

ACADEMIC ADVISING

Partnering with students to successfully navigate college

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Current UCCS Students

- Appointments: 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
- 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 \(uccs.edu\)](#)

Major Requirements			
Computer Engineering Major (62 hours)	Course/Area	Course Title	Credit Hours
<ul style="list-style-type: none"> • Requires a minimum of 62 credit hours of Core course work, with an additional 9 hours of Technical Electives. • Requires a minimum of 42 credit hours of upper-division (3000-4999 level) course work. • A minimum GPA of 2.0 must be maintained on all courses taken in Computer Engineering. <p>*NOTE 1: A grade of "C" or better must be earned in courses marked with an asterisk (*).</p> <p>**NOTE 2: 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	3
	ECE 1411*	Logic Circuits I	3
	ECE 2205	Circuits and Systems I	4
	ECE 2411*	Logic Circuits II	3
	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 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	
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
ECE or CS Electives (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
	NOTE: 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

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 or CS 2150 MATH 2350 MATH 3400 ECE 3610 	
Basic Science (12 hours)	<ul style="list-style-type: none"> PES 1110 PES 1120 PES 1160 3 hours from: CHEM 1401, 1402, 1411, 1412, or any additional PES course with a PES 1110 prerequisite. 	
Humanities/Social Science Electives (15 hours)	See degree audit for course options.	
Compass Curriculum (0 hours) <ul style="list-style-type: none"> Explore and Navigate courses must be from a department other than the major. Writing Intensive, Inclusiveness, Sustainability and Navigate courses can double count toward other degree requirements. 	Component	Course
	Gateway Program Seminar	GPS 1010 (counts towards HUM/SS Electives)
	Explore – Arts, Humanities and Cultures	See Degree Audit (counts towards HUM/SS Electives)
	Explore – Society, Behavior and Health	See Degree Audit (counts towards HUM/SS Electives)
	Explore – Physical and Natural World	PES 1110 (included in Basic Science requirement)
	Navigate	See Degree Audit (can count towards HUM/SS Electives)
	Summit	ECE 4891/4899 (included in major requirements)
	Writing Intensive Courses (WIC) <i>Two courses with one upper-division (3000+ level)</i>	<ul style="list-style-type: none"> ECE 1001 ECE 3610
	Inclusiveness	See Degree Audit (can count towards HUM/SS Electives)
Sustainability	See Degree Audit (can count towards HUM/SS Electives)	
Open Electives (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	3		MATH 1360	4
		MATH 1350	4		PES 1110	4
		GPS 1010 (<i>Hum/SS elective</i>)	3		PES 1160	1
		TOTAL	16		TOTAL	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
		TOTAL	17		TOTAL	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
		TOTAL	16		TOTAL	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
		TOTAL	16		TOTAL	15