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.

Many core curriculum courses are also offered in the summer (Su). Students are encouraged to register early and check Goldmine for course availability.

Refer to the University Catalog for all degree requirements at catalog.utep.edu.

The flowchart below may not reflect all student schedules; courses can be shifted to different semesters where applicable.

Core & Electives

University Core Curriculum*

Freshman Year
First Semester (14 SCH)
- RWS 1301 Rhetoric and Composition I (3SCH) (F)
- ART 1300 Art Appreciation (3SCH) (F)
- MATH 1508 Pre-Calculus (4SCH) (F)

Second Semester (13 SCH)
- RWS 1302 Rhetoric and Composition II (3SCH) (F)
- PSYC 1301 Introduction to Psychology (3SCH) (F)
- UNIV 1301 Seminar/Critical Inquiry (3SCH) (F/Sp)

Sophomore Year
First Semester (17 SCH)
- PHIL 2306 Ethics (3SCH) (F)
- HIST 1301 History of U.S. to 1865 (3SCH) (F)
- CHEM 1305 + 1105 General Chemistry I + Lab (4SCH) (F)

Second Semester (17 SCH)
- COMM 1302 Business/Professional Comm (3SCH) (F/Sp)
- HIST 1302 History of U.S. since 1865 (4SCH) (F)
- CHEM 1306 + 1106 General Chemistry II + Lab (4SCH) (F)

Junior Year
First Semester (15 SCH)
- POLS 2310 Introduction to Politics (3SCH) (F)
- PHYS 2320 & 2120 Intro Mechanics & Lab (3SCH) (F)
- MATH 1411 Calculus I (3SCH) (F)

Second Semester (15 SCH)
- POLS 2311 American Gov. and Politics (3SCH) (F)
- PHYS 2321 & 2121 Intro Electro & Lab (3SCH) (F)
- RWS 1303 Technical Writing (3SCH) (F)

Senior Year
First Semester (15 SCH)
- STAT 3330 Probability (3SCH) (F)
- MATH 1312 Calculus II (3SCH) (F)
- MATH 2313 Calculus III (3SCH) (F)

Second Semester (15 SCH)
- MATH 3325 Principles of Mathematics (3SCH) (F)
- CS 1320 Comp Pro for Science/Engr (3SCH) (F)
- MATH 3323 Matrix Algebra (3SCH) (F)

Field of Study

Applied Mathematics Concentration

Sample Degree Plan

Last Updated: February 2022

Catalog Year 2022-2023

* C or better required.

Arrow indicates a prerequisite.

Color-coded boxes group the course subject.

F/Sp/Su indicates the semesters Fall/Spring/Summer.

Catalog Year 2022-2023

Sample Degree Plan

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