

## ACADEMIC ADVISING

*Partnering with students to successfully navigate college*

**Location:** Main Hall 208

**Phone:** 719.255.3260

**Website:** [Academic Advising](http://www.uccs.edu/academic-advising)

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Current UCCS Students

- Appointments: [www.uccs.edu/advising/current-students](http://www.uccs.edu/advising/current-students)

Prospective Students: [www.uccs.edu/admissions/contact](http://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](http://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 \(uccs.edu\)](http://www.uccs.edu/bachelor-of-science-in-engineering-education)

Major Requirements				
B.S. Engineering Education Core Courses (22-24 hours)	Course/Area	Course Title	Credit Hours	
<ul style="list-style-type: none"> <li>• Requires a minimum of 22-24 credit hours of Engineering course work.</li> <li>• A minimum overall 2.0 GPA must be maintained on all Engineering Core Courses.</li> <li>• Any EAS course that is NOT listed as an Introductory or Capstone course may be used toward the Foundations requirement.</li> <li>• Prerequisites are strictly enforced. Plan course sequences accordingly using open electives to take prerequisites when necessary.</li> <li>• <i>You must be admitted into the College of Engineering in order to take any CS, MAE, ECE, or ENGR coursework.</i></li> </ul>	MAE 1503	Introduction to Engineering Design	3	
	MAE 2200	Materials Engineering	3	
	ECE 3610	Engineering Probability and Statistics	3	
	Introductory Course	<i>Complete one additional introductory course from the following:</i> CS 1120, 1150, ECE 1001, 1021, MAE 1502	3	
	Engineering Foundations	<i>Complete 6 hours of Engineering Foundation courses from the following:</i> CS 1450, 2060, 2160, 3020, ECE 1411, 2205, 2411, 2610, MAE 2103, 2104, 2301	6	
	<b>Engineering Capstone</b> – Complete a minimum of 4 hours of ENGR courses from one of the following options.			
	<b>Computer Science:</b> ENGR 3300 <b>AND</b> ENGR 4010	Software Engineering I <b>AND</b> Computer Science Education Seminar	6	
	<b>Mechanical Eng:</b> ENGR 4510 <b>AND</b> ENGR 4511 <b>Plus (optional)</b> MAE 4000	Engineering Design I <b>AND</b> Engineering Design II <b>PLUS</b> Mechanical and Aerospace Engineering Seminar (optional)	5-6	
	<b>Electrical Eng:</b> ENGR 4890 <b>AND</b> ENGR 4899	Senior Seminar <b>AND</b> Senior Design Project	4	
	<b>UCCS Teach Courses</b> (33 hours)	UTED 1030	Inquiry Approaches and Lesson Plan Design for Secondary Math and Science	3
<ul style="list-style-type: none"> <li>• A grade of "B-" or better must be earned in all UTED courses.</li> <li>• UTLS 3480 must be completed with a "C" or better.</li> <li>• UTED courses should be taken in the appropriate semester. See the four-year plan for details.</li> </ul>	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	

