

## ACADEMIC ADVISING

*Partnering with students to successfully navigate college*

**Location:** Main Hall 208

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

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

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## 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 Computer Engineering: [Bachelor of Science in Computer Engineering | College of Engineering and Applied Science \(uccs.edu\)](http://www.uccs.edu/bachelor-of-science-in-computer-engineering)

Major Requirements			
Computer Engineering Major (62 hours)	Course/Area	Course Title	Credit Hours
<ul style="list-style-type: none"> <li>• Requires a minimum of 62 credit hours of Core course work, with an additional 9 hours of Technical Electives.</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 a single 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 CS 1450 or 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 ( <i>fall, spring</i> )	3
	ECE 1411*	Logic Circuits I ( <i>fall, spring</i> )	2
	ECE 1421*	Logic Circuits Laboratory I	1
	ECE 2205	Circuits and Systems I ( <i>spring, summer</i> )	4
	ECE 2411*	Logic Circuits II ( <i>fall, spring</i> )	3
	ECE 2610*	Intro to Signals and Systems ( <i>fall, spring</i> )	4
	ECE 3210	Electronics I ( <i>fall only</i> )	3
	ECE 3420	Microprocessor Systems Lab ( <i>fall only</i> )	1
	ECE 3430	Intro to Microcomputer Systems ( <i>fall only</i> )	3
	ECE 3440	Microcomputer Systems Lab ( <i>spring only</i> )	1
	ECE 4242	Advanced Digital Design Methods ( <i>fall only</i> )	3
	ECE 4330	Embedded System Design ( <i>fall only</i> )	3
ECE 4480	Computer Architecture & Design ( <i>spring only</i> )	3	
ECE 4891	Senior Seminar ( <i>fall, spring</i> )	1	
ECE 4899	Senior Design Project ( <i>fall, spring</i> )	3	
ECE Exit Interview	<i>Complete the ECE Exit Interview with the Chair of the ECE department during the final semester of course work. Contact the ECE department office for more information.</i>		0
<b>ECE or CS Electives</b> (9 hours)	Complete 9 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		9
	<b>NOTE:</b> Additional 4000-level courses in CS, MAE, MATH and PES may be accepted with approval prior to taking the course.		

## 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 or CS 2150</li> <li>MATH 2350</li> <li>MATH 3400</li> <li>ECE 3610</li> </ul>	
<b>Basic Science</b> (12 hours)	<ul style="list-style-type: none"> <li>PES 1110</li> <li>PES 1120</li> <li>PES 1160</li> <li>3 hours from: CHEM 1401, 1402, 1411, 1412, or any additional PES course with a PES 1110 prerequisite.</li> </ul>	
<b>Humanities/Social Science Electives</b> (15 hours)	See degree audit for course options.	
<b>Compass Curriculum</b> (0 hours) <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>Component</b>	<b>Course</b>
	<b>Gateway Program Seminar</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 major requirements)
	<b>Writing Intensive Courses (WIC)</b> <i>Two courses with one upper-division (3000+ level)</i>	<ul style="list-style-type: none"> <li>ECE 1001</li> <li>ECE 3610</li> </ul>
	<b>Inclusiveness</b>	See Degree Audit (can count towards HUM/SS Electives)
<b>Sustainability</b>	See Degree Audit (can count towards HUM/SS Electives)	
<b>Open Electives</b> (3 hours)	Complete 3 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
		ECE 1001 ( <i>Writing Intensive</i> ) or 1002	3		CS 2060	3
		ECE 1411	2		PES 1110	4
		ECE 1421	1		PES 1160	1
		MATH 1350	4		MATH 1360	4
		GPS 1010 ( <i>Hum/SS elective</i> )	3			
		<b>TOTAL</b>	16		<b>TOTAL</b>	15

Year Two	✓	FALL	Hours	✓	SPRING	Hours
			CS 2080	3		CS 3060
		ECE 2411	3		ECE 2205	4
		ECE 2610	4		MATH 3400	3
		MATH 2350	4		PES 1120	4
		ENGL 1310	3		TCID 2090	3
		<b>TOTAL</b>	17		<b>TOTAL</b>	17

Year Three	✓	FALL	Hours	✓	SPRING	Hours
			ECE 3210	3		CS 3300
		ECE 3420	1		ECE 3440	1
		ECE 3430	3		ECE 3610 ( <i>Writing Intensive</i> )	3
		ECE 4242	3		ECE 4480	3
		MATH 2150	3		Basic Science Elective	3
		Explore – Arts, Humanities & Cultures ( <i>Hum/SS elective</i> )	3		Explore – Society, Behavior, and Health ( <i>Hum/SS elective</i> )	3
					PORT 3000	0
		<b>TOTAL</b>	16		<b>TOTAL</b>	16

Year Four	✓	FALL	Hours	✓	SPRING	Hours
			CS 4500	3		ECE 4899 ( <i>Summit Course</i> )
		CS 4720	3		ECE or CS Elective	3
		ECE 4330	3		ECE or CS Elective	3
		ECE 4891 ( <i>Summit Course</i> )	1		HUM/SS Elective ( <i>Inclusiveness</i> )	3
		ECE or CS Elective	3		Open Elective ( <i>Navigate</i> )	3
		HUM/SS Elective ( <i>Sustainability</i> )	3		ECE Exit Interview	0
		<b>TOTAL</b>	16		<b>TOTAL</b>	15