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

Core & Electives

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

Required Semester Credit Hours (SCH): 120

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

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](http://catalog.utep.edu).

**Core Curriculum**

- **Freshman Year**
  - RWS 1301 Rhetoric and Composition I (3SCH)
  - PSYC 1301 Introduction to Psychology (3SCH)
  - PHIL 2306 Ethics (3SCH)
  - MATH 1411 Calculus I (13 SCH)

- **Sophomore Year**
  - HIST 1301 History of the U.S. since 1865 (3SCH)
  - PHYS 2320 & 2120 Intro Mechanics & Lab (3-4 SCH)
  - CHEM 1305 + 1105 General Chemistry I + Lab (3-4 SCH)

- **Junior Year**
  - STAT 3330 Probability (3SCH)
  - MATH 3300 Discrete Mathematics (3SCH)

- **Senior Year**
  - STAT 4385 Applied Regr Analysis Or STAT 4380 Statistics Inference (3SCH)
  - MATH 3336 Applied Analysis II (3SCH)

**Field of Study**

- **Senior Year**
  - MATH 4336 Applied Analysis II (3SCH)
  - MATH 4329 Numerical Analysis (3SCH)

**Sample Degree Plan**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>Freshman Year</td>
<td>RWS 1301</td>
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<tr>
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<td>PSYC 1301</td>
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<td>Sophomore Year</td>
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<td>Senior Year</td>
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<tr>
<td></td>
<td>MATH 4329</td>
<td>3</td>
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</table>

**Notes:**

- F/Sp/Su indicates the semesters Fall/Spring/Summer.
- Color-coded boxes group the course subject.
- Arrow indicates a prerequisite.
- C or better required.
- Additional Hours as Approved by Advisor (as Approved by Advisor)

Last Updated: February 2022