 6168.

Only classes numbered 5000 and 6000 can be used toward the total credits for the Master of Science programs.

### Master of Science in Accounting Degree Requirements

Required accounting courses	Cr. Hrs.
ACCT 6125 Studies in Accounting Theory	3
ACCT 6133 Studies in Managerial Accounting	3
ACCT 6185 Strategic Business Planning	3
Approved accounting electives*	12

Approved electives	Cr. Hrs.
Accounting or other business administration courses	6
Free Elective	3
<b>TOTAL CREDITS REQUIRED</b>	<b>30</b>

\*See the department for specific courses and see "degree requirements" above.

## Master of Science in Accounting - Accounting Information Systems Concentration

Required courses	Cr. Hrs.
ACCT 5142 IT Auditing	3
ACCT 6125 Studies in Accounting Theory	3
ACCT 6133 Studies in Managerial Accounting	3
ACCT 6143 Advanced Accounting Information Systems	3
ACCT 6185 Strategic Business Planning	3
MANG 6710 Management of Technology and Innovation	
OR	
MANG 6730 Business Information Systems Analysis and Design	3
Approved accounting electives*	6
Approved Accounting or other Business Administration Courses	6
<b>TOTAL CREDITS REQUIRED</b>	<b>30</b>

\* See department for specific courses and see "degree requirements" above.

## Master of Science in Accounting - Auditing Concentration

Required courses	Cr. Hrs.
ACCT 5162 Advanced Auditing	3
ACCT 6167 Internal Auditing Concepts	3
ACCT 6125 Studies in Accounting Theory	3
ACCT 6133 Studies in Managerial Accounting	3
ACCT 6169 Fraud Examination	3
ACCT 6185 Strategic Business Planning	3
ACCT 6163 Seminar in Auditing	
OR	
ACCT 6168 Internal and Operational Auditing	3
Approved accounting elective	3
Approved electives*	
-- Non-Accounting course	3
-- Accounting or other business administration course	3
<b>TOTAL CREDITS REQUIRED</b>	<b>30</b>

\*See the department for specific courses and see "degree requirements" above.

## Master of Science in Accounting - Finance Concentration

Required courses	Cr. Hrs.
ACCT 6125 Studies in Accounting Theory	3

ACCT 6133 Studies in Managerial Accounting	3
ACCT 6185 Strategic Business Planning	3
FIN 6300 Financial Administration	3
FIN 6302 Investments	3
Approved accounting electives*	9
Approved business electives (including accounting)*	3
Approved finance course**	3
<b>TOTAL CREDITS REQUIRED</b>	<b>30</b>

\*See the department for specific courses.

\*\*To be selected from any 5000 or 6000 level Finance course except:

- An internet course
- A thesis course, or
- A directed study course

## Tax Accounting

### Student Learning Outcomes

#### College of Business Administration Master of Science in Tax Accounting

1. Students will receive a high quality accounting education that will allow them to pursue, or advance in, accounting, business, or related careers.
2. Master of Science Accounting students will demonstrate business/tax planning acumen.
3. Students will demonstrate proficiency in conducting tax research and in writing.

### Master of Science in Tax Accounting Degree Requirements

Required accounting courses	Cr. Hrs.
ACCT 6125 Studies in Accounting Theory	3
ACCT 6133 Studies in Managerial Accounting	3

Required taxation courses	Cr. Hrs.
ACCT 5154 Estate and Gift Taxation	3
ACCT 6151 Federal Tax Practice, Procedure, and Report Writing	3
ACCT 6153 Taxation of Corporations and Shareholders	3
ACCT 6156 Advanced Taxation of Partners and Partnerships and Professional Corporations	3
ACCT 6185 Strategic Business Planning	3
Approved tax elective*	3
Approved Accounting or Business Administration courses	6
<b>TOTAL CREDITS REQUIRED</b>	<b>30</b>

\*See the department for specific courses and see "degree requirements" above.

### Financial Aid

A limited number of research assistantships are awarded on a competitive basis to full-time graduate students with outstanding academic credentials. Appointments are for a nine-month period and may be renewed for a second year. Graduate assistants normally work 20 hours per week assisting the faculty with their research projects and performing other departmental duties. Irrespective of their legal residency, graduate assistants are eligible for in-state fees. A limited number of loans, scholarships, and departmental awards are also available to assist students in financing their education.

## Arts Administration

The Master of Arts in Arts Administration is interdisciplinary in nature, involving the Department of Film and Theatre Arts, Department of Fine Arts, Department of Music, and the College of Business Administration. It is built on graduate courses offered by those departments and on specialized courses in Arts Administration. The Arts Administration faculty consists of core faculty from the areas involved and other faculty whose interests are relevant to the program.

The Master of Arts in Arts Administration is designed to prepare students to serve as administrators and managers in all types of arts institutions, among them galleries, theatres, performing arts centers, and community arts centers. Included in the curriculum are courses in business and the arts, as well as an internship designed to give students practical experience in the field. A description of the program admission requirements and curriculum is provided in the Graduate Programs in Liberal Arts section.

## Master of Business Administration

### Student Learning Outcomes

#### College of Business Administration Master of Business Administration

1. Students will be able to make the appropriate decisions involving Operations Management.
2. Students will be able to make the appropriate decisions involving Human Resources Management.
3. Students will be able to make the appropriate decisions in Financial Management.
4. Students will be able to make the appropriate decisions in Strategic Planning & Analysis.
5. Students will be able to make the appropriate decisions in Financial Analysis
6. Students will be able to make the appropriate decisions in Marketing Management.

The Master of Business Administration degree is a professional degree. The program is designed to prepare students for superior administrative positions in both the private and public sectors. The program is accredited by the Association to Advance Collegiate Schools of Business International (AACSB).

Students are provided a broad preparation in business administration while being allowed a certain amount of concentration in specific business areas. Attention is given to lasting principles instead of specific techniques which may be subject to frequent change. Emphasis is placed on the development of problem-solving and decision-making abilities.

The curriculum integrates communication skills with social and ethical perspectives for business decision making and adds a diverse, global perspective through the extensive use of case analysis. The functional business discipline skills are integrated in a "capstone" course through the use of the Business Simulation Game and case studies.

The program is designed to satisfy the needs of students with or without undergraduate degrees in business administration. The foundation core courses are intended to provide the background needed by students with degrees in areas other than business. These foundation courses include: Accounting 4400, Business Administration 4400, Economics 4400, Finance 4400, Management 4400, Management 4401 or 2790,

Marketing 4400, and Quantitative Methods 4400, or their equivalents.

Students who have been awarded a bachelor's degree in business administration from an AACSB-accredited program within eight years of beginning their M.B.A. studies at the University of New Orleans will have satisfied these foundation core requirements. Students who have graduated with a bachelor's degree in business more than eight years prior to beginning the MBA program at the University of New Orleans may be able to waive some or all of the foundation courses based upon validation of currency of knowledge in those specific areas. Additionally, students with a bachelor's degree in a field other than business and who have had coursework required in the foundation courses more than eight years before beginning the M.B.A. program at the University of New Orleans may also be able to waive some or all of the foundation courses based upon validation of currency of knowledge in those specific areas.

#### Admission Requirements

Admission to the traditional Master of Business Administration program is at the discretion of the College of Business Administration's Committee on Graduate Admissions and the Executive Director of the Graduate School. Applicants are normally admitted if they have a baccalaureate degree from an accredited college or university, with a minimum grade-point average of 2.75 (on a 4.0 grading system) or above and a minimum GMAT score of 450 (minimum GRE score of 148 in Verbal Reasoning and 145 in Quantitative Reasoning is also acceptable) and a total of at least 1050 points based on the following formula:

(Overall undergraduate GPA X 200) + the GMAT score (or converted GRE score) = 1050

Or

(Upper division undergraduate GPA x 200) + the GMAT score (or converted GRE score) = 1100

The upper division grade –point average refers to a student's last 60 semester hours. In addition, applicants must have maintained at least a 3.0 grade-point average (4.0 system) for all graduate work previously taken. Applicants whose native language is not English must provide proof of English proficiency (see Graduate School).

#### Master of Business Administration Degree Requirements

Courses	Cr. Hrs.
ACCT 6130 <sup>1</sup> Advanced Accounting Analysis for Decision Making	3
ECON 6200 Managerial Economics	3
FIN 6300 Financial Administration	3
QMBE 6780 Operations Research	
OR	
BA 6780 Survey of Decision Making Tools	3
MANG 6401 Seminar in Organizational Behavior	3
MANG 6476 Operations Management	3
MKT 6503 Strategic Marketing Management	3
MANG 6480 Seminar in Business Policies	3
Approved Electives or Concentration Electives <sup>2</sup>	9
<b>TOTAL CREDITS REQUIRED</b>	<b>33<sup>3,4</sup></b>

1. Candidates with an undergraduate degree in accounting or who have completed a substantial number of accounting courses will be required to substitute a three-hour accounting course at the 6000 level.
2. Must be approved by the coordinator of the Master of Business Administration program.
3. A grade of C or higher is necessary for any course to be accepted for credit. However, a C grade is considered to be below the standard normally expected of a graduate student. A grade of C or better is

required for all foundation courses.

4. As a minimum, a student must present at least 33 semester hours of work in courses numbered 6000 or above (exception: one approved, 5000 graduate-level course may be substituted. However, credit towards the MBA degree may not be earned for any 5000 graduate-level course that the student has previously taken at the undergraduate level.). A student must have a cumulative grade point average of at least 3.0 on all course work taken to fulfill Graduate Curriculum requirements.

### Master of Business Administration Concentrations

Concentrations allow students to focus their studies on a particular area of business administration. The M.B.A. Program offers concentrations in the following areas: Finance, Health Care Management, Human Resource Management, Hotel, Restaurant and Tourism Administration, International Business, Management Information Systems, Marketing, and Technology Management. Each concentration consists of nine hours in selected courses (with the exception of Technology Management which requires 18 credit hours in specific courses), thus fulfilling the elective requirements in the core curriculum. Specific courses must be approved by the program director. An executive track concentration is available as described below.

### Financial Aid

A limited number of assistantships are available to qualified applicants. These assistantships involve half-time work assignments (20 hours per week) in the various academic departments, centers and functional areas of the College of Business Administration. Requests for application forms or for additional information should be directed to [http://www.unomba.com/mba/mba\\_assistantships.html](http://www.unomba.com/mba/mba_assistantships.html).

### Master of Business Administration - Executive Track

For experienced managers, professionals, and entrepreneurs who are working full time, the Executive track of the MBA is a lock-step program designed to allow rapid completion of the MBA degree with minimal disruption of work responsibilities. Classes are held primarily on Saturdays and Sundays of alternating weeks. Additional fees apply. Classes may be taken only by students admitted to the Executive track of the MBA program. Admission to the executive track of the MBA program is separate from admission to the MBA program. Preparatory course material is integrated into the program through the use of special topic sessions.

Admission to the Executive track of the MBA Program is at the discretion of the College of Business Administration's Committee on Executive track MBA graduate admissions. Applicants are evaluated based on: (1) the length and quality of their professional work experience; and (2) the attainment of, and grade point average in, a baccalaureate degree from an accredited college or university. Applicants to the program may be required to take the Graduate Management Applications Test (GMAT). English language requirements described above must also be fulfilled.

## Economics and Finance

### Master of Science in Financial Economics

#### Student Learning Outcomes

#### College of Business Administration

#### Master of Science in Financial Economics

1. All students should demonstrate the ability to do original research in Financial Economics.
2. All students should demonstrate core knowledge of Financial Economics.
3. All students should demonstrate advanced knowledge of Financial Economics.

All students must complete requirements for the Master of Science degree while pursuing the requirements for the Doctor of Philosophy program in Financial Economics. A minimum of 30 credit hours is required for the Master of Science degree.

1. Course Requirements: The MS curriculum is the first 30 hours of the PhD Curriculum and must include ECON 6203 and 6204; FIN 6311 and 6312; QMBE 6280, 6281 and 6282 plus three other approved courses.
2. Comprehensive Examination: Every student must pass Comprehensive Examinations in Economics and Finance after completing the required first year core courses. This is a non-thesis degree.

## Doctor of Philosophy in Financial Economics

The Department of Economics and Finance offers a Doctor of Philosophy degree in Financial Economics with specializations in International Financial Economics, Investments, Corporate Finance, Monetary Theory and Financial Institutions, and an interdisciplinary field. The curriculum is structured to promote competence both in theory and applications, in finance and economics.

### Student Learning Outcomes

#### College of Business Administration

#### Doctor of Philosophy in Financial Economics

1. All students should demonstrate the ability to do original research in Financial Economics.
2. All students should demonstrate core knowledge of Financial Economics.
3. All students should demonstrate advanced knowledge of Financial Economics.

### Admission Requirements

All students enrolling in the program must have a bachelor's degree from an accredited college or university and, at a minimum, their undergraduate training should include principles of economics, intermediate microeconomic and macroeconomic theory, financial management, one year of statistics, and one semester of calculus. Admission decisions will be based primarily on undergraduate grade point average (GPA), Graduate Record Examination (GRE) or Graduate Management Admissions Test (GMAT) scores, and letters of recommendation. Preferred levels of performance will be a 3.0 GPA and 350 (combined scores for verbal and quantitative sections) GRE or 550 GMAT score. These levels will be viewed as general guidelines since particular strength in one set of credentials may be viewed as sufficient to offset a modest deficiency elsewhere. Applicants whose native language is not English must provide proof of English proficiency (see Graduate School).

### Degree Requirements

The doctoral program in financial economics is divided into three stages: core preparation, advanced specialization, and dissertation. All graduate students must have approval of the graduate coordinator for the courses that they take.

Students may be allowed to start taking graduate courses before completing certain foundation courses. The intermediate economics courses may be taken concurrently with the graduate theory courses. Principles of Financial Management (Finance 3300), calculus, and statistics are prerequisites to all graduate courses in the program.

Prospective candidates for the Ph.D. degree in financial economics should be advised that mathematical modeling is used heavily in the field. Indeed, it is virtually impossible to read any current major journal (much less contribute one's own research to them) without considerable training in modeling methods. Those entering doctoral study without command of calculus will be judged deficient. More than one semester in calculus is recommended.

