B.S. Mathematics - Statistics Emphasis

The curriculum in the mathematics major is somewhat structured but students can move through the coursework in many ways. This four-year plan illustrates one possible path a student could take to complete a degree in four years. This is not an official document and is not the only way that a mathematics degree can be completed in four years. Current students should refer to their individual degree audit for specific graduation requirements. Courses in bold indicate major-based coursework that is completed in the first year.

First Year

Fall Semester	Units
MATH 253 Calculus & Analytic Geometry I	5
COMPSCI 170, 172, 174, 220, 221, or 222	3
ENGLISH 101 Intro to College Writing and Reading	3
CORE 130 Individual and Society	3
INTRAUNV 104 New Student Seminar	1
Total Credits	15

Spring Semester	Units
MATH 200 Mathematics: Form and Function (S)	1
MATH 254 Calculus & Analytic Geometry II	4
STAT 263 Introduction to R	1
ENGLISH 102 Intro to College Writing, Reading & Research	3
University Requirement Lab Science (GL) course	4-5
CORE 120 or 140 Historical or Global Perspectives	3
Total Credits	16-17

Notes: The math and English courses you will take during your first year will depend on UW System placement exam scores or ACT/SAT sub-scores. This four-year plan reflects the math and English courses most common for students in this major. All students are encouraged to complete placement testing prior to attending Warhawks SOAR (Student Orientation, Advising, and Registration).

Opportunities: Participating in a university-sponsored club, such as the Student Math Association, is strongly encouraged. Involvement in a club or activity will help you develop interpersonal and leadership skills and add to your resume. Additionally, many math majors are ready to tutor after their first year and can be employed through the Student Success Center to tutor students in Quantitative Reasoning, College Algebra, or Calculus I. On-campus tutoring helps students develop technical communication skills.

Second Year

Fall Semester	Units
MATH 255 Calculus & Analytic Geometry III	4
STAT 342 Applied Statistics	3
Degree Requirement Lab Science (GL) course	4-5
CORE 110 World of the Arts	3
PEGNRL 192 Personal Health & Fitness	1
Total Credits	15-16

Spring Semester	Units
MATH 280 Discrete Mathematics	3
MATH 355 Matrices & Linear Algebra	3
Statistics Elective course	3
COMM 110 Intro to Public Speaking	3
Minor course	3
Total Credits	15

Notes: Students are encouraged to start thinking about selecting a minor in the second year. Common minors selected by math majors include: Business Data Analytics, Computer Science, Finance, General Business, and Information Technology. While these minors are common among the statistics emphasis, you can choose from over 100 options that include Art, Japanese Studies, Sociology, and more.

Opportunities: Undergraduate research is not required as part of the mathematics program but is highly recommended for students who have an interest in attending graduate school in the future. Completing a directed research project with a faculty mentor has many benefits: it develops a student's critical thinking and writing abilities, it signals to graduate school programs that a student is prepared for independent research of their own, and it can provide a student with financial support since many undergraduate research opportunities are paid. You can also sign up for MATH 298 or MATH 498 to complete research for elective credits toward graduation.

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Third Year

Fall Semester	Units
MATH 343 Applied Probability Theory (F)	3
STAT 420 Applied Regression Analysis (F)	3
ENGLISH 370 or PWP 372	3
General Education Elective course	3
Minor course	3
Total Credits	**15**

Spring Semester	Units
Statistics Elective course	3
General Education Elective course	3
CORE 390 World of Ideas	3
Minor course	3
Minor course	3
Total Credits	**15**

Opportunities: An internship is not required for the mathematics major but can be a great opportunity for practical experience. An internship is an experiential learning opportunity that provides students with hands-on experience in a potential career field, supervision and coaching from pro-spective employers, and the ability to learn professional norms and behaviors. In addition, completing an internship allows students to differentiate themselves in a competitive job market. Students should begin planning for an internship by the beginning of the junior year and can complete the internship in the junior or senior year. Students also have the option to enroll in MATH 493 to earn credit for their internship which may count as an upper-level technical elective.

Fourth Year

Fall Semester	Units
General Education Elective course	3
U.S. Racial/Ethnic Diversity (DV) course	3
Minor course	3
Minor course	3
Elective course	3
Total Credits	**15**

Spring Semester	Units
Statistics Elective course	3
Minor course	3
Minor course	3
Elective course	3
Elective course	3
Total Credits	**15**

Notes: All students must earn at least 120 credits to earn a bachelor's degree at UWW, and many students have the opportunity to choose additional courses in the fourth year to expand skills, explore interests, or try something new.

Opportunities: LSINDP 399: Career Information in Letters and Sciences is a 1-credit course that focuses on career and graduate school opportunities; identifying skills, strengths, and work values; creating effective job search materials; developing a networking strategy; and planning to a successful post-graduation transition.

Planning for Graduation: Students are encouraged to apply for graduation one full semester prior to their intended graduation date. Information about commencement and the application for graduation are on the Registrar's Office website (http://www.uww.edu/registrar/graduation).

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