

**PETREE COLLEGE OF ARTS & SCIENCES**  
**Four Year Plan (124 CHs total) \***  
**Bachelor of Science (B.S.) in Mathematics Degree**

First Year – Fall Semester	✓	First Year – Spring Semester	✓
Calculus and Analytic Geometry I (MATH 2004) Foundations of Mathematics (MATH 2403)	<input type="checkbox"/>	Calculus and Analytic Geometry II (MATH 2104)	<input type="checkbox"/>
English Composition I (ENGL 1113) Liberal Arts Seminar (LAS 1063) General education course	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	English Composition II (ENGL 1213) General education course(s)	<input type="checkbox"/> <input type="checkbox"/>
Total: 15-16 CHs		Total: 15-16 CHs	
Second Year – Fall Semester	✓	Second Year – Spring Semester	✓
Multivariate Calculus (MATH 3403) Probability and Statistics I (MATH 3203) **	<input type="checkbox"/> <input type="checkbox"/>	Algebraic Structures (MATH 3103) Linear Algebra (MATH 3003)	<input type="checkbox"/> <input type="checkbox"/>
General education course(s)	<input type="checkbox"/> <input type="checkbox"/>	General education course(s)	<input type="checkbox"/> <input type="checkbox"/>
Total: 15-16 CHs		Total: 15-16 CHs	
Third Year – Fall Semester	✓	Third Year – Spring Semester	✓
Real Analysis I (MATH 3603) Ordinary Differential Equations (MATH 3303) **	<input type="checkbox"/> <input type="checkbox"/>	Complex Analysis (MATH 3913) ** Discrete Mathematics (MATH 3503) **	<input type="checkbox"/> <input type="checkbox"/>
General education course(s) Courses toward Minor	<input type="checkbox"/> <input type="checkbox"/>	General education course(s) Courses toward Minor	<input type="checkbox"/> <input type="checkbox"/>
Total: 15-16 CHs		Total: 15-16 CHs	
Fourth Year – Fall Semester	✓	Fourth Year – Spring Semester	✓
Numerical Methods (MATH 3703) ** Elective: additional 3000-level MATH, any Physics (2000-level +) or any Computer Science	<input type="checkbox"/> <input type="checkbox"/>	Capstone (MATH 4993)	<input type="checkbox"/>
General education course(s) Courses toward Minor	<input type="checkbox"/> <input type="checkbox"/>	General education course(s) Courses toward Minor	<input type="checkbox"/> <input type="checkbox"/>
Total: 15-16 CHs		Total: 15-16 CHs	

& MINOR in:	Courses	CHs

\_\_\_\_\_  
 Advisor Signature      MM DD YYYY

\_\_\_\_\_  
 Student Signature      MM DD YYYY

\* Specific course offerings may vary dependent upon enrollment and faculty availability; courses may not fall in the exact semester listed above.  
 \*\* This template, of 15-16 CHs per semester, with a 124 CHs total (some dedicated to the Major and some dedicated to General Education), will result in a 4-year degree completion.

\*\*\* Example Math electives. Students must have 15 CHs of Math electives and may choose from 14 different course offerings. These may vary dependent upon student interest, enrollment, and faculty availability

\*\*\*\* Prerequisite Courses (Intermediate Algebra, College Algebra and Trig.) do not count toward the major and some may be waived upon completion of higher level math courses

**GENERAL EDUCATION**

Requirements:	BS	BA
<input checked="" type="checkbox"/> English Composition I (ENGL 1113)		3
<input type="checkbox"/> English Composition II (ENGL 1213)		3
<input type="checkbox"/> Liberal Arts and Sciences Seminar (LAS 1063)		3
<input type="checkbox"/> The Bible and Culture (REL 1003) <i>OR</i> Introduction to World Religions (REL 1513)		3
<input type="checkbox"/> Literature: World (ENGL 2603) <i>OR</i> Western (ENGL 2103) <i>OR</i> British (ENGL 2403, 2413, 2703) <i>OR</i> American (ENGL 2713, 2813)		3
<input type="checkbox"/> Fine Arts (Any ART, FILM, MUS, THRE, DANC or INDP 1013)		3
<input type="checkbox"/> Philosophy/Ethics: PHIL/REL 2213, 2163 <i>OR</i> MGMT 2223 <i>OR</i> PHIL/PHRH 2513 <i>OR</i> PHIL/REL 2703		3
<input type="checkbox"/> American/U.S. History (HIST 1003 or HIST 1103) (International Students must take HIST 1113)		3
<input type="checkbox"/> American Governance (POLS 1113) (International students must take POLS 1013)		3
<input type="checkbox"/> Introduction to Sociology (SOC 2013) <i>OR</i> Introduction to Psychology (PSYC 1113)		3
<input type="checkbox"/> Mathematics (MATH 1503, ECON 2123, PSYC 2303 or a higher -level Mathematics class)		3
<input type="checkbox"/> Methods of Scientific Inquiry (SCI 1003)		3
<input type="checkbox"/> Integrated Science Laboratory (SCI 1041) [ Not required for those who have passed a 2000 level or above lab science ]		1
<input type="checkbox"/> Foreign Language (BS/BFA requires 6 hours; BA requires 12 hours)	6	12
<input type="checkbox"/> Cross-Cultural Studies		
<input type="checkbox"/> Service Learning		
<input type="checkbox"/> Capstone		
<input type="checkbox"/> Public Speaking (PHRH 1103)		3
<input type="checkbox"/> Laboratory Science (BIOL, CHEM, or PHYS)		4
<input type="checkbox"/> International or Diversity (approved courses or study abroad)		3