ENGINEERING EDUCATION B.S.

ACADEMIC ADVISING

Partnering with students to successfully navigate college
Location: Main Hall 208
Phone: 719.255.3260
Website: Academic Advising

Connect With Your Advisor
Current UCCS Students
- Appointments: www.uccs.edu/advising/current-students
Prospective Students: www.uccs.edu/admissions/contact

GENERAL ACADEMIC INFORMATION

Minimum Graduation Requirements
- 128 credit hours
- 2.0 CU cumulative GPA
- Residency: Last 30 credit hours of degree must be completed while registered in the College Engineering & Applied Science at UCCS

Student Responsibilities
Students are required to know and follow:
- All academic policies set forth by the University, College, and academic department in the UCCS Catalog: catalog.uccs.edu
- All course prerequisites designated by the University. Failure to meet course prerequisites may result in an administrative drop of the course from a student’s schedule. See degree audit for course prerequisites within the academic major.

DEGREE REQUIREMENTS

Explore Engineering Education: Bachelor of Science in Engineering Education | Bachelor of Science in Engineering Education (uccs.edu)

<table>
<thead>
<tr>
<th>Major Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>B.S. Engineering Education Core Courses (22-24 hours)</strong></td>
</tr>
<tr>
<td>Course/Area</td>
</tr>
<tr>
<td>MAE 1503</td>
</tr>
<tr>
<td>MAE 2200</td>
</tr>
<tr>
<td>ECE 3610</td>
</tr>
<tr>
<td>Introductory Course</td>
</tr>
<tr>
<td>Engineering Foundations</td>
</tr>
</tbody>
</table>

**Computer Science:**
- ENGR 3300
- AND
- ENGR 4010
- Software Engineering
- AND
- Computer Science Education Seminar
- 6

**Mechanical Eng:**
- ENGR 4510
- AND
- ENGR 4511
- Project Design I
- PLUS
- Mechanical Engineering Seminar (optional)
- 5-6

**Electrical Eng:**
- ENGR 4890
- AND
- ENGR 4899
- Senior Seminar
- AND
- Senior Design Project
- 4

**UTED Courses**
- UTED 1030 Inquiry Approaches and Lesson Plan Design for Secondary Math and Science 3
- UTED 2010 Knowing and Learning in Mathematics and Science 3
- UTED 3020 Classroom Interactions 3
- UTLS 3030 Perspectives on Science and Math 3
- UTLS 3480 Functions and Modeling 3
- UTED 4710 Project-Based Instruction 3
- UTED 4720 Reading in the Content Area 3
- UTED 4730 Apprentice Teaching UCCS Teach and Seminar 12

UCCS Teach Courses (33 hours)
- A grade of "B-" or better must be earned in all UTED courses.
- UTLS 3480 must be completed with a "C" or better.
- UTED courses should be taken in the appropriate semester. See the four-year plan for details.

2023-2024
## General Education and Elective Requirements

### Core Writing Requirement
- **6 hours**
  - ENGL 1310, 1308, or 1305 (Students choosing ENGL 1305 must complete ENGL 1300 first.)
  - TCID 2090
  - PORT 3000 (0 Credits) – Writing Portfolio

### Mathematics
- **21 hours**
  - MATH 1350
  - MATH 1360
  - MATH 2150
  - MATH 2350
  - MATH 3130
  - MATH 3210

**NOTE:** Math courses require a grade of C or better to progress through the Math sequence.

### Basic Science
- **23-24 hours**
  - BIOL 1300/1310 AND BIOL 1350/1360
  - CHEM 1401/1402
  - ENSC 1600
  - GEOL 1010 OR PES 1050
  - PES 1110

### Compass Curriculum
- **6 hours**
  - Gateway
    - Explore – Arts, Humanities and Cultures
      - See Degree Audit
    - Explore – Society, Behavior and Health
      - UTED 1030 (included in UCCS Teach requirements)
    - Explore – Physical and Natural World
      - PES 1110 (included in Basic Science requirements)
  - Navigate
    - See Degree Audit
  - Summit
    - UTED 4730 (included in UCCS Teach requirements)
  - Writing Intensive Courses (WIC)
    - Two courses with one upper-division (3000+ level)
      - UTED 4720 (included in UCCS Teach requirements)
      - ECE 3610 (included in Engineering Core requirements)
  - Inclusiveness
    - MAE 1503 (included in Engineering Core requirements)
  - Sustainability
    - ENSC 1600 (included in Basic Science requirements)

### Open Electives
- **14-17 hours**
  - Complete additional courses to fulfill total minimum hours for the degree program. Courses may be selected from any discipline, but may not include any math courses below MATH 1350. Only 3 credit hours of CS course work numbered below CS 1150 may count towards electives.

### FOUR-YEAR DEGREE PLAN

#### Please note that this is an example degree program and your program may vary. Students are responsible for completing all course prerequisites.

<table>
<thead>
<tr>
<th>Year One</th>
<th>FALL</th>
<th>Hours</th>
<th>SPRING</th>
<th>Hours</th>
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<td>GPS 1010</td>
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<td>MATH 1360</td>
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<td>PES 1110</td>
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<td><strong>TOTAL</strong></td>
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<th>Hours</th>
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<td>ECE 3610 (spring only)</td>
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<td>ENGR Capstone</td>
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<td>GEOL 1010 OR PES 1050</td>
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1 Dependent on ENGR Capstone and GEOL 1010 or PES 1050 choices.