

## ACADEMIC ADVISING

### Partnering with students to successfully navigate college

**Location:** Main Hall 208

**Phone:** 719.255.3260

**Website:** [Academic Advising](https://www.uccs.edu/advising)

### Connect With Your Advisor

Current UCCS Students

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

Prospective Students: [www.uccs.edu/admissions/contact](https://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](https://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 Computer Engineering: [Bachelor of Science in Computer Engineering](https://www.uccs.edu/bachelor-of-science-in-computer-engineering) | [College of Engineering and Applied Science \(uccs.edu\)](https://www.uccs.edu/college-of-engineering-and-applied-science)

Major Requirements			
Computer Engineering Major (63 hours)	Course/Area	Course Title	Credit Hours
<ul style="list-style-type: none"> <li>Requires a minimum of 63 credit hours of Core course work, with an additional 10 hours of Technical Electives.</li> <li>Requires a minimum of 46 credit hours of upper-division (3000-4999 level) course work.</li> <li>A minimum GPA of 2.0 must be maintained on all courses taken in Computer Engineering.</li> </ul> <p><b>*NOTE 1:</b> A grade of "C" or better must be earned in courses marked with an asterisk (*).</p> <p><b>**NOTE 2:</b> ECE 1002 may be taken instead of 1001, but it will not fulfill a Writing Intensive course for Compass Curriculum.</p> <p><i>You must be admitted into the College of Engineering in order to take any 2000-level or higher ECE or CS coursework.</i></p>	CS 1150*	Principles of Computer Science	3
	CS 1450*	Data Structures & Algorithms	3
	CS 2060	Programming with C	3
	CS 2080	Programming with UNIX	3
	CS 3060	Object Oriented Programming with C++	3
	CS 3300	Software Engineering	3
	CS 4500	Operating Systems	3
	CS 4720	Design & Analysis of Algorithms	3
	ECE 1001 or ECE 1002**	Intro to Robotics	3
	ECE 1411*	Logic Circuits I	2
	ECE 2205	Circuits and Systems I	4
	ECE 2411*	Logic Circuits II	2
	ECE 2610*	Intro to Signals and Systems	4
	ECE 3210	Electronics I	3
	ECE 3420	Microprocessor Systems Lab	1
	ECE 3430	Intro to Microcomputer Systems	3
	ECE 3440	Microcomputer Systems Lab	1
	ECE 3610	Engineering Probability and Statistics	3
	ECE 4242	Advanced Digital Design Methods	3
	ECE 4330	Embedded System Design	3
	ECE 4480	Computer Architecture & Design	3
	ECE 4891	Senior Seminar	1
	ECE 4899	Senior Design Project	3
Technical Electives (10 hours)	Complete 10 credit hours of unused upper-division ECE courses (3000- or 4000-level) or choose from the list below: CS 3010, 3020, 3160, 3350, 4100, 4220, 4420, 4600, 4700, 4800, 4820, MATH 3130  <b>NOTE:</b> Additional 4000-level courses in CS, MAE, MATH and PES may be accepted with approval prior to taking the course.		10

## 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>PORT 3000 (0 Credits) – Writing Portfolio</li> </ul>	
<b>Mathematics</b> (18 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 3400</li> </ul>	
<b>Basic Science</b> (14 hours)	<ul style="list-style-type: none"> <li>PES 1110</li> <li>PES 1120</li> <li>6 hours from: CHEM 1401, 1402, 1411, 1412, GEOL 1010, 1020, any course with a PES 1110 prerequisite.</li> </ul>	
<b>Humanities/Social Science Electives</b> (15 hours)	See the degree audit for course options. The Gateway course GPS 1010 counts towards Humanities/Social Science Electives.	
<b>Compass Curriculum</b> (0 hours) <ul style="list-style-type: none"> <li>Explore and Navigate courses must be outside major requirements</li> <li>Writing Intensive, Inclusiveness, and Sustainability courses can count towards other requirements within degree</li> </ul>	<b>Component</b>	<b>Course</b>
	<b>Gateway</b>	GPS 1010 (counts towards HUM/SS Electives)
	<b>Explore – Arts, Humanities and Cultures</b>	See Degree Audit (counts towards HUM/SS Electives)
	<b>Explore – Society, Behavior and Health</b>	See Degree Audit (counts towards HUM/SS Electives)
	<b>Explore – Physical and Natural World</b>	PES 1110 (included in Basic Science requirement)
	<b>Navigate</b>	See Degree Audit (can count towards HUM/SS Electives)
	<b>Summit</b>	ECE 4891/4899 (included in Computer Engineering Core requirement)
	<b>Writing Intensive Courses (WIC)</b> <i>Two courses with one upper-division (3000+ level)</i>	<ul style="list-style-type: none"> <li>ECE 3610</li> <li>ECE 1001</li> </ul>
	<b>Inclusiveness</b>	See Degree Audit
	<b>Sustainability</b>	See Degree Audit
<b>Open Electives</b> (2 hours)	Complete 2 hours of open electives from any discipline. <i>May not include MATH 1040, 1050 or 1120.</i>	

## 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.**

Year One	✓	FALL	Hours	✓	SPRING	Hours
		CS 1150	3		CS 1450	3
		ECE 1001 or 1002	3		CS 2060	3
		ENGL 1310	3		MATH 1360	4
		GPS 1010	3		PES 1110	4
		MATH 1350	4		TCID 2090	3
		<b>TOTAL</b>	16		<b>TOTAL</b>	17

Year Two	✓	FALL	Hours	✓	SPRING	Hours
		CS 2080	3		CS 3060	3
		ECE 1411	2		ECE 2205	4
		ECE 2610	4		ECE 2411	2
		MATH 2350	4		MATH 3400	3
		PES 1120	4		Explore – Society, Behavior & Health Course ( <i>Inclusiveness</i> )	3
		<b>TOTAL</b>	17		<b>TOTAL</b>	15

Year Three	✓	FALL	Hours	✓	SPRING	Hours
		ECE 3210	3		CS 3300	3
		ECE 3420	1		ECE 3440	1
		ECE 3430	3		ECE 3610	3
		ECE 4242	3		ECE 4480 or CS 4200	3
		MATH 2150	3		Basic Science Elective	4
		Explore – Arts, Humanities & Cultures Course	3		HUM/SS Elective ( <i>Navigate</i> )	3
		PORT 3000	0			0
		<b>TOTAL</b>	16		<b>TOTAL</b>	17

Year Four	✓	FALL	Hours	✓	SPRING	Hours
		CS 4500	3		ECE 4899 – Senior Design Project	3
		CS 4720	3		Technical Elective	3
		ECE 4330	3		Technical Elective	4
		ECE 4891	1		Basic Science Elective	2
		Technical Elective	3		Open Elective	2
		HUM/SS Elective ( <i>Sustainability</i> )	3			
		<b>TOTAL</b>	16		<b>TOTAL</b>	14