## General Education and Elective Requirements

<b>Core Writing Requirement</b> (6 hours)	<ul style="list-style-type: none"> <li>ENGL 1310, 1308, or 1305 (<i>Students choosing ENGL 1305 must complete ENGL 1300 first.</i>)</li> <li>TCID 2090</li> <li>Writing Portfolio – PORT 3000 (0 credits) or PORT 4000 (1 credit) or alternative – See Degree Audit</li> </ul>																				
<b>Mathematics</b> (21 hours)	<ul style="list-style-type: none"> <li>MATH 1350</li> <li>MATH 1360</li> <li>MATH 2150</li> <li>MATH 2350</li> <li>MATH 3130</li> <li>MATH 3210</li> </ul>																				
<b>NOTE:</b> Math courses require a grade of C or better to progress through the Math sequence.																					
<b>Basic Science</b> (23-24 hours)	<ul style="list-style-type: none"> <li>BIOL 1300/1310 <b>AND</b> BIOL 1350/1360</li> <li>CHEM 1401/1402</li> <li>ENSC 1600</li> <li>GEOL 1010 <b>OR</b> PES 1050</li> <li>PES 1110</li> </ul>																				
<b>Compass Curriculum</b> (6 hours)	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%; text-align: center;">Component</th> <th style="width: 50%; text-align: center;">Course</th> </tr> </thead> <tbody> <tr> <td><b>Gateway</b></td> <td>GPS 1010</td> </tr> <tr> <td><b>Explore – Arts, Humanities and Cultures</b></td> <td>See Degree Audit</td> </tr> <tr> <td><b>Explore – Society, Behavior and Health</b></td> <td>UTED 1030 (included in UCSS Teach requirements)</td> </tr> <tr> <td><b>Explore – Physical and Natural World</b></td> <td>PES 1110 (included in Basic Science requirements)</td> </tr> <tr> <td><b>Navigate</b></td> <td>See Degree Audit</td> </tr> <tr> <td><b>Summit</b></td> <td>UTED 4730 (included in UCSS Teach requirements)</td> </tr> <tr> <td><b>Writing Intensive Courses (WIC)</b> <i>Two courses with one upper-division (3000+ level)</i></td> <td> <ul style="list-style-type: none"> <li>UTED 4720 (included in UCSS Teach requirements)</li> <li>ECE 3610 (included in Engineering Core requirements)</li> </ul> </td> </tr> <tr> <td><b>Inclusiveness</b></td> <td>MAE 1503 (included in Engineering Core requirements)</td> </tr> <tr> <td><b>Sustainability</b></td> <td>ENSC 1600 (included in Basic Science requirements)</td> </tr> </tbody> </table>	Component	Course	<b>Gateway</b>	GPS 1010	<b>Explore – Arts, Humanities and Cultures</b>	See Degree Audit	<b>Explore – Society, Behavior and Health</b>	UTED 1030 (included in UCSS Teach requirements)	<b>Explore – Physical and Natural World</b>	PES 1110 (included in Basic Science requirements)	<b>Navigate</b>	See Degree Audit	<b>Summit</b>	UTED 4730 (included in UCSS Teach requirements)	<b>Writing Intensive Courses (WIC)</b> <i>Two courses with one upper-division (3000+ level)</i>	<ul style="list-style-type: none"> <li>UTED 4720 (included in UCSS Teach requirements)</li> <li>ECE 3610 (included in Engineering Core requirements)</li> </ul>	<b>Inclusiveness</b>	MAE 1503 (included in Engineering Core requirements)	<b>Sustainability</b>	ENSC 1600 (included in Basic Science requirements)
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<ul style="list-style-type: none"> <li>Explore and Navigate courses must be taken in departments other than the major.</li> <li>Writing Intensive, Inclusiveness, and Sustainability courses may count toward other requirements within the degree.</li> </ul>																					
<b>Open Electives</b> (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.**

	✓	FALL		Hours	✓	SPRING		Hours
<b>Year One</b>		ENGL 1310		3		MAE 1503		3
		GPS 1010		3		MATH 1360		4
		MATH 1350		4		PES 1110		4
		Engineering Intro Course		3		Open Elective		3
		UTED 1030		3		Open Elective		3
			<b>TOTAL</b>		16		<b>TOTAL</b>	
<b>Year Two</b>	✓	FALL		Hours	✓	SPRING		Hours
		CHEM 1401		4		ECE 3610 ( <i>spring only</i> )		3
		CHEM 1402		1		MAE 2200		3
		ENSC 1600		3		TCID 2090		3
		MATH 2350		4		UTED 3020		3
		UTED 2010		3		Engineering Foundation Course		3
		Engineering Foundation course		3		Explore - Arts, Humanities and Cultures Course		3
		<b>TOTAL</b>		18		<b>TOTAL</b>		18
<b>Year Three</b>	✓	FALL		Hours	✓	SPRING		Hours
		ENGR Capstone		1-3		ENGR Capstone		3
		GEOL 1010 <b>OR</b> PES 1050		3-4		BIOL 1300		3
		MATH 2150		3		BIOL 1310		1
		UTED 4720		3		MATH 3130		3
		UTLS 3480 ( <i>fall only</i> )		3		UTLS 3030 ( <i>spring only</i> )		3
		Open Elective <sup>1</sup>		1-3		Open Elective ( <i>Navigate</i> )		3
						PORT 3000		0
		<b>TOTAL</b>		17		<b>TOTAL</b>		16
<b>Year Four</b>	✓	FALL		Hours	✓	SPRING		Hours
		BIOL 1350		3		UTED 4730		12
		BIOL 1360		1				
		MATH 3210		3				
		UTED 4710		3				
		Open Elective		5				
		<b>TOTAL</b>		15		<b>TOTAL</b>		12

<sup>1</sup> Dependent on ENGR Capstone and GEOL 1010 or PES 1050 choices.