

## **BS IN CIVIL ENGINEERING DEGREE REQUIREMENTS**

### **General Education Requirements**

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#### **English**

- ENGL 1157 - English Composition 1 - **Credits: 3**
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- ENGL 1158 - English Composition 2 - **Credits: 3**  
OR
- ENGL 1159 - English Composition 2 Honors - **Credits: 3**<sup>1</sup>

#### **Mathematics**

- MATH 2114 - Calculus I - **Credits: 4**<sup>3</sup>
- MATH 2124 - Calculus II - **Credits: 4**<sup>3</sup>

#### **Science**

- BIOS **Credits: 3**
- PHYS 1061 - Physics Sci Engr I - **Credits: 3**
- PHYS 1062 - Physics Sci Engr II - **Credits: 3**

#### **Humanities**

- ENGL 2152 - Technical Writing - **Credits: 3**
- ENGL Literature **Credits: 3**
- Humanities Elective **Credits: 3**<sup>2</sup>

#### **Social Sciences**

- ECON 1203 - Principles of Microeconomics - **Credits: 3**
- or
- ECON 1330 - Financial Literacy - **Credits: 3**
- Social Science Elective (ANTH, ECON, GEOG, POLI, PSYC, SOC, URBN) **Credits: 3**

#### **Arts**

- (Fine Arts, Music, FTA except FTA 2650, 2660) **Credits: 3**

**Total Credit Hours: 39**

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### **Other Requirements**

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- MATH 2134 - Calculus III - **Credits: 4**
- MATH 2221 - Elem Differential Equations - **Credits: 3**
- MATH 2314 - Elementary Statistical Methods - **Credits: 3**
- CHEM 1017 - General Chemistry I - **Credits: 3**
- PHYS 1065 - Physics Lab for Science & Engr - **Credits: 1**
- PHYS 1063 - Physics Lab for Science & Engr - **Credits: 1**
- ENCE 2302 - Civil Eng Comp & Gr Lecture - **Credits: 3**
- ENCE 2303 - Program Graphics Lab - **Credits: 1**
- ENCE 2310 - Elem Surveying Measurements - **Credits: 3**
- ENCE 2350 - Statics - **Credits: 3**
- ENCE 2351 - Mechanics of Materials - **Credits: 3**
- ENCE 2311 - Mechanics of Materials Lab - **Credits: 1**
- ENME 2750 - Dynamics - **Credits: 3**
- ENCE Electives **Credits: 6**<sup>5</sup>

**Total Credit Hours: 40**<sup>4</sup>

## Course Requirements for Major

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- ENCE 3318 - Fluid Mechanics - **Credits: 3**
- ENCE 3327 - Intro to Environmental Engr - **Credits: 3**
- ENCE 3326 - Environmental Engineering Lab - **Credits: 1**
- ENCE 3340 - Geotechnical Engineering - **Credits: 3**
- ENCE 3341 - Soil Mechanics Laboratory - **Credits: 1**
- ENCE 3356 - Structural Analysis - **Credits: 4**
- ENCE 3391 - Construction Pr Management - **Credits: 3**
- ENCE 4097 - Special Topics Civil Engr - **Credits: 3**
- ENCE 4318 - Hydraulic Engineering Systems - **Credits: 3**
- ENCE 4319 - Fluid Mech & Hyd Engr Lab - **Credits: 1**
- ENCE 4321 - Hydrology - **Credits: 3**
- ENCE 4323 - Design Water/Wastewater Syst - **Credits: 3**
- ENCE 4340 - Foundation Engineering - **Credits: 3**
- ENCE 4358 - Structural Steel Design - **Credits: 3**
- ENCE 4359 - Structural Concrete Design - **Credits: 3**
- ENCE 4386 - Principles Transp & Hwy Engr - **Credits: 3**
- ENCE 4390 - Sr Civil Engr Design Project - **Credits: 3**
- ENCE 4399 - Civil Envir Engr Seminar - **Credits: 2**

**Total Credit Hours: 48**

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**Total Credit Hours Required: 127**

Minimum Cumulative GPA of 2.0 for all undergraduate coursework.

1. "C" or better required
2. Check General Education Courses to confirm courses fulfilling this requirement.  
Check [General Education Courses](#) to confirm what courses fulfill this requirement.
3. 6 credits of Math satisfy listed in general education. Check [General Education Courses](#) to confirm what courses fulfill this requirement.
4. Includes 2 credits of Math listed in General Education Requirements section.  
Check [General Education Courses](#) to confirm what courses fulfill this requirement.
5. Electives must be selected from 4000-level courses and must include a minimum of six credits.
6. To graduate with a degree in Engineering, the student must satisfy the General Degree requirements of the University.