The successful completion of the Ph.D. program is carried out in three stages: core courses that culminate in a qualifying exam, two specialized fields with a corresponding general exam, and a dissertation and its' oral defense. The Ph.D. candidate must demonstrate proficiency in mathematics or computer programming in a manner approved by the Graduate Coordinator. All students must complete a minimum of 60 credit hours in the program to graduate.

## Master of Science in Health Care Management

The Master of Science in Health Care Management program is designed to prepare health care professionals to survive and prosper in the twenty-first century. The curriculum provides students with a unique blend of knowledge that bridges the world of health care and the world of finance, marketing, accounting, and management. The objective of this advanced education is to enable graduates to manage and supervise administrative areas in both public and private health care settings more efficiently. This degree will be administered and awarded by the UNO College of Business Administration. This interdisciplinary program involves faculty from the College of Business Administration and adjunct lecturers from relevant health care agencies and

organizations. The program consists of 33 credit hours (11 courses). There is no thesis.

### Student Learning Outcomes

#### College of Business Administration Master of Science in Health Care Management

1. Students will demonstrate the ability to communicate business concepts in a written report.
2. Students will demonstrate knowledge of basic business concepts as identified in the learning objectives of each of the core classes in the program.
3. Students will demonstrate the ability to communicate business concepts orally.

### Admissions Requirements

Baccalaureate degree from an accredited college or university; GPA of at least 2.75 on a 4.0 grading system from undergraduate work; satisfactory academic standing at the last university or college attended and satisfactory admission tests scores from either the GRE (minimum 150 in Verbal Reasoning and 145 in Quantitative Reasoning) or GMAT (minimum 450 combined Verbal and Quantitative score).

### Master of Science in Health Care Management Degree Requirements

Courses	Cr. Hrs.
ACCT 6131 <sup>1</sup> Accounting in Health Care Settings	3
ECON 5250 Health Care Economics	3
BA 6010 Health Care Management	
OR	
HPSM 6268 Health Services Administration and Management	3
EPID 6210 Principles of Epidemiology	
OR	
EDHS 5111 Epidemiological Principals in Health Promotion	3
MKT 5536 Health Care Marketing	3
BA 6012 Culture and Behavior in Health Care Settings	3
FIN 6350 Health Care Financial Management	3
BA 6097 or HPSM 6258 Health Law and Ethics	3
And two approved electives	6
BA 6013 Strategic Management of Health Care Organizations (Capstone)	3
<b>TOTAL CREDITS REQUIRED</b>	<b>33</b>

1. BA 6014 (prerequisite) Business for Health Care Note: this course is required for non-business students and if taken may be used as an approved elective.

### Master of Science in Health Care Management — Executive Track

For experienced managers, professionals, and entrepreneurs who are working full time, the Executive track of the MS in Health Care Management (MSHCM) degree is a lock-step program designed to allow rapid completion of the MSHCM degree with minimal disruption of work responsibilities. In this 15-month program, classes are held primarily on Saturdays and Sundays of alternating weeks. Additional fees apply. Classes may be taken only by students admitted to the Executive track of the MS in HCM program. Admission to the Executive track of the MSHCM program is separate from admission to the HCM program.

Admission to the Executive track of the Master of Science in Health Care Management Program is at the

discretion of the College of Business Administration's Committee on Executive MS-HCM graduate admissions. Applicants to the program may be required to take the Graduate Management Applications Test (GMAT) or the Graduate Record Examination (GRE). UNO Graduate School English language requirements must also be fulfilled.

Applicants are evaluated based on:

1. the length and quality of their business experience;
2. attainment of, and grade point in, a baccalaureate degree from an accredited college or university.

## Lester E. Kabacoff School of Hotel, Restaurant and Tourism Administration

### Master of Science in Hospitality and Tourism Management

The Master of Science in Hospitality and Tourism Management program is an advanced degree program to better prepare future leaders in the hospitality and tourism industry. It is designed to enhance students' knowledge of the industries that operate under the rubric of global tourism; widen their horizons in regard to unresolved issues in the field; and further develop their analytical abilities and communication skills.

The program prepares students for professional careers in both the private and public sectors of global hospitality and tourism and it also serves as a foundation for more advanced studies.

Students are provided a broad preparation in the important operational aspects of the organizations that comprise the hospitality and tourism industries. Emphasis is placed on the development of problem solving and decision-making abilities as well as the acquisition of basic research skills.

The program is designed to satisfy the needs of students with undergraduate degrees in any field who want to be better prepared for careers in hospitality and tourism.

#### Student Learning Outcomes

##### College of Business Administration

##### Master of Science in Hospitality and Tourism

1. Students will develop an advanced understanding of how to communicate electronically with industry professionals.
2. Students will demonstrate competency in marketing skills that are pertinent to the hospitality and tourism industry.
3. Students will develop an advanced understanding of research methods and their application in the hospitality and tourism industry
4. Students will develop problem solving, decision-making and leadership abilities.

#### Admission Requirements

- a baccalaureate degree or equivalent from an accredited university, and
- a minimum undergraduate grade-point average of 2.5, and
- a score of 400 or above on the Graduate Management Admissions Test (GMAT)
- a score of 286 or above on the GRE (Sum of Verbal and Quantitative)

In addition, applicants must have maintained at least a 3.0 GPA (4.0 system) for all graduate work previously taken. Applicants whose native language is not English must provide proof of English proficiency (see Graduate School).

#### Degree Requirements

Course	Cr. Hrs.
HRT 6001 Survey of the Hospitality and Tourism Industry*	3
HRT 6102 Technology of Hospitality and Tourism Management	3
HRT 6200 Hospitality and Tourism Operations Analysis	3

HRT 6202 Hospitality and Tourism Research Methods	3
HRT 6203 Marketing Applications for the Hospitality and Tourism Industry	3
HRT 6204 Hospitality and Tourism Internship	3
HRT 6205 Change Management for Hospitality and Tourism	3
HRT 6207 Work Experience in Hospitality and Tourism	0
HRT 6300 Hospitality and Tourism Finance and Revenue Management	3
HRT 6301 Hospitality and Tourism Industry Strategic Management**	3
Required credits for all students	27
Electives - Non-Thesis (one of the following)	
HRT 6491 Independent Study in Hospitality and Tourism Management	3
HRT 6250 Tourism Destination Development	3
HRT 6495 Special Topics in Hospitality and Tourism	3
Total credits required - Non Thesis Option	30
Additional Degree Requirements - Thesis Option	
HRT 7000 Thesis Research (6 credits)***	6
Master of Science Thesis Option must take two additional Research Methods/Statistics courses (for a total of 6 additional credits). Students must have approval from the HRT Graduate coordinator prior to registering for the appropriate courses.	6
Courses may be selected from:	
EDFR 6705 Research Design	3
EDFR 6710 Descriptive Statistics	3
EDFR 6720 Applied Regression	3
PSYC 6311 Advanced Statistics I	3
PSYC 6312 Advanced Statistics II	3
TOTAL CREDITS REQUIRED Thesis option	39

\*Students who have an undergraduate degree in Hotel, Restaurant and Tourism Administration will be allowed the option of substituting a three-hour MBA elective or Hotel, Restaurant and Tourism 6250 or 6495 in the place of Hotel, Restaurant and Tourism 6001.

\*\*HRT 6301 must be taken near the end of the course of study.

\*\*\* HRT 7000 must be taken over the last two semesters of study (3 credits per semester) and with approval of the department.

Notes:

1. Students without Hospitality and Tourism or Business related undergraduate or graduate degrees or without business experience may be required to take 9 credit hours of Master of Science foundation courses. These are FIN 4400 Principles of Financial Management; MKT 4400 Principles of Marketing; and ACCT 4400 Survey of Financial Accounting.
2. Students choosing the non-thesis option will need a minimum of 30 credit hours to complete the course requirements for the program.
3. Students choosing the thesis option are required to take Hotel, Restaurant and Tourism Administration 7000 (six credit hours) and two additional research courses for a total of 39 credit hours.

The Master of Science program consists of a minimum of ten courses and a total of 30 credit hours. The thesis option will require an additional nine credit hours.

## Master of Science in Engineering Management

The College of Business Administration cooperates with the College of Engineering in offering an Master of Science in Engineering Management. This program makes use of the expertise and resources of the faculty of both colleges. A full description of this graduate program may be found in the Graduate Programs in Engineering section of this catalog.



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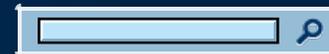
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# Graduate Programs in Sciences

## Doctor of Philosophy in Engineering and Applied Science

The Doctor of Philosophy in Engineering and Applied Science is an interdisciplinary, integrative degree involving faculty from the College of Engineering and the College of Sciences. The program is particularly suited to the emerging trends in the scientific and engineering communities.

### [Student Learning Outcomes](#)

#### [College of Sciences](#)

#### [Doctor of Philosophy in Engineering and Applied Science](#)

1. Ability to apply basic engineering concepts as demonstrated by the results of the Qualifying Procedures
2. Ability to apply advanced concepts, both Colleges to develop Doctor of Philosophy Research
3. The candidate will have the approval of the Doctor of Philosophy Dissertation Committee for the scope of the Doctor of Philosophy Dissertation
4. Ability to perform advanced engineering and/or science research
5. Ability to publish research
6. Final approval of the Ph.D.

### [Admission Requirements](#)

Admission to the doctoral program is based on reasonable evidence that the applicant will prove capable of scholarly research on a broad intellectual foundation. All students enrolling in the program must have a Master's degree from an accredited college or university in engineering, physics, mathematics, earth and environmental sciences, computer science, or a closely related field, or be willing to complete coursework required in an existing Master's program in one of the participating departments at UNO while pursuing the Doctor of Philosophy Admission decisions will be based primarily on grade-point average, Graduate Record Examination scores, and letters of recommendation. Foreign applicants (non-English speaking countries) must also provide proof of English proficiency (see Graduate School).

### [Doctor of Philosophy in Engineering and Applied Science Degree Requirements](#)

Students enrolled in the program must satisfy all general requirements of the UNO Graduate School. Following are the formal procedural requirements for students to receive the Doctor of Philosophy degree in Engineering and Applied Science. Doctor of Philosophy candidates must complete a minimum of 51 semester credit hours of graduate course work in an approved program beyond the Bachelor's degree, not including dissertation research. The credit hours may include up to 30 semester hour credits obtained in a Master's degree program, if the area of the Master's degree is relevant to the doctoral program. Up to six of these 30 credits may be for thesis research. In addition, a doctoral dissertation based on the results of original research under the guidance of a faculty committee and defended in a public examination is required for the doctoral program. At least 30 semester hours of dissertation research credit must be earned.

Units participating in the program are Civil and Environmental Engineering, Electrical Engineering, Engineering Management, Naval Architecture and Marine Engineering, Computer Science, Earth and Environmental Sciences, Mathematics, and Physics. The student's dissertation advisory committee will consist of at least five members. No more than three can be from any one department. There must be at least one committee member from each of the colleges of Engineering and Sciences. Program qualification, in the form of a Qualifying Examination, is administered by the department of the principal advisor(s). It is based on material in a typical departmentalized master's degree program, or equivalent. Courses are chosen with the consent of the dissertation advisory committee. The committee shall consider the interdisciplinary nature of the program when it approves the courses. A minimum of nine credits (three courses) must be taken in each college. A General (comprehensive) Examination will be administered by the dissertation advisory committee. The examination will be based on material in the student's program of study. After passing the General Examination, the Doctor of Philosophy student is expected to write a dissertation prospectus and defend it before the dissertation advisory committee. After a successful defense and committee approval of the prospectus, the student may pursue research leading to the dissertation. The dissertation should reflect the interdisciplinary nature of the program. There must be a final public defense of the dissertation administered by the dissertation advisory committee.

### Financial Aid

Teaching and research assistantships are available to qualified graduate students on a competitive basis.

## Biological Sciences

### Programs of Study

The Department of Biological Sciences offers a Doctoral Degree in Integrative Biology and a Master of Science in Biological Sciences. The Integrative Biology doctoral program is designed to prepare students for careers in biology through a rigorous program of coursework and research. Integrative biology combines approaches from diverse areas, from molecular biology to ecology), to illuminate how organisms function and operate in their environment. The Master of Science in Biological Sciences prepares students for employment in a variety of careers (biomedical technician, natural resource manager, biology education) or for further study towards graduate or professional degrees. The program features coursework and research opportunities in areas ranging from cellular and molecular biology to ecology and environmental biology.

### Admission

Applicants are evaluated by the Department of Biological Sciences graduate committee. The committee will consider the student's previous academic record, Graduate Record Examination scores, and letters of recommendation. Acceptance usually requires a commitment from a faculty member to serve as temporary advisor for the first academic year. Entering students may be required to take undergraduate courses to correct deficiencies in basic areas of biology.

### Financial Aid

Financial support in the form of stipend and waiver of tuition may be provided to Doctor of Philosophy and Master of Science students. There are commonly three forms of financial support: teaching assistantships, research assistantships, and fellowships.

## Doctor of Philosophy in Integrative Biology

### Student Learning Outcomes

#### College of Science

#### Doctor of Philosophy in Integrative Biology

1. Learn concepts and experimental approaches in a variety of areas of biology.
2. Be able to present effective oral and visual summaries of independent research.
3. Orally present a proposal for dissertation research to a general scientific audience.
4. Present and defend a written proposal for dissertation research to a specialized audience.
5. Learn, apply, and integrate concepts and experimental approaches from specific areas of biology appropriate to the student's interests.

