

ACADEMIC ADVISING

Partnering with students to successfully navigate college

Location: Main Hall 208

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

- 120 credit hours
- 45 upper-division credit hours (3000-4999 level)
- 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 Science: [Computer Science Home](https://www.uccs.edu/computer-science) | [College of Engineering and Applied Science \(uccs.edu\)](https://www.uccs.edu/college-of-engineering-and-applied-science)

Computer Science Requirements			
Computer Science Courses (40 hours)	Course/Area	Course Title	Credit Hours
<ul style="list-style-type: none"> • Requires a minimum of 36 credit hours of CS course work. • Requires a minimum of 30 credit hours of upper-division (3000-4999 level) CS course work. • All CS courses must be completed with a grade of "C" or better. <p><i>You must be admitted into the College of Engineering to take any 2000-level or higher CS coursework.</i></p>	CS 1150	Principles of Computer Science	3
	CS 1450	Data Structures & Algorithms	3
	CS 2060	Programming in C	3
	CS 2080	Programming with UNIX	3
	CS 2160	Computer Org. & Assembly Language	3
	CS 3050	Social & Ethical Implications of Computing	1
	CS 3020, CS 3060, OR CS 3080	Adv Object Tech Using C#/.NET.C# Object Oriented Programming in C++ Python Programming	3
	CS 3160	Concepts of Programming Languages	3
	CS 3300	Software Engineering	3
	CS 4200	Computer Architecture I	3
	CS 4220	Computer Networks	3
	CS 4300	Advanced Software Engineering	3
	CS 4500	Operating Systems I	3
	CS 4720	Design & Analysis of Algorithms	3
Specialty Area (12 hours)	Advanced Software Engineering	Complete 12 credit hours from the following courses: CS 3110, 4310, 4320, 4340, 4350	12
<ul style="list-style-type: none"> • Students are required to complete one of the specialty areas listed. • Some specialty areas require additional advanced mathematics courses. Students should carefully check prerequisites when deciding on a track. 	Artificial Intelligence and Machine Learning	Complete 12 credit hours from the following courses: CS 3880, 4435, 4440, 4460, 4710, 4730, 4820, 4850, 4860, 4870, 4890	12
	Computer Systems and Networking	Complete 12 credit hours from the following courses: CS 3910, 4410, 4420, 4540, 4550, 4740, ECE 4330	12
	Cybersecurity	Complete 12 credit hours from the following courses: CS 2910, 3910, 4910, 4920, 4930, 4940, 4950, 4970, 4980	12
	General Computer Science	Complete 12 credit hours from upper-division (3000+ level) CS courses, with at least 6 hours at the 4000-level.	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>) OR ENGL 1410 TCID 2090 PORT 3000 (0 Credits) – Writing Portfolio 	
Mathematics (17 hours)	<ul style="list-style-type: none"> MATH 1350 MATH 1360 CS 2020 OR MATH 3810 OR ECE 3610 CS 2150 OR MATH 2150 CS 2300 OR MATH 3130 	
Basic Science (9-10 hours)	Complete all of the Basic Science sequence courses listed below for either Chemistry or Physics. <ul style="list-style-type: none"> Chemistry - CHEM 1401, 1402, 1411, 1412 (10 hours) Physics - PES 1110, PES 1120, and PES 1160 (9 hours) 	
Compass Curriculum (12 hours) <ul style="list-style-type: none"> Explore and Navigate courses must be outside major requirements Writing Intensive, Inclusiveness, and Sustainability courses can count towards other requirements within degree 	Component	Course
	Gateway	GPS 1010
	Explore – Arts, Humanities and Cultures	See Degree Audit
	Explore – Society, Behavior and Health	See Degree Audit
	Explore – Physical and Natural World	CHEM 1401, or PES 1110 (included in Basic Science requirement)
	Navigate	See Degree Audit
	Summit	CS 4300 (included in major requirements)
	Writing Intensive Courses (WIC) <i>Two courses with one upper-division (3000+ level)</i>	<ul style="list-style-type: none"> CS 3050 (included in major requirements) See Degree Audit
	Inclusiveness	See Degree Audit
	Sustainability	See Degree Audit
General Electives (24 hours)	Complete general electives to fulfill the total hours requirement for the degree program. The chosen course(s) can be selected from any discipline but may not include any math course 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.**

Year One	✓	FALL	Hours	✓	SPRING	Hours
		CS 1150	3		CS 1450	3
		ENGL 1310	3		CS 2060	3
		GPS 1010	3		MATH 1360	4
		MATH 1350	4		Basic Science Sequence Course	5
		Explore – Society, Behavior & Health Course	3			
		TOTAL	16		TOTAL	15

Year Two	✓	FALL	Hours	✓	SPRING	Hours
		CS 2080	23		CS 2150 OR MATH 2150	3
		CS 2160	3		CS 3020, CS 3060 OR CS 3080	3
		CS 2300 OR MATH 3130	3		CS 3050	1
		TCID 2090	3		Explore – Arts, Humanities & Cultures Course	3
		Basic Science Sequence Course	4		Inclusiveness Course	3
					General Elective	3
		TOTAL	16		TOTAL	16

Year Three	✓	FALL	Hours	✓	SPRING	Hours
		CS 2020 OR MATH 3810 OR ECE 3610	3		CS 3300	3
		CS 3160	3		CS 4200	3
		CS 4220	3		CS Specialty Area Course	3
		CS 4720	3		Navigate Course	3
		Sustainability Course	3		Writing Intensive Course (WIC)	3
					PORT 3000	0
		TOTAL	15		TOTAL	15

Year Four	✓	FALL	Hours	✓	SPRING	Hours
		CS 4300	3		CS Specialty Area Course	3
		CS 4500	3		CS Specialty Area Course	3
		CS Specialty Area Course	3		General Elective	3
		General Elective	3		General Elective	3
			3			
		TOTAL	15		TOTAL	12