Bachelor of Science in Mathematics with a Concentration in Applied Mathematics (Starting with Precalculus)

Required Semester Credit Hours (SCH): 120

The sample four-year degree plan below starts with MATH 1508 (Pre-Calculus). MATH 1508 is a prerequisite and does not count toward the required 120 SCH to complete the degree. Refer to the University Catalog for all degree requirements at catalog.utep.edu. Many core curriculum courses are also offered in the summer (Su). Students are encouraged to register early and check Goldmine for course availability. The flowchart below may not reflect all student schedules; courses can be shifted to different semesters where applicable.

Field of Study:

- **Core & Electives**
- **Required**
- **Electives**
- **Additional Hours**
- **As Approved by Advisor**

Sample Degree Plan

**Freshman Year**
- First Semester
  - **18 SCH**
  - **RWS 1301** Rhetoric and Composition I
  - **PHIL 2306** Ethics
  - **COMM 1302** Business/Professional Comm
  - **UNIV 1301** Seminar/Critical Inquiry
  - **ART 1300** Art Appreciation
  - **MATH 1508** Pre-Calculus
- Second Semester
  - **13 SCH**
  - **RWS 1302** Rhetoric and Composition II
  - **HIST 1301** History of U.S. to 1865
  - **HIST 1302** History of U.S. since 1865

**Sophomore Year**
- First Semester
  - **17 SCH**
  - **PHYS 2320 & 2120** Intro Mechanics & Lab
  - **PHYS 2321 & 2121** Intro Electro & Lab
  - **CHEM 1305 + 1105** General Chemistry I + Lab
  - **CHEM 1306 + 1106** General Chemistry II + Lab
- Second Semester
  - **17 SCH**
  - **MATH 1411** Calculus I
  - **MATH 1511** Calculus II
  - **PSYC 1301** Introduction to Psychology
  - **RWS 1303** Rhetoric and Composition III

**Junior Year**
- First Semester
  - **15 SCH**
  - **PHIL 2306** Ethics
  - **COMM 1302** Business/Professional Comm
  - **POLS 2310** Introduction to Politics
  - **POLS 2311** American Gov. and Politics
- Second Semester
  - **15 SCH**
  - **MATH 2300** Discrete Mathematics
  - **MATH 2313** Calculus III
  - **MATH 2326** Differential Equations
  - **MATH 2335** Applied Analysis I

**Senior Year**
- First Semester
  - **15 SCH**
  - **MATH 4336** Applied Regression Analysis
  - **STAT 4385** Applied Statistics Inference
  - **RWS 3359** Technical Writing

**Catalog Year 2023-2024**

Last Updated: June 2023