## Degree Requirements

Doctoral students are required to complete a minimum of 60 credit hours beyond the baccalaureate degree. The course requirement is meant to provide students with basic understanding and skills in Integrative Biology, while allowing individuals to tailor the specific coursework to meet their needs. Courses are selected in consultation with the student's advisor and must satisfy the following requirements:

1. Three credit hours of Topics in Integrative Biology (BIOS 6093).
2. Nine credit hours of other graduate-level coursework. <sup>1</sup>
3. Two credit hours of Scientific Communication (BIOS 6022).
4. Four credit hours of Graduate Seminar (BIOS 6091). <sup>2</sup>
5. Twelve credit hours of Dissertation Research (BIOS 7050). <sup>3</sup>
6. The remaining 30 credit hours may include additional seminar (BIOS 6091) or research (BIOS 7000, 7050). <sup>4</sup>

<sup>1</sup>A minimum of 3 credit hours must be at the 6000-level. May not include BIOS 6091, 7000, 7050 or more than 3 credit hours of BIOS 6090.

<sup>2</sup>Students are expected to enroll in BIOS 6091 every regular semester in residence.

<sup>3</sup>Students are expected to enroll in BIOS 7050 every regular semester in residence after advancing to candidacy.

<sup>4</sup>Other specific courses may be required to address deficiencies in student preparation.

Students must maintain a cumulative GPA of 3.0 (on a 4.0 scale) in all required coursework. Any course in which a student earns a C will be reviewed by the graduate committee to determine whether it will count toward the degree requirement. In no case will more than 6 credit hours of C be applied to the degree requirements. At least half of the total credits earned by doctoral students must be at the 6000 or 7000-level.

## Advisory Committee

All students admitted to the doctoral program will be assigned an interim advisor. During the first year in the program, the student will select a research advisor (who may be the same as the interim advisor) and assemble an advisory committee. The advisory committee consists of five associate or full members of the graduate faculty, three of whom must be faculty of the Department of Biological Sciences. Other committee members may be from other departments at UNO or other institutions. The advisory committee provides guidance on coursework and research.

A Plan of Study that includes coursework completed, in progress, and planned, must be approved by the graduate coordinator and submitted to the graduate school by the end of the first year in the program. Continuation in the program is contingent upon evidence of progress in the degree program provided in the form of annual reports submitted to the graduate committee.

## General Exam

Students must take a general exam before the end of their second year in the program. The major requirement of the general exam is the preparation of a well-constructed and complete research proposal describing the dissertation project in sufficient detail to judge feasibility, novelty, and relevance of the project. The proposal is presented at a public seminar and defended in a closed meeting with the advisory committee. Students need to demonstrate a high degree of proficiency in their research area, appropriate general knowledge, and readiness to perform dissertation research. Upon passing the general exam, and with the approval of the Department Chair and Dean of the College, the student is admitted to doctoral candidacy.

## Dissertation

The most important requirement of the doctoral degree is a dissertation summarizing original, independent research, which is both significant and novel. Hence, the final years of study are dedicated to conducting research and preparing the dissertation. Advisory committee meetings are convened annually to monitor progress and address problems if they arise. The research is evaluated regularly and adjusted in scope or

direction as needed to ensure progress toward the degree. The doctoral program culminates with the preparation, public presentation, and defense of the dissertation in front of the advisory committee. After the defense, the dissertation is revised according to committee recommendations and approved by the Graduate School.

### Teaching Requirement

Students are required to have teaching experience prior to the completion of their graduate career at UNO. The experience may be attained prior to enrollment in the program (e.g., by serving as a teaching assistant during undergraduate or Master of Science programs) or during the student's tenure in the doctoral program.

## Master of Science in Biological Science

### Student Learning Outcomes

#### College of Science

#### Master of Science in Biological Sciences

1. Be able to present effective oral and visual summaries of independent research.
2. Orally present a thesis to a general scientific audience.
3. Present and defend a written thesis to a specialized audience.
4. Learn and apply concepts and experimental approaches in a specific area of biology appropriate to the student's interests.

Master of Science students are required to complete a minimum of 30 credit hours beyond the baccalaureate degree. The course requirement provides students with basic understanding and skills in the Biological Sciences, while allowing individuals to tailor the specific coursework to meet their needs. Courses are selected in consultation with the student's advisor and must satisfy the following requirements:

1. 6 credit hours of Thesis Research (BIOS 7000). <sup>1</sup>
2. 6 credit hours of 6000-level coursework. <sup>2,3</sup>
3. 4 credit hours of Graduate Seminar (BIOS 6091). <sup>4</sup>
4. The remaining 14 credit hours must be 5000 or 6000-level. <sup>2</sup>
5. A minimum of 12 of the 24 non-thesis credit hours must be in the Department of Biological Sciences.

<sup>1</sup>Students generally enroll in BIOS 7000 every regular semester in residence, but only 6 credit hours may count toward the 30 credit hour degree requirement.

<sup>2</sup>A maximum of 3 credit hours of BIOS 6090 may count toward the degree.

<sup>3</sup>May not include BIOS 6091.

<sup>4</sup>Students are expected to enroll in BIOS 6091 every regular semester in residence.

Students must maintain a cumulative GPA of 3.0 (on a 4.0 scale) in all required coursework. Any course in which a student earns a C will be reviewed by the graduate committee to determine whether it will count toward the degree requirements. In no case, will more than 6 credit hours of C be applied to the degree requirements.

Up to 10 hours of graduate-level credit taken previous to admission into the Master of Science program may be applied towards the 30 hours required for the Master of Science degree, subject to approval by the student's advisory committee, the graduate coordinator, and the Graduate School.

### Advisory Committee

Each Master of Science student has an advisory committee that directs the course work and research. In the first semester in the Master of Science program, the student selects a faculty member from the Department of Biological Sciences to serve as chair of the advisory committee. By the end of the second semester, the advisory committee is expanded to a minimum of three members. Members of the advisory committee must

be members of the graduate faculty and at least half must be from the Department of Biological Sciences.

Students will submit annual reports documenting progress in the program, which will be evaluated by the graduate committee. A *Candidate Plan of Study* that includes coursework completed, in progress, and remaining, must be approved by the graduate coordinator and submitted to the graduate school no later than the semester prior to the completion of the degree.

### Thesis

The Master of Science degree requires a thesis embodying original research in a specialized area. The thesis must be presented in a seminar open to the public, defended in an oral final examination, and approved by the student's advisory committee. After the defense, the thesis is revised according to committee recommendations and approved by the College of Sciences and the Graduate School.

## Chemistry

### Programs in Chemistry

The Department of Chemistry offers both Masters' and Doctoral programs. Both the Master of Science and the Doctor of Philosophy are research degrees and require an original investigation by the student. Students may choose to pursue the Doctor of Philosophy degree directly from the baccalaureate degree, or after earning an Master of Science degree.

### Admission

Applicants to the Masters or Doctor of Philosophy programs are evaluated by the Department of chemistry Graduate Recruitment Committee. The committee will consider the student's previous academic record, previous research experience, Graduate Record Examination (GRE) scores, and letters of recommendation. Foreign applicants must also have proof of English (see Graduate School). Written and oral competence in English are required.

### Financial Aid

Teaching assistantships are available to qualified graduate students. Research assistantships supported by grant funds of individual faculty members are also available. Summer support is available in each type of assistantship. The amount paid is proportionately scaled to the academic year stipend.

## Master of Science in Chemistry

### Student Learning Outcomes

#### College of Science

#### Master of Science in Chemistry (Thesis Option)

1. Graduate students will acquire an advanced understanding of concepts in areas related to their thesis research and area of specialty
2. Graduate students will acquire an advanced understanding of concepts in physical chemistry and a minimum of 2 sub-disciplines outside of physical chemistry (Analytical, Biochemistry, Inorganic, Organic, Materials, Medicinal) through completion of graduate level coursework.
3. Graduate students will develop skills to be competent instructors of undergraduate students.
4. Graduate students will be able to explain in technical written and oral formats an advanced understanding of a current topic in the chemical literature.
5. The department will maintain high graduate student satisfaction with the program.

#### College of Science

#### Master of Science in Chemistry (Non-Thesis Option)

1. Graduate students will acquire an advanced understanding of concepts in physical chemistry.
2. Graduate students will acquire an advanced understanding of concepts in a minimum of 2 sub-disciplines outside of physical chemistry (Analytical, Biochemistry, Inorganic, Organic, Materials, Medicinal) through completion of graduate level coursework.

3. Graduate students will be able to explain in technical written and oral formats an advanced understanding of a current topic in the chemical literature.
4. The department will maintain high graduate student satisfaction with the program.

### Degree Requirements

Upon entrance of the graduate program, each student will be given placement examinations covering undergraduate preparation in the major areas of chemistry. Results of these tests will provide a basis for selection of the courses to be pursued during the student's first year.

The minimum requirement for the degree of Master of Science is 30 credit hours of graduate course work. At least nine hours must be concentrated in one of the divisions of chemistry. In addition, a minimum of six hours must be taken across two other chemical divisions. With the approval of the student's thesis committee and the department chair, the additional three hours may be taken in graduate level non-chemistry courses. Also required for the Master' degree are nine hours of research/thesis (at the 7000 level), and three hours of credit in CHEM 6095 (Seminar) for a total of 30 semester hours. For graduate course work, the candidate must maintain an overall B (3.0) average, a B (3.0) average in the major area, and a 2.75 average outside of the major area. Each student is required to prepare and present one literature seminar, the subject of which is to be taken from the current research literature and is not to be directly related to the student's present or previous research. A formal abstract, prepared and distributed prior to the date of the seminar presentation, is required. Each student must present the seminar no later than the fourth semester in the program (excluding summer semesters).

Courses at the 5000-level can only be used for graduate credit with the approval of the student's thesis committee and the department chair.

For those who are working toward the Doctor of Philosophy but wish to earn a Master of Science degree, passing grades in three cumulative exams (see next section) are required in addition to the aforementioned 30 hours of credit. In place of the thesis, the department will substitute an article accepted for publication, describing a substantial piece of research done while enrolled in the Graduate School.

### Non-Thesis Master of Science Degree Program

The Non Thesis Master of Science Degree Program provides B.A. and B.S. degree students with an option of obtaining a M.S. degree based upon completion of program of academic coursework in advanced chemistry.

### Admission Requirements

After acceptance by the Graduate School, the Chemistry Department on the basis of undergraduate academic record, three letters of recommendation, and statement of purpose will determine admission to the Non-Thesis M.S. Program in Chemistry.

Students not meeting these requirements may be admitted to the program on a conditional basis, and must fulfill conditions imposed by the department in addition to the regular requirements for the degree. Students with Bachelor's Degrees in fields other than Chemistry may be admitted on a conditional basis. Please direct graduate admission enquiries to: gradchem@uno.edu

### Program Limitations and Constraints

Students admitted to the Non Thesis M.S. Degree Program are not eligible for financial support from the Department of Chemistry in the form of a graduate assistantship or fellowship.

Students admitted to the Non Thesis M.S. Degree Program may not directly transfer into the Ph.D. program but may apply to the Ph.D. program at any time. Admission into the Ph.D. program will be based on the merit of the applicant as compared to the applicant pool for that semester.

### Advisor/Committee

An advisor will be assigned to the student based on his or her area of interest. The Advisor will be a member of the Chemistry Department Graduate Affairs Committee and will monitor academic progress. The advisor will guide the student through the academic aspects of the program, serve as liaison to the Department and

the Graduate School, and serve as the Chair of the Comprehensive Examination Committee. The Advisor will select two additional faculty members to serve on the examination committee.

### Course Requirements

The minimum course work requirement is 33 hours. Graduate credit is awarded for courses numbered 5000 and above. Graduate credit is not awarded for courses numbered 4000 and below. As a minimum, a student must present at least 15 semester hours of work in courses numbered 6000 or above.

Students must complete a minimum of 21 hours in Chemistry. This includes 3 credit hours of CHEM 6095 Seminar. The student must be registered for CHEM 6095 the semester they plan to graduate.

Elective courses must be numbered 5000 or above and may come from areas outside of chemistry. All elective courses to be used for the MS degree in Chemistry must be approved by the Department of Chemistry.

### Curriculum Summary

Courses	Credit Hours
CHEM Courses 5000-7000 level	18
CHEM 6095 (required may be taken for credit a max of 3 times)	3*1
Elective Courses (5000 or above)	12

### Application for Candidacy

Students should apply for candidacy after 15 hours have been completed. Candidacy applications must be submitted the semester prior to semester in which the student will be graduating.

### Non-Thesis Project

Each student is required to prepare and present a literature seminar, the subject matter of which is to be taken from the current chemical/biochemical research literature. The student's Advisor and Committee must approve the topic. A formal abstract, prepared and distributed prior to the date of the seminar presentation, is required. Students must present their seminar the semester they intend to graduate. The presentation of the seminar will serve as the comprehensive exam and will be judged by the students' Advisor/Committee as pass or fail.

### Application for Degree

Students must complete the online form that officially adds them to the graduation list. This must be completed on the Registrar's office website no later than the first week of classes in the semester that the student plans to graduate. (see Graduate School)

### Master's Examination Report

A Master's Examination Report must be presented to the Graduate School as evidence of completion of the master's degree milestone (comprehensive exam/non-thesis project). The report is due the last week of the month preceding Commencement.

## Doctor of Philosophy in Chemistry

### Student Learning Outcomes

#### College of Science

#### Doctor of Philosophy in Chemistry

1. Graduate students will acquire an advanced understanding of concepts in areas related to their dissertation research and area of specialty.
2. Graduate students will acquire an advanced understanding of concepts in physical chemistry and a minimum of 2 sub-disciplines outside of physical chemistry (Analytical, Biochemistry, Inorganic, Organic, Materials, Medicinal) through completion of graduate level coursework.
3. Graduate students will develop skills to be competent instructors of undergraduate students.

