

**PETREE COLLEGE OF ARTS & SCIENCES**

**Four Year Plan (124 CHs total) \***

**Bachelor of Science (B.S.) in Mathematics Degree - Data Science Track**

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) Linear Algebra (MATH 3003)	<input type="checkbox"/>
English Composition I (ENGL 1113) Liberal Arts Seminar (LAS 1063) General education course(s)	<input type="checkbox"/>	English Composition II (ENGL 1213) General education course(s)	<input type="checkbox"/>
<u>Total: 15-16 CHs</u>		<u>Total: 15-16 CHs</u>	
Second Year – Fall Semester	✓	Second Year – Spring Semester	✓
Probability and Statistics I (MATH 3203) Programming I (CSCI 1514) Multivariate Calculus (MATH 3403)	<input type="checkbox"/>	Discrete Mathematics (MATH 3503) Linear Algebra (MATH 3003)	<input type="checkbox"/>
General education course(s) Courses toward Minor	<input type="checkbox"/>	General education course(s) Courses toward Minor	<input type="checkbox"/>
<u>Total: 15-16 CHs</u>		<u>Total: 15-16 CHs</u>	
Third Year – Fall Semester	✓	Third Year – Spring Semester	✓
Introduction to Data Science (MATH 3213) Probability and Statistics II (MATH 4203)	<input type="checkbox"/>	Data Structures (CSCI 22114) Regression Analysis (MATH 4213)	<input type="checkbox"/>
General education course(s) Courses toward Minor	<input type="checkbox"/>	General education course(s) Courses toward Minor	<input type="checkbox"/>
<u>Total: 15-16 CHs</u>		<u>Total: 15-16 CHs</u>	
Fourth Year – Fall Semester	✓	Fourth Year – Spring Semester	✓
Elective: additional 3000+ level MATH or upper level CSCI w/ advisor approval	<input type="checkbox"/>	Capstone (MATH 4993) Elective: additional 3000+ level MATH or upper level CSCI w/ advisor approval	<input type="checkbox"/>
General education course(s) Courses toward Minor	<input type="checkbox"/>	General education course(s) Courses toward Minor	<input type="checkbox"/>
<u>Total: 15-16 CHs</u>		<u>Total: 15-16 CHs</u>	

& MINOR in:	
Courses	CHs

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

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

**GENERAL EDUCATION**

Requirements:	BS	BA
<input 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) <b>OR</b> Introduction to World Religions (REL 1513)	3	
<input type="checkbox"/> Literature: World (ENGL 2603) <b>OR</b> Western (ENGL 2103) <b>OR</b> British (ENGL 2403, 2413, 2703) <b>OR</b> 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 <b>OR</b> MGMT 2223 <b>OR</b> PHIL/PHRH 2513 <b>OR</b> 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) <b>OR</b> 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	

\* 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.

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