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

Required Semester Credit Hours (SCH): 120

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.

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### University Core Curriculum*

**Freshman Year**
- **First Semester (13 SCH)**
  - MATH 1411: Calculus I (4 SCH) (F/Sp)
  - RWS 1301: Rhetoric and Composition I (3 SCH) (F/Sp)
  - PHYS 2320 & 2120: Intro Mechanics & Lab (4 SCH) (F/Sp)
  - SCI 1301: Inquiry in Math & Science (2 SCH) (F/Sp)
- **Second Semester (13 SCH)**
  - MATH 1312: Calculus II (3 SCH) (F/Sp)
  - PHYS 2321 & 2121: Intro Electro & Lab (4 SCH) (F/Sp)
  - HIST 1301: History of U.S. since 1865 (3 SCH) (F/Sp)
  - PSYC 1301: Introduction to Psychology (3 SCH) (F/Sp)
- **Sophomore Year**
  - **First Semester (17 SCH)**
    - MATH 2313: Calculus III (3 SCH) (F/Sp)
    - RWS 3359: Technical Writing (3 SCH) (Sp)
    - SCI 1308: Program Design & Lab (3 SCH) (F)
  - **Second Semester (18 SCH)**
    - MATH 3325: Principles of Mathematics (3 SCH) (F/Sp)
    - STAT 3330: Probability (3 SCH) (F/Sp)
    - STAT 4329: Numerical Analysis (3 SCH) (Sp)
- **Junior Year**
  - **First Semester (15 SCH)**
    - MATH 3300: Discrete Mathematics (3 SCH) (F/Sp)
    - STAT 4380: Applied Analysis I (3 SCH) (F/Sp)
    - Upper Division Elective as Approved by Advisor (3 SCH) (Sp)
  - **Second Semester (15 SCH)**
    - MATH 4329: Numerical Analysis (3 SCH) (F/Sp)
    - STAT 4385: Applied Regr Analysis or STAT 4329, 4474 (3 SCH) (Sp)
    - Upper Division Elective as Approved by Advisor (3 SCH) (Sp)

### Science Req's

**Freshman Year**
- **First Semester (13 SCH)**
  - CHEM 1305 + 1105: General Chemistry I + Lab (4 SCH) (F/Sp)
  - CS 1301 & CS 1101: Intro to Computer Science & Lab (4 SCH) (F/Sp)
- **Second Semester (13 SCH)**
  - UNIV 1301: Seminar/Critical Inquiry (3 SCH) (F/Sp)
  - PSYC 2306: Ethics (3 SCH) (F/Sp)
  - RWS 1302: Rhetoric and Composition II (3 SCH) (F/Sp)
  - SCI 1308: Program Design & Lab (3 SCH) (F)

**Sophomore Year**
- **First Semester (15 SCH)**
  - ART 1300: Art Appreciation (3 SCH) (F/Sp)
  - POLS 2311: American Gov. and Politics (3 SCH) (F/Sp)
  - CS 1301 & CS 1101: Intro to Computer Science & Lab (4 SCH) (F/Sp)
  - MATH 2300: Discrete Mathematics or MATH 2325 Intro to Higher Mathematics (3 SCH) (F/Sp)
  - STAT 2480: Differential Equations (3 SCH) (F/Sp)
  - Upper Division Elective as Approved by Advisor (3 SCH) (Sp)

**Junior Year**
- **First Semester (15 SCH)**
  - CHEM 1306 + 1106: General Chemistry II + Lab (4 SCH) (F/Sp)
  - STAT 3325: Probability (3 SCH) (F/Sp)
  - Upper Division Elective as Approved by Advisor (3 SCH) (Sp)
  - Upper Division Elective as Approved by Advisor (3 SCH) (Sp)

**Senior Year**
- **First Semester (15 SCH)**
  - MATH 3323, 4326: Applied Analysis I (3 SCH) (F/Sp)
  - Upper Division Elective as Approved by Advisor (3 SCH) (Sp)

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* C or better required.
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Last Updated: February 2022