4. Graduate students will be able to explain in technical written and oral formats an advanced understanding of a current topic in the chemical literature.
5. Students will express a high level of satisfaction with the program

### Degree Requirements

The requirements for the Doctor of Philosophy degree are as follows:

1. Placement examinations will be given to each student accepted for graduate work in chemistry in each of the major fields of chemistry. The student's graduate committee will consider the results of these examinations as well as the student's record in previous course work in determining the student's qualifications and placement in courses during the first year of study.
2. The minimum requirement for the Doctor of Philosophy degree is 60 graduate credit hours. At least nine hours must be concentrated in one of the divisions of chemistry. In addition, a minimum of six hours must be taken across two other chemical divisions. With the approval of the student's thesis committee and the department chair, the additional three may be taken in graduate level non-chemistry courses. Required reading courses (CHEM 6090, 6091, 6092, and 6093, one hour each) are not counted as part of the 18 hours. Six credits in CHEM 6095 (seminar) and at least 32 research credits in research/dissertation (CHEM 7050) go toward completion of the 60-semester hour minimum. Courses at the 5000-level can only be used for graduate credit with the approval of the student's thesis committee and the department chair. For graduate course work, the candidate must maintain an overall B (3.0) average, a B (3.0) average in the major area, and a 2.75 average outside of the major area.
3. To become an applicant for the doctorate, a student must pass the qualifying exam. This exam is administered through a cumulative exam system in which the student must pass three separate examinations from a total of nine attempts. All cumulative examinations must be passed within a two-year period following entrance into the program. Exams are offered six times during each academic year.
4. Each student is required to prepare and present one literature seminar, the subject of which is to be taken from the current research literature and is not to be directly related to the student's present or previous research. A formal abstract, prepared and distributed prior to the date of the seminar presentation, is required. Each student must present the seminar no later than the fourth semester in the program (excluding summer semesters).
5. Before attaining full candidacy for the Doctor of Philosophy degree, a student must exhibit excellence, depth of understanding, and high professional attainment in the field by successful completion of the general examination for the doctorate. This examination takes place in the fifth semester of study, and consists of a written report and oral presentation to the thesis committee that summarizes the student's research accomplishments and future studies.

## Computer Science

The Department of Computer Science offers a program of study leading to the degree of Master of Science. The program is designed to be flexible enough to accommodate the needs of two kinds of students: those who have recently completed an undergraduate degree in computer science and want to further their education, and those practicing professionals who want to acquire specific academic experience relevant to their work.

The department also participates in the Doctor of Philosophy in Engineering and Applied Science program. Interested students should refer to the beginning of this Graduate Programs in Sciences section for a description of the program, admission criteria, and curricular requirements.

### Admission

After acceptance by the Graduate School, admission to the graduate program in computer science will be determined by the department on the basis of undergraduate academic record, three letters of recommendation, statement of purpose, and Graduate Record Examination scores. Admission to the program generally requires a composite score of least 1000 on the verbal and quantitative sections of the Graduate Record Examination; a mathematical background equivalent to MATH 2111, MATH 2112 (Calculus with Analytic Geometry) and MATH 3721 (Introduction to Discrete Structures); and a computer science background including the equivalent of CSCI 1583, CSCI 2120 (Software Design and Development), CSCI 2125 (Data Structures), CSCI 2450 (Machine Structure and Assembly Language Programming), CSCI 3301 (Computer Organization), and two upper-division courses. Students not meeting these requirements may be admitted to the program on a conditional basis, and must fulfill conditions imposed by the department in addition to the regular requirements for the degree. Students with bachelor's degrees in fields other than computer science may be admitted on a conditional basis.

## Master of Science in Computer Science

### Student Learning Outcomes

#### College of Science

#### Master of Science in Computer Science

1. Acquire knowledge of an advanced area of computing and be able to communicate the acquired knowledge in written form.
2. Acquire knowledge of an advanced area of computing and be able to communicate the acquired knowledge in oral form.
3. Acquire adequate preparation for doctoral study in computer science

### Degree Requirements

The department offers both thesis and non-thesis options in the master's program. All candidates for the master's degree must satisfy the following background, breadth, and depth requirements.

No course may be counted toward the satisfaction of more than one of these requirements.

1. Background requirement: the equivalent of Computer Sciences 5401 and 5501. Students who have not completed this requirement prior to enrollment are required to do so, for credit, as part of their curricula.
2. Breadth requirement: students must take one 6000-level course that counts toward the degree requirements (three semester hours) in each of three different concentration areas as listed below.
3. Depth requirement: students must take three additional courses that count toward the degree requirements (nine semester hours), of which at least two must be at the 6000-level. All courses must belong to the same concentration area (see list below). This concentration area must be different from the ones chosen to fulfill the breadth requirement.

The concentration areas, with specific sub-disciplines falling under each area, are given in the following table. A detailed list of courses included in each area can be obtained from the department.

### Theoretical Computer Science and Programming Languages

- Computability
- Analysis of Algorithms and Complexity
- Formal Languages and Automata
- Combinatorics and Graph Theory
- Formal Semantics and Type Theory
- Logic
- Programming Languages
- Compiler Construction

### Systems and Network

- Operating Systems
- Hardware Architecture
- Parallel and Distributed Systems
- Networks
- Protocols

### Software Systems

- Algorithm Design

- Data Structures
- Programming Methodologies
- Software Engineering
- Distributed Software Engineering
- Software Architectures
- Software Components

#### Information Assurance

- Defense of information and information systems by ensuring their availability, integrity, authentication, confidentiality, and non-repudiation.
- Cryptology
- Computer Security
- Information Protection
- Secure Information Exchange

#### Database Systems and Distributed Applications

- Data Modeling
- Database Systems and Distributed Database Systems
- Data Query Languages
- Programming and Architectures for the Web
- Spatial Database Systems
- Data Mining
- Mobile Computing

#### Computer Graphics and Visual Computing

- Computer Graphics
- Image Processing
- Data Visualization
- Visual Programming Languages
- Computational Geometry

#### Artificial Intelligence

- Robotics
- Computer Vision
- Pattern Recognition
- Evolutionary Computing
- Expert Systems
- Machine Learning
- Data Mining

All graduate students completing the master's degree must maintain a minimum of B grade in all 5000-level courses, and a minimum 3.0 average in all courses taken to satisfy the degree requirements excluding thesis research.

Students completing the master's degree with a thesis are required to submit an acceptable thesis and give a satisfactory defense of the thesis. Thirty semester hours are required, no more than six of which may be thesis credit. No more than nine hours may be at the 5000 level. Up to six hours may be taken in graduate courses outside of Computer Science upon prior approval by the department. Students choosing Information Assurance as their concentration must select the thesis option.

Students completing the master's degree without a thesis are required to give a satisfactory performance in a comprehensive examination covering course work. 36 semester hours are required, no more than 12 of which may be at the 5000 level. Up to nine hours may be taken in approved graduate courses outside of Computer Science upon prior approval by the department.

All graduate assistants are required to participate in the weekly departmental seminar.

## Earth and Environmental Sciences

The Department of Earth and Environmental Sciences (EES) offers a multi-disciplinary program of study a wide variety of research options that lead to the degree of Master of Science. The faculty teach about topics relevant to Louisiana's earth resources and environment, but also participate in internationally recognized research. The multi-disciplinary approach of EES better prepares graduates for a professional setting where different scientists from diverse disciplines work together to achieve common objectives.

Admission criteria and curricular requirements are described below.

The Department also participates in the Doctor of Philosophy in Engineering and Applied Science program. As an interdisciplinary graduate degree program, the student will need to review the requirements for the Engineering and Applied Sciences Doctor of Philosophy which is administered jointly by the College of Sciences and the College of Engineering at UNO. The degree is administered through this program while dissertation research is conducted in EES.

### Admission

Admission requirements for entering either the EES Master of Science or an EES-based Doctor of Philosophy in Engineering and Applied Science programs are:

1. an undergraduate GPA > 3.0;
2. completion of the Graduate Record Examination, with a minimum total score of 1000 (Verbal + Quantitative) being highly preferred;
3. submission of a letter of intent to EES;
4. submission of three letters of recommendation; and
5. identifying an EES Faculty member who will agree to be your advisor/mentor prior to being accepted into the Department. Minimum scores for international students are 550 (paper); or 80( iBT) on the Test of English as a Foreign Language (TOEFL) or 6.5 overall band score on the International English Language Testing System (IELTS).

### Financial Aid

Both teaching and research assistantships are available through EES. Teaching assistantships are somewhat competitive with preference given to those qualified applicants with experience in teaching basic geology and/or environmental science laboratory courses. Graduate students (M.Sc. and Doctor of Philosophy) may also be supported by research assistantships provided by their advisor. Potential students are encouraged to discuss the possibilities with your advisor prior to applying. Finally, there are numerous scholarships available to EES graduate students through the Department and the University. See the respective websites for further detail.

## Master of Science in Earth and Environmental Sciences

### Student Learning Outcomes

#### College of Science

#### Master of Science in Earth and Environmental Sciences

1. EES Graduate students will acquire an advanced understanding of concepts in areas related to their thesis research and area of specialty
2. EES Graduate students will be able to construct and effectively competently present Earth and Environmental Sciences information and concepts visually and verbally through oral PowerPoint presentations.
3. EES Graduate students will be able to explain in technical written format an advanced understanding of concepts in areas related to their thesis research and area of specialty.
4. The department of EES will maintain high graduate student satisfaction with the program.

### Degree Requirements

The minimum requirement for the degree of Master of Science (M.Sc.) in EES is 24 credit hours of course work and six hours of thesis research credit for a total of 30 credit hours. Nine of the 24 hours of coursework must be earned in courses numbered above 6000. Each graduate student is expected to participate in the weekly seminar, EES 6090. All Master of Science graduate students will be required to:

1. secure a thesis advisor from available EES graduate faculty prior to acceptance into the program;
2. form a thesis committee within his or her first semester consisting of at least three committee members with graduate faculty status;
3. submit a prospectus or research work plan to the thesis committee within her or his first year; and
4. submit and publicly defend a thesis upon completion of course work and research.

## Mathematics

The Department of Mathematics offers a program of study leading to the degree of Master of Science. The program is designed to provide a sound preparation for continued study toward a Doctor of Philosophy degree as well as prepare students for careers in business, government, industry, and teaching. The program provides courses for those interested in the modern applications of mathematics, the pure aspects of mathematics, or statistics, or actuarial mathematics.

The department also participates in the Doctor of Philosophy in Engineering and Applied Science (ENAS) Doctor of Philosophy program. Interested students should refer to the description of the ENAS program, admission criteria, and curricular requirements at the beginning of the Graduate Programs in Sciences section.

### Admission

Admission to graduate study in mathematics will be determined by the Graduate School and the Department of Mathematics. Students who wish to enter the graduate program should prepare themselves by successfully completing an undergraduate program that includes the equivalent of at least MATH 2134 (calculus III), and MATH 3511 (Introduction to Linear Algebra). In addition, it is strongly recommended that students have taken the equivalent of the MATH 3512 (Introduction to Abstract Algebra), MATH 4511 (Linear Algebra) and MATH 4101 (Advanced Calculus). See Requirements below for more information. Applicants to the program are required to take the Graduate Record Examination (GRE) General Test. Admission to the program requires a total score of 300 or more and 150 or more on the Quantitative Reasoning and 140 or more on the Verbal Reasoning of the GRE.

### Financial Aid

Graduate Assistantships are available to a limited number of qualified applicants. Students who would like to apply for a Graduate Assistantship should contact the Graduate Coordinator in the Mathematics Department.

## Master of Science in Mathematics

### Student Learning Outcomes

## College of Science

### Master of Science in Mathematics

1. Graduate students will acquire an advanced understanding of concepts in areas related to their thesis research and/or area of specialty.
2. Graduate students will be able to construct and effectively present information and concepts visually and verbally through oral presentations.
3. Graduate students will be able to explain mathematical concepts in technical writing format to demonstrate their advanced understanding of concepts in areas related to their thesis research and/or area of specialty.
4. The department will maintain high graduate student satisfaction with the program.

### Degree Requirements

The general regulations of the Graduate School, set forth elsewhere in this catalog, apply to the graduate program in mathematics. Any student who has been admitted to graduate study in mathematics but who has not completed the equivalent of MATH 3512, 4101 and 4511 must take MATH 3512, 5101, and 5511 as early as possible. (Note: MATH 3512 and 5101 are required for graduation, but do not contribute towards graduate credit for the MS degree in mathematics. MATH 5511 counts towards graduate credit.)

The student must complete one of the following four sets of courses:

1. MATH 5411, 5611, 6450, 5512;
2. MATH 6201 or 6202, 6230, 6242, 6221 or 6224;
3. MATH 6311, 6312, 6301, 6382 or 6385 or 6351;
4. MATH 5801, 5802, 5803, 5804.

These four sets of courses represent the following three areas of mathematics:

1. Pure Mathematics
2. Applied mathematics,
3. Statistics,
4. Actuarial Science.

Within the program as part of the total number of semester hours required, the student must complete at least 18 hours of 6000-level courses in the Mathematics Department. Up to nine non-math hours can be used toward the degree and these courses must be math-oriented or direct applications of math and must be approved by the Graduate Advisory Committee of the mathematics department.

The student must obtain at least a 3.0 average in all graduate level courses, excluding Thesis Research, whether or not the course is offered for degree requirements. The student is given the choice of whether or not to write a Master's Degree Thesis. The total number of semester hours required is 36 for non-thesis option and 30 for the thesis option. Students who choose to write a thesis must give a satisfactory performance on an oral presentation of the thesis. Students who choose the non-thesis option must give a satisfactory performance on a comprehensive examination that covers courses given for graduate credit.

## Programs in Physics

The Physics Department offers the MS degree in Applied Physics. The program is flexible enough to accommodate students planning on continuing graduate studies in applied physics, physics, or an interdisciplinary field, as well as students intending to enter the work force.

The department currently has strong research programs in theoretical and computational aspects of acoustics, geophysics, electromagnetics, continuum mechanics, and astrophysics. Excellent experimental research activities are being conducted in condensed matter and materials physics, magnetism, spintronics, surface physics, and observational astronomy.

The department also participates in the Doctor of Philosophy in Engineering and Applied Science program. Interested students should refer to the beginning of this Graduate Programs in Sciences section for a description of the program, admission criteria, and curricular requirements.

## Admission

The student should have successfully completed a baccalaureate degree program at a university or college approved by a recognized accrediting agency. The student's record should indicate a high level of performance and promise, particularly in the field of physics.

