

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

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 \(uccs.edu\)](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"> • Requires a minimum of 22-24 credit hours of Engineering course work. • A minimum overall 2.0 GPA must be maintained on all Engineering Core Courses. • Any EAS course that is NOT listed as an Introductory or Capstone course may be used toward the Foundations requirement. • Prerequisites are strictly enforced. Plan course sequences accordingly using open electives to take prerequisites when necessary. • <i>You must be admitted into the College of Engineering in order to take any CS, MAE, ECE, or ENGR coursework.</i> 	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, 2411, 2205, 2610, MAE 2103, 2104, 2301	6	
	Engineering Capstone – Complete a minimum of 4 hours of ENGR courses from one of the following options.			
	Computer Science: ENGR 3300 AND ENGR 4010	Software Engineering AND Computer Science Education Seminar	6	
	Mechanical Eng: ENGR 4510 AND ENGR 4511 Plus (optional) MAE 4000	Project Design I AND Project Design II PLUS Mechanical Engineering Seminar (optional)	5-6	
	Electrical Eng: ENGR 4890 AND ENGR 4899	Senior Seminar AND Senior Design Project	4	
	UCCS Teach Courses (33 hours)	UTED 1030	Inquiry Approaches and Lesson Plan Design for Secondary Math and Science	3
<ul style="list-style-type: none"> • 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. 	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

Core Writing Requirement (6 hours)	<ul style="list-style-type: none"> ENGL 1310, 1308, or 1305 (<i>Students choosing ENGL 1305 must complete ENGL 1300 first.</i>) TCID 2090 PORT 3000 (0 Credits) – Writing Portfolio 																				
Mathematics (21 hours)	<ul style="list-style-type: none"> 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)	<ul style="list-style-type: none"> BIOL 1300/1310 AND BIOL 1350/1360 CHEM 1401/1402 ENSC 1600 GEOL 1010 OR PES 1050 PES 1110 																				
Compass Curriculum (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>Gateway</td> <td>GPS 1010</td> </tr> <tr> <td>Explore – Arts, Humanities and Cultures</td> <td>See Degree Audit</td> </tr> <tr> <td>Explore – Society, Behavior and Health</td> <td>UTED 1030 (included in UCSS Teach requirements)</td> </tr> <tr> <td>Explore – Physical and Natural World</td> <td>PES 1110 (included in Basic Science requirements)</td> </tr> <tr> <td>Navigate</td> <td>See Degree Audit</td> </tr> <tr> <td>Summit</td> <td>UTED 4730 (included in UCSS Teach requirements)</td> </tr> <tr> <td>Writing Intensive Courses (WIC) <i>Two courses with one upper-division (3000+ level)</i></td> <td> <ul style="list-style-type: none"> UTED 4720 (included in UCSS Teach requirements) ECE 3610 (included in Engineering Core requirements) </td> </tr> <tr> <td>Inclusiveness</td> <td>MAE 1503 (included in Engineering Core requirements)</td> </tr> <tr> <td>Sustainability</td> <td>ENSC 1600 (included in Basic Science requirements)</td> </tr> </tbody> </table>	Component	Course	Gateway	GPS 1010	Explore – Arts, Humanities and Cultures	See Degree Audit	Explore – Society, Behavior and Health	UTED 1030 (included in UCSS Teach requirements)	Explore – Physical and Natural World	PES 1110 (included in Basic Science requirements)	Navigate	See Degree Audit	Summit	UTED 4730 (included in UCSS Teach requirements)	Writing Intensive Courses (WIC) <i>Two courses with one upper-division (3000+ level)</i>	<ul style="list-style-type: none"> UTED 4720 (included in UCSS 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)
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<ul style="list-style-type: none"> Explore and Navigate courses must be taken outside of the major discipline. Writing Intensive, Inclusiveness, and Sustainability courses may double count towards other requirements in the degree. 																					
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.**

	✓	FALL	Hours	✓	SPRING	Hours
	Year One					
		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
		TOTAL	16		TOTAL	17
Year Two						
		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
		TOTAL	18		TOTAL	18
Year Three						
		ENGR Capstone	1-3		ENGR Capstone	3
		GEOL 1010 OR 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 ¹	1-3		Open Elective (<i>Navigate</i>)	3
					PORT 3000	0
		TOTAL	17		TOTAL	16
Year Four						
		BIOL 1350	3		UTED 4730	12
		BIOL 1360	1			
		MATH 3210	3			
		UTED 4710	3			
		Open Elective	5			
		TOTAL	15		TOTAL	12

¹ Dependent on ENGR Capstone and GEOL 1010 or PES 1050 choices.