

Roadmap: Mathematics, B.S.

College of Sciences, Revised for Fall 2014

This roadmap is a recommended semester-by-semester plan of study for this major. However, courses and milestones designated as critical (in boldface) must be completed in the semester listed to ensure timely degree progression.

Course Subject and Title	Credit Hours	Min. Grade	Important Notes and/or Prerequisites
Semester One: [15 Credit Hours]			
UNIV 1001 University Success	1		Required of all first-time freshmen Counts as a free elective
ENGL 1157 English Comp. I	3		If placed in ENGL 1158, bypass credit may be earned for 1157
Math 2121	4	C	MATH 1126 grade of C or better or placement
Foreign Language I	3		French, German, Russian recommended
Free Elective	4		
Semester Two: [16 Credit Hours]			
ENGL 1158 or 1159	3	C	Placement or ENGL 1157 (1159 is honors substitute for 1158)
MATH 2124	4	C	MATH 2114 OR 2111 OR 2108 grade of C or better
Foreign Language II	3		In same language as Foreign Lang I
Social Science Elective	3		
Free elective	3		Some low level College of Sciences classes do not count as free electives
Semester Three: [16-17 Credit Hours]			
Science Elective	3	C	Some low level College of Sciences classes do not count as science electives
Literature	3		Make sure it is literature and not writing and/or composition
MATH 2134	4	C	MATH 2124 OR 2112 OR 2109 grade of C or better
PHYS 1061 Physics for Sci. & Engr. I	3	C	Credit/enrollment in MATH 2114 or 2107 or 2111 and concurrent enrollment in PHYS 1063
PHYS 1063 Physics for Sci. & Engr. I Lab	1	C	Credit/enrollment in PHYS 1061
Arts	3		
Semester Four: [16 Credit Hours]			
MATH 2221 or Math 2314	3	C	(MATH 2124 OR 2112 OR 2109 grade of C or better) OR (Credit for MATH 1115 or higher or 6 hrs in MATH courses numbered at least 1000)
MATH 3511	3	C	MATH 2134 OR PHYS 1061 (OR MATH 2109 OR MATH 2112)
Physics 1062 Physics for Sci. & Engr.	3	C	PHYS 1061 & credit/enrollment in MATH 2124 or 2108 or 2112 & credit/enrollment in PHYS 1065
Physics 1065 Physics Lab for Sci. & Engr.	1	C	Credit/enrollment in PHYS 1062
Biology	3	C	
Social Science Elective	3		

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Semester Five: [15 Credit Hours]			
MATH 3721	3	C	(Math 1115 or higher) OR 6 hours in MATH courses numbered at least 1000
MATH 3000+	3	C	
Science Elective	3	C	Some low level College of Sciences classes do not count as science electives
CSCI 1581+1583 or CSCI 1205	3-4	C	Java or C++ programming
Free elective	3		Some low level College of Sciences classes do not count as free electives
Semester Six: [15 Credit Hours]			
MATH 4511	3	C	Math 3511 or Math 3512; This class is taught every spring
MATH 3000+ level	3	C	
Science Elective	3	C	Some low level College of Sciences classes do not count as science electives
Free elective	3		Some low level College of Sciences classes do not count as free electives
Free elective	3		Some low level College of Sciences classes do not count as free electives
Semester Seven: [14-15 Credit Hours]			
MATH 3512	3	C	MATH 3511; Math 3721 recommended ; This class is taught every fall
MATH 4101	3	C	Math 2124 OR 2112 OR 2109 with a grade of C or better; This class is taught every fall
Science Elective	2-3	C	Some low level College of Sciences classes do not count as science electives; Whether this is 2 or 3 credits depends upon which CSCI class was taken
Free elective	3		Some low level College of Sciences classes do not count as free electives
Free elective	2		Some low level College of Sciences classes do not count as free electives
Semester Eight: [12 Credit Hours]			
MATH 4000+ level	3	C	
MATH 4000+ level	3	C	
MATH 4000+ level	3	C	
MATH 3900	0	P	Consent of department
Free elective	3		Some low level College of Sciences classes do not count as free electives