After the student has submitted the online application for admission the University, admission to graduate study in physics will be determined by the Department of Physics on the basis of the student's previous academic record, scores on the general portion of the Graduate Record Examination, and (for financial assistance) letters of recommendation. Requirements for admission without deficiencies are general chemistry, mathematics through differential equations, and satisfactory coursework in the major areas of classical physics.

## Financial Aid

Teaching assistantships are available to a limited number of qualified applicants. Research assistantships and fellowships supported by grant funds of individual faculty members are also available.

## Master of Science in Applied Physics

### Student Learning Outcomes

#### College of Science

#### Master of Science in Applied Physics

1. Students will have mastery of basic physics appropriate for advanced doctoral study in physics/applied physics or for employment in technical positions in government or industry.
2. Students will be able to communicate scientific knowledge in oral and written form.
3. Student will be able to effectively conduct experimental and/or computational research including data acquisition, computer simulations and analysis.

## Degree Requirements

The Department of Physics offers a Master of Science in Applied Physics degree. It is a degree program which has significant flexibility. It is open to students with undergraduate degrees in fields related to physics as well as those with physics degrees. It offers sufficient versatility in its requirements to allow students to prepare for a variety of career paths. Prospective students are urged to contact the Department to learn more.

Entering students can choose to follow a targeted applied physics emphasis or a traditional applied physics emphasis for their degree. Students who choose a targeted emphasis are those preparing for a career which targets specific areas of applied physics such as materials science, optics, acoustics, or geophysics, and those planning to work in interdisciplinary areas such as computational physics (scientific computing), biophysics, chemical physics, physical oceanography, or engineering physics. This emphasis selection provides excellent preparation for interdisciplinary doctoral studies. Entering students choosing this emphasis are not necessarily expected to have completed all the courses that an undergraduate physics major takes, but they should have a good grounding in classical physics or be willing to make up deficiencies. Additional classical physics courses are expected to form part of the degree program. The student may choose to do 24 hours of coursework and a thesis, or 33 hours of coursework and no thesis. The graduate work must include at least 18 hours of physics (including thesis if a thesis is done) and 9 hours in a specialty area (which may be applied physics). At least 18 hours of work must be at a level of 6000 or above. The program of study must be approved by the student's Master's committee or the Department Graduate Advisory Committee.

The traditional emphasis is for those preparing for a career in which basic physics plays a central role, including those aspiring to employment heavily dependent on physics and those planning to continue into a Doctor of Philosophy program in applied physics or in physics. Except in limited unusual circumstances, the student is expected to do a thesis and 24 hours of course work. Of the 24 credit hours of coursework students selecting this emphasis are expected to take a minimum of 18 hours in physics of which at least 12

are taken in courses numbered above 6000. The program of study must be approved by the student's Master's committee or the Department Graduate Advisory Committee.

Each graduate student is expected to participate in the weekly seminar, Physics 6198. (A maximum of one hour credit in Physics 6198 may be used to satisfy program requirements.) After coursework is substantially complete, the candidate will be required to take a comprehensive examination. In the case of students who elect to do a thesis, the comprehensive examination will be an oral one in which the questions will be primarily on the thesis and related matters. Both emphasis choices offer excellent preparation for the interdisciplinary UNO Doctor of Philosophy program in Engineering and Applied Science, of which Physics is a strong participating department.

## Programs in Psychology

### Admission

An applicant is accepted for graduate work in psychology upon recommendation by the department and subsequent admission to the Graduate School. The department's recommendation for admission is based on the student's performance on the Graduate Record Examination, letters of recommendation, and on the student's academic performance. The department may recommend full or conditional admission. If admitted on a conditional basis, the applicant must fulfill the conditions imposed by the department.

### Programs Offered

The department offers a Master of Science degree in Psychology and a Doctor of Philosophy degree in Psychology with specializations in Applied Biopsychology and Applied Developmental Psychology. The curriculum integrates coursework in basic psychology with research and practicum experience in applied psychology.

Students are expected to:

1. develop competence in one of the two major content areas of behavioral science represented in the department (e.g. biological and developmental psychology),
2. conduct research based theoretically in the student's major content area but focused on the application of behavioral science, and
3. develop a core of skills in the delivery of psychological and consultative services and gain experience in the roles of the behavioral scientist in medical, biomedical and/or applied-developmental settings.

### Financial Aid

A limited number of teaching assistantships are available to qualified students. Research and service assistantships supported by faculty grants or contracts are also available.

## Master of Science in Psychology

### Student Learning Outcomes

#### College of Science

#### Master of Science in Psychology

1. Graduate students who complete the Master of Science degree will continue into the UNO doctoral program.
2. Graduate students who complete the Master of Science degree will develop the skills and knowledge to be able to complete a research project of publishable quality.
3. Graduate students who complete the Master of Science degree will develop the ability to communicate psychological knowledge

### Degree Requirements

All students must complete requirements for the Master of Science degree while working on the Doctor of Philosophy requirements. A minimum of 40 credit hours is necessary for the Master of Science degree, although some students may be required to take additional hours to remedy undergraduate training deficiencies or in order to meet particular career goals.

1. General Core: Core courses are required for all graduate students. They include Psychology 6311, 6312, 6050, 6091 (four credit hours), 6350, and 6550.
2. Specialty Core: In addition, each specialty recognized by the department has designated additional courses as core to their programs. All applied developmental students must take Psychology 6101, 6102, and 6610. All applied biopsychology students must take Psychology 6801, 6802, and 6810.
3. Research Courses: All students must register for research, Psychology 6090, each semester (excluding summer) they are not registered for thesis credit. A minimum of six hours of credit for Psychology 6090 is required.
4. Minimum Grades: A student who receives a C or lower in a core course (general or specialty) or who drops a core course while earning lower than a B will be dropped from the program. If a student receives a C or less in a non-core course, that course must be repeated in order to earn graduate credit. All students must maintain a B average for all courses in order to remain in the psychology graduate program.
5. Thesis: Every student is required to complete a thesis based on her or his own original research that clearly demonstrates ability to identify significant problems, design and conduct scientific studies, and report findings in an appropriate fashion. The thesis research must be of publishable quality. A minimum of six credit hours of thesis research, Psychology 7000, is required, although the student must be registered for thesis research each semester he or she is working on it until it is accepted by the thesis committee. An oral defense of the thesis is required.
6. Comprehensive Examination: Every student must pass a Comprehensive Examination after completing the first year core courses.

## Doctor of Philosophy in Psychology

### Student Learning Outcomes

#### College of Science

#### Doctor of Philosophy in Psychology

1. Graduate students will develop the skills and knowledge to be able to complete a research project of publishable quality
2. Graduate students will develop the ability to communicate psychological knowledge
3. Graduate training will enable all graduating doctoral students to obtain employment that meets their career objectives.

### Degree Requirements

After completion of the master's requirements, students must pass a Qualifying Examination in order to continue to work toward a doctoral degree. During the entire period of work toward the doctorate, a student's program of study is guided by a doctoral advisory committee. The full advisory committee consists of the major professor who acts as chairperson, one or more representatives of at least one minor field outside, and at least three other graduate faculty members of the department. At least two members (including the chairperson) must be full-time members of the department, and at least one member must be a full member of the UNO graduate faculty. The committee is nominated by the chair of the department and is appointed by the Dean of the College.

The student's doctoral program of study must meet the following standards, which includes a minimum of 51 credit hours beyond those required by the Master of Science degree.

1. Doctoral Core Courses: Applied Biopsychology students must take at least two (six hours) of the following courses: Psychology 6820, 6830, 6840, and 6895. Applied developmental students must take Psychology 6195, 6620, and 6801. The advanced seminar, Psychology 6195, must focus on advanced methods in developmental research.
2. Electives: Developmental students are required to take six hours of elective coursework and Biopsychology students are required to take nine hours of elective coursework. The electives must be chosen from content courses; research and practicum beyond the minimum cannot be used as electives.
3. Research: In addition to the dissertation requirements outlined below, all students are required to take six hours of independent research, Psychology 6090. Also, students must register for at least three hours of research credit every semester they are not registered for dissertation hours (excluding summers).
4. Teaching: Three hours of Teaching of Psychology, Psychology 7010, are required of all students.
5. Practicum: Twelve hours of practicum are required for all students (Psychology 6191 or 6891). The purpose of the practicum is to give students first-hand experience in an applied setting. The emphasis is on the application of experimentally-derived principles within the context of a service-delivery system. The practicum experience is arranged to provide an opportunity for students to begin to develop and practice a

variety of skills in their areas of specialization.

6. **Minor:** The department requires that all doctoral students designate a specific minor area of study and to designate a faculty member to serve as the student's minor advisor. The minor advisor must serve on the student's Doctoral Advisory Committee. The intent of the minor requirement is to have the student outline a clearly delineated area of training that enhances the student's ability to find employment after receipt of the doctoral degree. Therefore, the choice of minor area is dependent on the student's specific career objectives. The minor will require 9 hours of graduate course credit. Three hours of the required nine for the minor may also be used as a general elective. Three hours of practicum can be used toward the minor requirement, if this is approved by the student's minor advisor and Doctoral Advisory Committee.
7. **Social Basis of Behavior:** All students must satisfy a requirement of three credit hours or the equivalent in the area of social bases of behavior. This requirement may be satisfied by (1) coursework, such as Psychology 6400 Social Psychology, Psychology 6170 Socioemotional Development, or a directed readings course in social bases of behavior taken under Psychology 6090; or (2) demonstrating competence in social bases of behavior as part of the Doctor of Philosophy qualifying examination. If coursework is selected to satisfy the requirement, the credit hours earned may be considered part of the required six elective hours (unless the course is used to satisfy other requirements).
8. **General Examination:** All students must pass a General Examination which is administered when the student's coursework is substantially completed. The General Examination consists of the student writing and orally defending a literature review of the research area relevant to the proposed dissertation topic. The literature review and defense must demonstrate competence in the student's minor and applied areas. The exam will be conducted by the student's Doctoral Advisory Committee.
9. **Dissertation and Final Defense:** All students must complete a dissertation and register for a minimum of six hours of Psychology 7050. The student must be registered for dissertation research each semester he or she is working on it until the final examination is passed. The dissertation must demonstrate a mastery of research techniques, ability to do original and independent research, and skill in formulating conclusions that in some way enlarge upon or modify the existing knowledge base in psychology. The final examination is the oral defense of the dissertation. The final examination committee is appointed by the dean of the Graduate School. In most cases it will consist of the student's doctoral advisory committee, although the dean may add additional members.
10. **Internship:** A student may elect to take an internship and the student must be registered for Psychology 7191 or 7891 throughout the internship (minimum of six hours). It must involve the equivalent of 12 months of supervised full-time experience. It must be supervised by a licensed psychologist. To qualify as an internship, a minimum of 1,500 hours at the site must be completed within 24 months and it must be approved by the department. The internship is an intensive, advanced, supervised experience required to be a practicing psychologist. To be eligible for an internship, the student must have completed all coursework and passed the General Examination. Only the dissertation may remain.
11. **Minimum Grades:** A student who earns a C or lower in a core (either general or specialty) or who drops a core course while earning lower than a B will be dropped from the program. If a student receives a C or less in a non-core course, that course must be repeated in order to earn graduate credit. All students must maintain at least a B average in all courses in order to remain in the psychology graduate program.
12. **Additional Reasons for Dismissal:** A student is expected to make normal progress toward the degree to remain in the program and must be registered as a full-time student each semester in the program. A student may be dropped from the program if, in a semi-annual evaluation, the faculty determines that the student does not meet the standards of a Doctor of Philosophy candidate.



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# Graduate Programs in Education and Human Development

## Department of Curriculum and Instruction

Two master's degree options and a doctorate degree are offered in Curriculum and Instruction. The Master of Arts in Teaching (M.A.T.) degree is designed to offer candidates with a bachelor's degree outside the field of education an opportunity to address the requirements of an initial level teaching certificate within a master's degree program. The Master of Education (M.Ed.) degree is designed to offer candidates who already hold teacher certification an opportunity to address one or more advanced preparation objectives including the requirements of an add-on certification option, advanced preparation in their existing certification area, coursework addressing an advanced skill set, or additional training in one or more content areas. The Doctor of Philosophy (Ph.D.) degree provides advanced preparation for professionals. The doctoral program is designed to develop an understanding of research and the interaction of theory and practice in culturally diverse, metropolitan, educational settings.

## Requirements for the Master of Arts in Teaching (M.A.T.) Degree

The Master of Arts in Teaching offers certification in elementary (grades 1-5), middle grades (grades 4-8) in English, mathematics, science, and social studies, secondary (grades 6-12) in English, mathematics, social studies, biology, chemistry, earth science, general science, and physics.

The Master of Arts in Teaching program requires 36-39 graduate credit hours in the following areas: learner and the learning environment, teaching methodology, literacy, research, and internship/student teaching. Details on the program of study for each certification option may be found at the college website at [www.uno.edu/coehd](http://www.uno.edu/coehd).

### Student Learning Outcomes

#### College of Education and Human Development M.A.T. in Curriculum and Instruction

The student completing the M. A. T. in Curriculum and Instruction will demonstrate the following:

1. Content knowledge by passing the appropriate Praxis for certification prior to completion of student teaching.
2. Appropriate dispositions for teaching by scoring at "satisfactory" or above on the dispositions rubric.
3. Appropriate instructional performance (ability to design, implement and evaluate effective curriculum and instruction) by scoring "acceptable" or better on the Teacher Work Sample.

### Admission

In addition to the admission requirements established by the Graduate School (see Graduate School), applicants must achieve passing scores on PRAXIS I as well as the relevant PRAXIS II subject assessment. PRAXIS I is not required for applicants with an ACT composite score of 22, an SAT (verbal and math) score of 1030, or who already have a master's degree. Official PRAXIS scores must be sent to the College of Education and Human Development. To be considered for admission applicants must submit official transcripts from each college and

university attended. One transcript with all transfer credits is not acceptable. The content knowledge of candidates applying to the middle school and secondary education programs will be assessed via a transcript review. In some cases, additional content coursework will be required prior to program admission. All applicants are required to purchase a Live Text account to support the development of an electronic portfolio. In order to enter the Teacher Education Program, applicants must complete a background check in accordance with the College of Education and Human Development. An applicant employed as an educator may provide the background check conducted by their employing district. All initial advising for this program occurs via the College of Education and Human Development academic counselors. Following initial advising, candidates are advised by a faculty advisor in the Department of Curriculum and Instruction for the duration of their program of study.

### Time Limit

Candidates employed as teachers with a Practitioners License (PL-3) must complete the MAT program within 4 years.

### Field Experience Requirements

Throughout the program, candidates complete field activities in school and classroom settings. Field work is supported in two ways: through assigned work associated with individual classes and within a student teaching (9 credits) or internship (6 credits) experience taken at the end of the program of study. Field experience opportunities support candidates in meeting all national and state standards associated with their certification area. The program includes specific requirements for the number and type of field experience hours that must be completed as well as for the development of an electronic portfolio that aligns artifacts resulting from field work with specific professional standards. All candidates must complete the student teaching (9 credits) or capstone internship (6 credits) during the last semester of the program of study. Candidates in Elementary and Middle School programs of study will not be permitted to enroll in other coursework during the student teaching/capstone internship experience. Candidates in Secondary Education programs of study will be permitted to enroll in the second methods course during student teaching or capstone internship if necessary to complete the program. Capstone Internship/Student Teaching for this program of study must be completed in one of the following parishes: Jefferson, Orleans, Plaquemines, St. Bernard, St. Charles, or St. Tammany.

More information on field experience requirements may be found at the college website at [www.uno.edu/coehd](http://www.uno.edu/coehd).

### Requirements for Completing Program

All certification programs in the College of Education and Human Development are performance-based. Candidates develop a professional portfolio to document the knowledge, skills and dispositions associated with effective teaching. Completion of the program of study requires successful performance in coursework, field experience, and candidate assessments specific to the area of study. In addition to assessments associated with specific courses in the program, candidates must pass a final assessment to complete the program and be recommended for a teaching certificate. All Praxis exams must be passed prior to graduation. More information on candidate assessment and program progression requirements may be found at the college website at <http://www.uno.edu/coehd/programs.aspx>.

Students in the M.A.T. program in the Department of Curriculum and Instruction cannot count more than six hours of graduate coursework with a grade lower than a B toward their degree program. In addition, any master's student receiving more than six hours of graduate coursework with a grade lower than a B in their degree program shall be dropped from the program.

Independent study/substitutions courses are approved only under extenuating circumstances. Independent study/substitutions must be approved by the Assistant Dean prior to enrollment in the independent study/substitution course. M.A.T. candidates will be allowed a maximum of 6 hours of independent study/substitution courses within the degree program.

### Louisiana Teacher Certification

Candidates who successfully complete all program requirements are recommended to the Louisiana Department of Education for a teaching certificate. All conditions listed above under "Louisiana Teacher Certification" must be satisfied. Candidates enrolled in this program while teaching may be eligible for a Practitioner License upon recommendation by the hiring school district.

## Requirements for the Master of Education (M.Ed.) Degree

### Student Learning Outcomes

#### College of Education and Human Development M.Ed. in Curriculum and Instruction

The student completing the M. Ed. in Curriculum and Instruction will demonstrate the following:

1. Understanding of the development and use of educational research to improve instruction by earning a grade of "A" in EDFR 6700.
2. Advanced knowledge of a specialty area by passing the juried comprehensive examination content rubric on the first try.
3. Quality of writing in areas of elaboration, organization, and conventions by scoring "2" or better on the juried comprehensive examination Depth and Convention Rubric.

### Admission

The prospective master's student must meet the admission requirements established by the Graduate School. In addition, applicants must hold a standard teaching certificate, complete the Graduate Record Examination General Test and be acceptable to the major department.

Unconditional admission to a master's program in Education requires an undergraduate grade point average of at least 2.50 and a satisfactory score on the Graduate Record Examination; as determined by the program. For those students who do not meet the standards for unconditional admission, probationary admission may be possible. For further information concerning probationary admission, please contact the Department of Curriculum and Instruction.

### Programs of Study

The minimum requirement in Curriculum and Instruction is 36 semester hours, including research methods, and a minimum of six semester hours in a minor or related field outside the major department. Students entering the department for secondary education master's programs in English, science, social studies, and mathematics are required to complete a minimum of nine semester hours from courses in cognate areas. Within the area of concentration, the student may select from a wide range of programs which are concerned with teaching or related instructional activities. These programs include curriculum, instruction, evaluation and appropriate specializations.

Students in a master's program in the Department of Curriculum and Instruction cannot count more than six hours of graduate coursework with a grade lower than a B toward their degree program. In addition, any M.Ed. candidate receiving more than six hours of graduate coursework with a grade lower than a B in their degree program shall be dropped from the program.

Each candidate is required to complete a minimum of 40 clock hours of field work associated with assignments in courses within the program of study. Candidates must develop an electronic portfolio aligned with professional standards to demonstrate their effectiveness as a teacher. Each candidate must also successfully complete performance assessments including a portfolio review and a written and/or oral comprehensive examination. The examination will concentrate on the application of educational practice and theory with emphasis on the major area of concentration, but may include the minor or related fields. Typically, the comprehensive examination is taken during the last semester of graduate study. Two failures of the examination necessitate dismissal from the master's program.

## Requirements for the Doctoral Degree

The Doctor of Philosophy (Ph.D.) degree is offered in Curriculum and Instruction in three major concentrations: General Curriculum, Literacy Studies and Language Education, and Teacher Development. The doctoral degree is conferred only for work of distinction in which the student displays power of original scholarship and only in recognition of achievement and marked ability. The standards of the quality for Doctor of Philosophy are high.

The general regulations and procedures governing programs leading to the Doctor of Philosophy, as explained elsewhere in this catalog, will be followed. Specific application of these regulations and procedures to doctoral programs in Curriculum and Instruction are listed below.

## Student Learning Outcomes

### College of Education and Human Development

#### Ph.D. in Curriculum and Instruction

The student completing the Ph. D. in Curriculum and Instruction will demonstrate the following:

1. Understanding of the development and use multiple types of educational research by receiving a compiled grade of 3.5 in 18-hour research sequence.
2. Understanding (and write about) content knowledge in area of concentration by passing the General Examination approved by a majority of graduate faculty serving on the student's committee
3. Ability to design and conduct effective academic research by completing the program a dissertation approved by majority of graduate faculty serving on the student's committee.

## Admission

In addition to the general requirements outlined in this catalog, the department has established these additional requirements for doctoral applicants:

1. Attainment of an acceptable score on the Graduate Record Examination as determined by the program.
2. Provide documents which indicate potential for completing a doctoral program.
3. Demonstration of satisfactory competence in written and oral communication.
4. Presentation of at least three letters of reference.
5. Favorable screening by a graduate faculty committee of Curriculum and Instruction.

Screening takes place in the fall semester for admission in the following fall. All paperwork should be on file in the office of the graduate coordinator of the Department of Curriculum and Instruction on or before the last working day of September. The student takes at least nine graduate hours in curriculum and instruction, including Curriculum and Instruction 6900, and then submits their program of study.

## Course Requirements

While the degree of Doctor of Philosophy cannot be earned simply by passing courses, the program of study requires a minimum of 96 semester hours beyond the requirements for the baccalaureate degree, including 18 hours of research tools. A minimum of 33 semester hours is required in Curriculum and Instruction. At least 33 semester hours must be completed after passing the qualifying examination, and at least 18 of these hours must be in Curriculum and Instruction. A minimum of 45 semester hours must be completed by students who have prior graduate work from another accredited university. All candidates must complete an 18 semester hour minor in a single area of concentration outside the major area of concentration.

Students in a doctoral program in the Department of Curriculum and Instruction cannot count more than six hours of graduate coursework with a grade lower than a B toward their doctoral degree. In addition, any doctoral student receiving six hours of graduate coursework with a grade lower than a B in the department following completion of the qualifying examination shall be dropped from the department's doctoral program.

## Research Tools

Ph.D. candidates must demonstrate competence in research methodologies through taking 18 credit hours of research courses. Ph.D. candidates may substitute a reading proficiency in one foreign language for one of the research courses, if approved by the Department of Curriculum and Instruction.

## General Examinations

An applicant becomes eligible for the general examination by demonstrating adequate academic and professional aptitude to the advisory committee. The general examination is ordinarily the most comprehensive evaluation in the entire doctoral program. The examination will be written and oral. The written examination covers both the major and minor fields. The oral examination concentrates on educational research, theory, and practice with emphasis on the major field. An applicant becomes eligible for candidacy after passing the general examination. However, two failures of the general examination will necessitate a dismissal from the doctoral program.

## Time Limit

There will be a time limit of five years for completion of coursework from qualifying examination to general examination and a five year limit from completion of general examination to completion of the doctoral dissertation. Extension of time limits may be requested by petitioning the department which houses the Department of Curriculum and Instruction as long as the request does not exceed the Graduate School's stated provisions.

Further information is contained in the department's doctoral handbook.

### Residence Requirement

All doctoral students are required to adhere to the residency policy established by the Graduate School.

### Financial Aid

Several types of fellowships, scholarships, and assistantships are available to a limited number of qualified applicants. Those receiving such grants will normally carry a full load of graduate courses and will devote time to instructional or research duties with graduate faculty members.

## Counselor Education

### Student Learning Outcomes

#### College of Education and Human Development M.Ed. in Counselor Education

1. Students will obtain current theoretical knowledge in the core areas of counseling
2. Students will develop identities as professional counselors.
3. Students will be exposed to issues in multicultural counseling.
4. Graduates will secure professional positions in counseling and counselor education.

### Requirements for the Master of Education (M.Ed.) Degree

Two concentrations are available in the master's degree programs in Counselor Education: Clinical Mental Health Counseling, and School Counseling. The Clinical Mental Health Counseling concentration prepares graduates to serve as counselors in the clinical mental health counseling context. The School Counseling concentration prepares graduates to serve as counselors in public, parochial, and private schools (pre-K through 12th grade).

### Admission

Prospective master's degree students must meet the admission requirements established by the Graduate School. In addition, applicants must present scores from the Graduate Record Examination (GRE) General Test earned in the last five years. Master's degree applicants will be considered based on criteria developed and published by the faculty. To be considered for admission to the program without probation, an applicant must have an undergraduate grade-point average of at least 2.50. Presentation of the minimum undergraduate grade-point average does not guarantee admission. Admission decisions are based on all criteria considered in relationship to the need of the program and number of students who can be reasonably accommodated. Applicants who present undergraduate grade-point averages that are lower than those listed above may be considered for admission on probation.

### Program of Study

Students in Counselor Education complete the Master of Education (M.Ed.) degree program in Counselor Education.

The minimum total graduate semester credits required for the M.Ed. program is 60. Master's degree programs are accredited by the Council for the Accreditation of Counselor Education and Related Educational Programs (CACREP). Programs include 36 counseling core credits, six counseling emphasis area credits, six counseling elective credits, three credits in research, and a minimum of nine credit hours in field work.

### Retention Standards

Students admitted to the master's degree program in Counselor Education must complete each of the following courses with a grade of B or better before they may enroll in the next course for which that course is a prerequisite: Counselor Education 6430, 6440, and 6896. Master's degree students will be dismissed for any of

the following academic reasons: they accumulate six or more hours of grades lower than B in graduate coursework required in their programs of study; their cumulative UNO graduate grade-point average for two consecutive semesters (fall and spring or spring and fall) is below 3.0; or they fail the comprehensive examination twice.

### Transfer of Credit

A student, with approval from the major professor and the department, may transfer six semester credits of graduate credit in which grades of B or better were earned that were taken in residence at another university outside the UL System or as many as 12 semester credits of graduate credit taken within the UL System. These transfer hours may be included in the program of study. Transfer credits, as well as all credits earned toward the degree, must have been taken within the time limit for Master's degrees (see Graduate School). Acceptance of credit for individual courses taken beyond the time limit, may be petitioned by the student's major professor upon from the Graduate Council.

### Comprehensive Examination

Master's degree students must pass a comprehensive examination, which must be taken near the end of the student's degree program. The examination covers all of the core areas of the student's field of study.

## Requirements for the Doctoral Degree

The Counselor Education Ph.D. program prepares counselors for leadership roles in the counseling profession. Research competency, advanced counseling skills, and practice in the clinical supervision of other counselors are emphasized in the program. Graduates generally choose careers as university faculty members (counselor educators), administrators of counseling programs, consultants, private practitioners, and researchers.

### Student Learning Outcomes

#### College of Education and Human Development Ph.D. in Counselor Education

1. Doctoral students will be prepared to assume leadership roles in the counseling and counselor education professions.
2. Doctoral students will learn research skills.
3. Doctoral students will develop skills in clinical counseling supervision and in advanced counseling practice during their academic programs.
4. Graduates will secure professional positions in counseling and counselor education.

### Admission

Prospective Ph.D. degree students must meet the admission requirements established by the Graduate School. In addition, applicants must complete the Graduate Record Examination (GRE) General Test. Ph.D. degree applicants are considered based on criteria developed and published by the faculty. To be considered for admission to the program without probation, an applicant must have a graduate grade-point average of at least 3.50. Presentation of the minimum graduate grade-point average does not guarantee admission. Admission decisions are based on all criteria considered in relationship to the needs of the program and number of students who can be reasonably accommodated. Applicants who present graduate grade-point averages that are lower than those listed above may be considered for admission on probation. In addition to the UNO Graduate Application, applicants to the Ph.D. program in Counselor Education must also submit the following: transcripts from all post-secondary schools attended; Graduate Record Examination (GRE) General Test scores taken within the last five years; a personal statement; a Counselor Education application for doctoral studies; a current resume; and three letters of reference. Finalists for admission who are invited must also interview with the program admissions committee. The interview process includes completion of a writing sample and a videotaped counseling interview.

### Programs of Study

The Ph.D. program goes well beyond the accumulation of graduate course credits. It includes coursework, supervised field experiences, completion of examinations, a research project, and a dissertation. The degree program includes a minimum of 114 graduate credits beyond the bachelor's degree. There are 48 credits of entry-

level core counseling courses (includes three credits in research), 12 credits of counseling courses in an area of concentration, 39 credits of doctoral-level core counseling courses (includes 12 credits in research), and 15 additional credits in research courses. Because of the number of credits completed in research (30 credits total), this area serves as the minor for doctoral students. The doctoral program includes a 100 hour practicum and a 600 hour internship. Concentration areas in counseling in the doctoral program are focused in a particular area of counseling such as college/student affairs counseling, clinical mental health counseling, or school counseling. A Program of Study must be completed at the end of the student's first year of enrollment in the doctoral program.

### Research Tools

Ph.D. students must complete a minimum of 30 credits in research, which includes coursework and dissertation research. Students develop competency in both quantitative and qualitative research methods. They choose one primary method for their dissertation and complete advanced research courses in that area.

### Retention Standards

Ph.D. degree students will be dismissed for any of the following academic reasons: they accumulate six or more hours of grades lower than B in graduate coursework required in their programs of study; their cumulative UNO graduate grade-point average for two consecutive semesters (fall and spring or spring and fall) is below 3.0; they fail the general or final (dissertation defense) examination twice.

### Residency

A doctoral student must earn two consecutive semesters of a minimum of nine hours of residence. The doctoral residence requirement may be met alternatively by three semesters of enrollment at six or more hours, which may be non-consecutive.

Students who are in residence for the purpose of the above requirement are expected to devote all of their energies to graduate study under the direct supervision of a major professor and/or advisory committee. Transfer credit from other institutions may be accepted in partial fulfillment of the residency requirement if approved by the department and the Executive Director of the Graduate School.

### Prior Master's Work

A student, with approval from the major professor and the department, may have credits earned toward one or more master's degrees completed at other universities and up to 15 semester hours earned outside of a master's degree program, applied to the Ph.D. curriculum. Only graduate credits in which grades of B were earned that were taken in residence at another university may be utilized.

### Continuous Enrollment

Doctoral students, after being admitted to the Ph.D. program, must enroll in graduate courses each fall and spring until being awarded the degree. A leave of absence must be formally requested from the faculty prior to any semester in which this requirement is not met. Students will be dismissed if they fail to meet this continuous enrollment requirement.

### General Examination

Students must successfully complete a general examination to continue in the Ph.D. program. Students may take the general examination when they have completed most of their coursework, as defined by the faculty.

### Time Limit

The Ph.D. in Counselor Education follows the Graduate School requirement for time limit (see Graduate School).

## Educational Leadership

### Student Learning Outcomes

#### College of Education and Human Development M.Ed. in Educational Leadership

1. Students will demonstrate standards-relevant knowledge believed necessary for competent professional practice
2. Students will apply theory to problems of professional practice in educational settings.

3. Students will demonstrate appropriate dispositions to be an effective school leader.

### Requirements for the Master of Education (M.Ed.) Degree

The master's program in Educational Leadership prepares graduates for leadership positions in K-12 school settings. For the K-12 school setting, courses are offered for the "Teacher Leader Endorsement" and "Educational Leader Level 1". Successful completion of EDAD 6800 and EDAD 6805 (6 graduate hours) allows a teacher candidate to apply to the Louisiana State Department of Education for the "Teacher Leader Endorsement" to be added to their teaching certificate. After the first 6 hours, potential students are screened for admission into the 36 credit hour program of study which results in a Master's Degree in Educational Leadership. Completers of the Master's Degree Program qualify to apply for certificate/license as an "Educational Leader Level 1".

The Educational Leader Level 1 is an entry-level license for individuals seeking to qualify for school and/or district leadership positions (e.g., assistant principals, principals, parish or city supervisors of instruction, supervisors of child welfare and attendance, special education supervisors, or comparable school/district leader positions). An individual can move from an Educational Leaders Level 1 to a Level 2 license upon completion of the Educational Leader Induction Program and the required years of experience. A Level 3 license qualifies an individual for employment as a district superintendent.

### Admission

Prospective master's degree students must meet the admission requirements established by the Educational Leadership Program. Applicants must have an undergraduate grade-point average of at least 2.5 and must present scores from the General Test of the Graduate Record Examination that were earned in the last five years. A minimum GRE score is determined by the program. Master's degree applicants are considered based on criteria developed and published by the faculty. Presentation of the GRE scores and undergraduate grade-point average does not guarantee admission to the program. Admission to the program includes an application procedure as determined by the program. Admission decisions are based on all criteria considered in relationship to the need of the program and number of students who can be reasonably accommodated.

### Program of Study

Students in Educational Leadership complete the Master of Education (M.Ed.) degree program in K-12 Educational Leadership which includes 36 credit hours including three hours of research. The Master of Education in K-12 Educational Leadership is an approved Educational Leader Level 1 certification program by the Louisiana Board of Elementary and Secondary Education. A Program of Study must be completed at the end of the student's first year of enrollment in the master's program.

### Retention and Graduation Standards

To remain in the master's program, students must not accumulate more than two grades lower than a B and must meet all requirements of the Educational Leadership program. M.Ed. students must pass the Comprehensive Examination. The comprehensive exam cannot be taken more than twice.

### Transfer Credit

A student, with approval from the major professor and the department, may transfer six semester hours of graduate credit in which grades of B or better were earned that were taken in residence at another university outside the UL System or as many as 12 semester hours of graduate credit taken within the UL System. These transfer hours may be included in the program of study. Transfer credits, as well as all credits earned toward the degree, must have been taken within the time limit for Master's degrees (see Graduate School). Acceptance of credit for individual courses taken beyond the time limit may be petitioned student's major professor from the Graduate Council.

### Comprehensive Examination

M.Ed. degree students must pass a comprehensive examination, which must be taken near the end of the student's degree program. The examination covers all of the core areas of the student's field of study. The student must be enrolled at the University during the semester in which the Comprehensive Exam is taken and during the semester of graduation.

### Time Limit

M.Ed. students must follow the time limit for Master's degrees.

## Ph.D. in Educational Administration

### Student Learning Outcomes

#### College of Education and Human Development

#### Ph.D. in Educational Administration

1. All graduates will complete a research project of publishable quality by graduation as judged by a jury of faculty members.
2. All students will demonstrate a specialized knowledge of the scholarship in the area of school leadership or higher education administration by passing a jury judged General Examination prior to graduation.
3. Students will demonstrate the ability to analyze, evaluate, and take a position on a current issue of practice in the field of school leadership or higher education administration.

### Requirements for the Doctoral Degree

The Educational Administration Ph.D. program is intended for those who plan an inquiry into the issues of educational leadership through a theoretical framework. The Ph.D. studies in educational administration emphasize research methodology, both quantitative and qualitative. The program curriculum focuses on understanding and leading education as a PK-16+ integrated system. Concentrations are available in K-12 school leadership and higher education administration. Study for the Ph.D. is suited for those planning careers in school and university administration, university teaching, research departments of large school systems or state agencies, or any education-related leadership profession.

The general regulations and procedures governing programs leading to the Doctor of Philosophy, as explained elsewhere in this catalog, will be followed. Specific application of these regulations and procedures to doctoral programs in education, as well as fundamental differences in the programs, is listed below.

### Admission

Prospective Ph.D. degree students must meet the admission requirements established by the Graduate School. In addition, applicants must complete the Graduate Record Examination (GRE) General Test. Ph.D. degree applicants are considered based on criteria developed and published by the faculty. To be considered for admission to the program without probation, an applicant must present a minimum score on the GRE as determined by the program, and must have a graduate grade-point average of 3.0 or higher. Presentation of the minimum test scores and graduate grade-point averages does not guarantee admission. Admission decisions are based on all criteria considered in relationship to the needs of the program and number of students who can be reasonably accommodated. Applicants who present test scores or graduate grade-point averages that are lower than those listed above may be considered for admission on probation. In addition to the UNO Graduate Application, applicants to the Ph.D. program in Educational Administration must also submit the following: transcripts from all post-secondary schools attended; Graduate Record Examination (GRE) General Test scores taken within the last five years; an Educational Administration application for doctoral studies; a statement of purpose; issue statement; a current resume; and three letters of reference. It is recommended that applicants consult at least one program faculty member early in the process of preparing the application. Students who submit complete applications prior to the date published by the department will be considered.

### Program of Study

The Ph.D. program goes well beyond the accumulation of graduate course credits. It includes coursework, completion of examinations, a research project, and a dissertation. The degree program includes a minimum of 93 credits beyond the bachelor's degree. Students take a group of core doctoral courses, research methods courses, and concentration courses either in K-12 or higher education administration, and electives. Students should consult the department for specific requirements.

### Research Tools

Ph.D. students must complete a minimum of 21 credits in educational research methods. Students develop competency in both quantitative and qualitative research methods.

### Retention Standards

Ph.D. degree students will be dismissed for any of the following reasons: they accumulate six or more hours of grades lower than B in graduate coursework required in their programs of study (this includes the accumulation of more than one "U" grade in EDAD 7050, indicating lack of progress on the dissertation); their cumulative UNO graduate grade-point average for two consecutive semesters (fall and spring or spring and fall) is below 3.0; they fail the qualifying, general, or final (dissertation defense) examination twice; or they fail to maintain continuous enrollment in all fall and spring semesters until successful completion of the dissertation and graduation.

### Residency

A doctoral student must earn two consecutive semesters of a minimum of nine hours of residence. The doctoral residence requirement may be met alternatively by three semesters of enrollment at six or more hours, which may be non-consecutive.

Students who are in residence for the purpose of the above requirement are expected to devote all of their energies to graduate study under the direct supervision of a major professor and/or advisory committee.

### Prior Master's Work

A student, with approval from the major professor and the department, may apply all credits earned toward one or more master's degrees completed at other universities and up to 15 semester hours earned outside of a master's degree program towards the doctoral curriculum. Only graduate credits in which grades of B were earned that were taken in residence at another university may be applied. A minimum of 54 credits must be earned at UNO.

### Research Project

Doctoral students complete a research project as defined by the faculty prior to taking their general examination.

### Continuous Enrollment

Doctoral students, after being admitted to the Ph.D. program, must enroll in graduate courses each fall and spring until being awarded the degree. A leave of absence must be formally requested from the faculty prior to any semester in which this requirement is not met. Students will be dismissed if they fail to meet this continuous enrollment requirement.

### Qualifying Examination

After successful screening into the PhD program, and typically during the second semester of their enrollment in the program, students must successfully complete the Qualifying Examination to qualify for continued enrollment in the program. Program faculty develop exam content and evaluate student responses to the exam. The exam is designed to assess the level of critical thinking and scholarly writing demonstrated by the student.

### General Examination

Students must successfully complete a general examination to continue in the Ph.D. program. Students may take the general examination when they have completed most of their coursework, as defined by the faculty, and garnered advisor approval of the dissertation prospectus for the proposed dissertation research project.

### Time Limit

New doctoral students must complete their degree not more than six years from admission to candidacy (Generals) to degree completion. Prior work completed that is applied toward the degree must have been completed within nine years of the date the Ph.D. is awarded.

## Special Education and Habilitative Services

### Programs in Special Education

Graduate study is offered in Special Education which may lead to the Master of Arts in Teaching, Master of Education, or Doctor of Philosophy (Ph.D.). The Master of Arts in Teaching degree is designed to offer candidates with a bachelor degree outside the field of education an opportunity to address the requirements of an initial level teaching certificate within a master's degree program. Candidates enrolled in the M.A.T. option may address the certification requirements for early intervention, deaf/hard of hearing, significant disabilities, or dual certification in general education and special education – (mild/moderate disabilities). The Master of Education (M.Ed.) degree is designed to offer candidates who already hold teacher certification an opportunity to address one or more

advanced preparation objectives including the requirements of an add-on certification option, advanced preparation in their existing certification area, coursework addressing an advanced skill set, or additional training in one or more content areas. The program of study for the Doctor of Philosophy (Ph.D.) provides maximum flexibility for each graduate student in designing a program which will meet professional objectives. The doctoral program incorporates innovative approaches to leadership training grounded in the interaction of theory and practice.

### Requirements for the Master of Arts in Teaching Degree

The Master of Arts in Teaching in Special Education offers certification in deaf/hard of hearing (grades 1-12), early intervention (birth – age 5), significant disabilities (grades 1-12) and mild/moderate disabilities (grades 1-5, 4-8 and 6-12). The mild/moderate disabilities certification is offered through an Integrated to Merged program which results in certification in mild/moderate disabilities and in elementary (grades 1-5), middle grades (grades 4-8), or secondary education (grades 6-12). Note that certification in Middle school and secondary is specific to one content area.

The Master of Arts in Teaching program requires 36-39 graduate credit hours in the following areas: learner and the learning environment, teaching methodology, literacy, research, and internship/student teaching. Details on the program of study for each certification option may be found at the college website at [www.uno.edu/coehd](http://www.uno.edu/coehd).

### Student Learning Outcomes

#### College of Education and Human Development M.A.T. in Special Education

1. Demonstrate appropriate dispositions to be an effective special educator
2. Demonstrate ability to design, implement, and evaluate instruction for students with disabilities
3. Demonstrate knowledge and skills in teacher education competencies

### Admission

In addition to the admission requirements established by the Graduate School which include an overall grade point average of 2.5 and a satisfactory score on the Graduate Record Examination (GRE), applicants must achieve passing scores on PRAXIS I as well as the relevant PRAXIS II subject assessment. PRAXIS I is not required for candidates with an ACT composite score of 22, an SAT (verbal and math) score of 1030, or who already have a master's degree. Official PRAXIS scores must be submitted to the College of Education and Human Development office. All applicants must submit official transcripts from each college and university attended. One transcript with all transfer credits is not acceptable. The content knowledge of applicants seeking admission into the middle school and secondary education programs will be assessed via a transcript review. In some cases, additional content coursework will be required prior to program admission. All applicants are required to purchase a Live Text account to support the development of an electronic portfolio. In order to enter the Teacher Education Program, applicants must complete a background check in accordance with the College of Education and Human Development. Any applicants employed as an educator may provide the background check conducted by their employing district. All initial advising for this program occurs via the College of Education and Human Development academic counselors. Following initial advising, candidates are advised by a faculty advisor in the Department of Special Education and Habilitative Services for the duration of their program of study.

### Time Limit

Candidates employed as teachers with a Practitioners License (PL-3) must complete the MAT program within 4 years.

### Field Experience Requirements

Throughout the program, candidates complete field activities in school classroom and community settings. Field work is supported in two ways: through assigned work associated with individual classes and within a student teaching (9 credits) or internship (6 credits) experience taken at the end of the program of study. Field experience opportunities support candidates in meeting all national and state standards associated with their certification area. The program includes specific requirements for the number and type of field experience hours that must be completed as well as for the development of an electronic portfolio that aligns artifacts resulting from field work

with specific professional standards. All candidates must complete the student teaching (9 credits) or capstone internship (6 credits) during the last semester of the program of study. Candidates in Early Intervention, Deaf/Hard of Hearing, Significant Disabilities, and Elementary programs of study will not be permitted to enroll in other coursework during the student teaching or capstone internship experience. Candidates in Middle School and Secondary Education programs of study will be permitted to enroll in the second methods course during student teaching or capstone internship if necessary to complete the program. Capstone Internship/Student Teaching for this program of study must be completed in one of the following parishes: Jefferson, Orleans, Plaquemines, St. Bernard, St. Charles, or St. Tammany.

More information on field experience requirements may be found at the college website at [www.uno.edu/coehd](http://www.uno.edu/coehd).

### Requirements for Completing Program

All certification programs in the College of Education and Human Development are performance-based. Candidates develop a professional portfolio to document the knowledge, skills and dispositions associated with effective teaching. Completion of the program of study requires successful performance in coursework, field experience, and candidate assessments specific to the area of study. In addition to assessments associated with specific courses in the program, candidates must pass a final assessment to complete the program and be recommended for a teaching certificate. All Praxis exams must be passed prior to graduation.

More information on candidate assessment and program progression requirements may be found at the college website at [www.uno.edu/coehd](http://www.uno.edu/coehd).

Students in the M.A.T. program in the Department of Special Education cannot count more than six hours of graduate coursework with a grade lower than a B toward their degree program. In addition, any master student receiving more than six hours of graduate coursework with a grade lower than a B in their degree program shall be dropped from the program.

Independent study/substitution courses are approved only under extenuating circumstances. Independent study/substitution must be approved by the Assistant Dean prior to enrollment in the independent study/substitution course. M.A.T. candidates will be allowed a maximum of 6 hours of independent study/substitution courses within the degree program.

### Louisiana Teacher Certification

Candidates who successfully complete all program requirements are recommended to the Louisiana Department of Education for a teaching certificate. All conditions listed above under "Louisiana Teacher Certification" must be satisfied. Candidates enrolled in this program while teaching may be eligible for a Practitioner License upon recommendation by the hiring school district.

## Requirements for the Master of Education (M.Ed.) Degree

The Department of Special Education and Habilitative Services has an advanced master's degree program which provides an opportunity for the student to pursue additional certifications in the field of special education. The focus areas listed below can be embedded within the program:

1. Mild/Moderate Disabilities
2. Significant Disabilities
3. Early Intervention
4. Deaf/Hard of Hearing
5. Gifted/Talented Education

### Student Learning Outcomes

#### College of Education and Human Development M.Ed. in Special Education

1. Demonstrate ability to design and implement an applied project
2. Demonstrate ability to articulate a philosophy statement related to their area of special education

3. Demonstrate ability to articulate evidence-based practices

### Admission

Admission to a M.Ed. program in Special Education requires a grade-point average of at least 2.5 for undergraduate work and 3.0 for graduate work, if applicable, and a satisfactory score on the Graduate Record Examination (GRE). In addition, the applicant must be certified in an area of education.

### Program of Study

The master's program in Special Education (M.Ed.) includes a minimum requirement of 36 semester hours including a minimum of three hours in research methods and a minimum of six semester hours in a minor or related field outside of the major department along with coursework in the major area of study.

A student in a master's program in the Department of Special Education and Habilitative Services may not count toward degree requirements more than six hours of graduate coursework with a grade below a B (i.e., no more than 2 C's). In addition, any M.Ed. candidate receiving more than six hours of graduate coursework with a grade lower than a B in their degree program shall be dropped from the department's program.

Each master's candidate is required to complete field work associated with assignments in courses within the program of study. Each candidate must also successfully complete a written comprehensive examination. The examination concentrates on the application of educational practice and theory with emphasis on the major area of concentration, but may include the minor or related fields. Typically, the comprehensive examination is taken during the last semester of graduate study. Two failures of the examination necessitate dismissal from the master's program. More information may be found on the Special Education website at <http://www.uno.edu/coehd/AdvancedPrograms/EDSP/MEdSE.aspx>.

## Ph.D. in Special Education

### Student Learning Outcomes

#### College of Education and Human Development

#### Ph.D. in Special Education

1. Demonstrate competency in research, personnel preparation, and systems via products and activities in portfolio that reflect the first stage of the doctoral program
2. Demonstrate competency in research, personnel preparation, and systems via products and activities in portfolio that reflect the second stage of the doctoral program
3. Demonstrate ability to write a presentation proposal that is accepted and presented at a state or national conference
4. Complete a high quality dissertation

### Requirements for the Doctoral Degree

The Doctor of Philosophy (Ph.D.) degree offered in Special Education incorporates innovative approaches to leadership training. The general regulations and procedures governing programs leading to the Doctor of Philosophy degree, as explained elsewhere in the catalog, will be followed.

### Program Description

Students enrolled in the program address critical issues through coursework and field experiences. Primarily, courses are divided among the following areas:

1. special education,
2. research, and
3. the minor area of study.

In addition to completing formal coursework, students address identified competencies through participation in a variety of professional activities in both university and field settings. The competencies are addressed across the three leadership areas: research, personnel preparation, and systems intervention.

Students are offered concentrated areas of study within Special Education and Habilitative Services. Areas of study include mild/moderate disabilities, significant disabilities, early intervention, deaf/hard of hearing, and gifted/talented education. The doctoral student selects a major area of emphasis in special education (usually based on prior educational and professional experiences) and one minor area to broaden his/her experience. A broader program of study creates flexibility and strengthens the training of future leaders in the field of Special Education and Habilitative Services.

As each student progresses through the coursework and field experiences, the program of study is further individualized. Students are expected to:

1. conduct field experiences via internship and coursework,
2. focus on issues and content targeted for a particular exceptionality or age group(s), and
3. focus on particular activities which allow the student to build professional skills and capacity.

Throughout the program of study, each student maintains a professional portfolio of the various products resulting from the activities selected via coursework, field experiences, and committee input. The portfolio is used as a primary component of the student evaluation process throughout the program of study.

### Admission

To be considered for provisional admission to the doctoral program in Special Education and Habilitative Services, a student must meet all Graduate School admission criteria listed in the UNO Catalog but must first meet the following required criteria:

1. At least a 2.5 undergraduate grade point average and a 3.0 graduate grade point average.
2. Graduate Record Exam (GRE) satisfactory scores on the verbal and quantitative sections of the exam. The GRE must have been taken within five years of the date of applying for admission to the Department of Special Education and Habilitative Services.
3. At least three letters of recommendation from outside the UNO community. Letters are to be addressed to the Graduate Program Coordinator in the Department of Special Education and Habilitative Services.
4. Current resume detailing education, experience, honors and awards, and other accomplishments of the applicant.
5. Documentation of three years of professional experience in Special Education or a closely related field.
6. Ability to communicate effectively in written form as demonstrated by writing a personal essay.
7. Ability to articulate professional and personal goals through an oral interview conducted by the Screening Committee.

### Acceptance and Qualifying Exam

Screening takes place in the spring semester for admission in the fall. All paperwork should be on file in the office of the Graduate Program Coordinator in the Department of Special Education and Habilitative Services on or before the first day of April. Applicants who are favorably screened into the doctoral program are accepted provisionally. The student takes at least 12 graduate credit hours with a passing grade of "B" or higher in each course and then completes the qualifying examination. Courses to be counted are specified by the doctoral advisor and committee. In addition to the courses required, the qualifying examination is taken no earlier than one year after entering the program with approval of the major professor and doctoral committee. The qualifying examination itself focuses on activities related to the three leadership roles and is portfolio-based.

### Required Hours

All doctoral students must have a minimum of 81 graduate credit hours past the baccalaureate degree. Required hours include a minimum of 18 graduate credit hours in research methodologies. A minimum of 36 credit hours in Special Education and Habilitative Services is required for the Ph.D., including five core doctoral seminars focusing on professional skills and leadership roles, a minimum of nine hours of dissertation study, and a minimum of three credit hours of internship. Also, a minimum of 18 credit hours is required in a minor area of study. Students also complete a minimum of three hours in educational foundations which may not include research courses. Any student in the doctoral program who accumulates six semester credit hours of graduate coursework with a grade of C or lower will be dropped from the program.

### Internship

Doctoral students must complete an internship as part of the program of study. The internship activities are individualized and determined by the student, the major advisor, and doctoral committee. Typically, the internship is used to build the students' skills in one or more of the areas of research, personnel preparation, and systems intervention.

### Residency

All doctoral students are required to adhere to the residency policy established by the Graduate School.

### General Examination and Doctoral Candidacy

To be admitted to doctoral candidacy status, a student must pass a portfolio-based general examination. A doctoral student becomes eligible to take the general examination after demonstrating adequate academic and professional growth in coursework, field experience, and artifacts through on-going portfolio review. The general examination consists of advanced portfolio evaluation by the student's major professor and doctoral committee. In addition to passing the general examination, a doctoral student must demonstrate research competence by participating in all phases of a pre-dissertation project prior to beginning work on the dissertation. If a student fails the general examination twice, he/she will be dismissed from the doctoral program.

### Time Limits

Doctoral students must complete all requirements, including a dissertation that demonstrates original scholarship, within the Graduate School time limit (see Graduate School, General Graduate Program Requirements).



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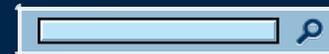


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## Courses of Instruction

Courses offered during the academic year covered by this Catalog will be selected from those described on the following pages. The course number is shown to the left of the Title. The significance of the four digit numbering system is:

### First digit

- "0" - indicates the course does not carry degree credit
- "1" - indicates the course is taught at an introductory or freshman level
- "2" - indicates the course is taught at an intermediate level or at an introductory level within a specific discipline; oftentimes require freshman level prerequisite completion
- "3" - typically referred to as junior level or upper-division courses; indicates the course is oftentimes taught at a level requiring both freshman and sophomore level prerequisite completion
- "4" - typically referred to as senior level or upper-division courses; indicates the course is almost always taught at a level requiring junior level prerequisite completion
- "5" - those courses offered at the graduate level (typically in conjunction with an undergraduate level class but requires additional academic work)
- "6" - those courses offered for graduate students only
- "7" - those courses offered for graduate students only

### Second digit

Many areas use the second digit to designate sub-areas within their areas. Otherwise the second digit has no significance.

### Third digit

The third digit has no specific meaning except when it is the figure nine. A nine as the third digit means that the course content varies from semester to semester.

### Fourth digit

The fourth digit has no specific significance unless it is the figure nine.

Courses numbered "1000" – "4999" are available for undergraduate students only. Graduate students should not enroll in undergraduate courses. Courses numbered in the "5000" range and above are available for graduate students only.

Shown on the same line with the Title of the course is the designation of the credit hours which the course carries. The credit hour value is generally based on the number of class hours per week. One hour of classroom work per week is usually valued at one credit hour. Some departments give one credit hour for two hours of laboratory work per week while some require three or more hours of laboratory work for one credit hour.

Normally, if the course consists solely of lecture, or lecture-discussion type meetings, the number of meetings per week will be the same as the credit hours earned for the course and no statement is made as to the type or

number of meetings per week. In other situations, the type and number of meetings is usually stated.

The following are the different colleges and courses offered:

- |                                                        |                                             |
|--------------------------------------------------------|---------------------------------------------|
| Academic Orientation                                   | German                                      |
| Accounting                                             | Health-Safety Education                     |
| Aerospace Studies                                      | History                                     |
| Anthropology                                           | Hotel, Tourism & Restaurant Administration  |
| Arts and Sciences                                      | Human Performance                           |
| Arts Administration                                    | Humanities                                  |
| Biological Sciences                                    | Interdisciplinary Studies                   |
| Business Administration                                | International Studies                       |
| Chemistry                                              | Italian                                     |
| Chinese                                                | Japanese                                    |
| Civil and Environmental Engineering                    | Journalism                                  |
| Computer Science                                       | Latin                                       |
| Cooperative Education-Business Administration Majors   | Management                                  |
| Cooperative Education-Education Majors                 | Marketing                                   |
| Cooperative Education-Engineering Majors               | Mathematics                                 |
| Cooperative Education-Interdisciplinary Studies Majors | Mechanical Engineering                      |
| Cooperative Education-Liberal Arts Majors              | Military Science                            |
| Cooperative Education-Sciences Majors                  | Music                                       |
| Education                                              | Naval Architecture and Marine Engineering   |
| Counselor Education                                    | Naval ROTC                                  |
| Curriculum and Instruction                             | Organizational Leadership                   |
| Earth and Environmental Sciences                       | Philosophy                                  |
| Economics                                              | Physics                                     |
| Educational Administration                             | Political Science                           |
| Educational Foundations and Research                   | Psychology                                  |
| Electrical Engineering                                 | Quantitative Methods-Business & Economics   |
| Engineering                                            | Romance Languages                           |
| Engineering and Applied Sciences                       | Sociology                                   |
| Engineering Management                                 | Spanish                                     |
| English                                                | Special Education and Habilitative Services |
| Film and Theatre Arts                                  | University Success                          |
| Finance                                                | Urban Studies                               |
| Fine Arts                                              | Master of Urban and Regional Planning       |
| Foreign Languages                                      | Master of Public Administration             |
| French                                                 | Doctor of Urban Studies                     |
| Geography                                              | Women's and Gender Studies                  |



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Graduate School

# Graduate School

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