

ACADEMIC ADVISING

Partnering with students to successfully navigate college

Location: Main Hall 208

Phone: 719.255.3260

Website: www.uccs.edu/advising

Connect With Your Advisor

Current UCCS Students

- Appointments: www.uccs.edu/advising/current-students
- Drop In Advising: Most Wednesdays, 1:00pm - 4:00pm

Prospective Students: www.uccs.edu/admissions/contact

GENERAL ACADEMIC INFORMATION

Minimum Graduation Requirements

1. 128 credit hours
2. 2.0 CU cumulative GPA
3. 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:

1. All academic policies set forth by the University, College, and academic department in the UCCS Catalog: catalog.uccs.edu
2. 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.

MAJOR INFORMATION

Computer science is the study of processes that interact with data and that can be represented as data in the form of programs. It enables the use of algorithms to manipulate, store, and communicate digital information. It encompasses both the study of theoretical algorithms and the practical problems involved in implementing them through computer hardware and software. The study of computer science has many branches, including artificial intelligence, software engineering, programming, and computer graphics.

Computer Science Requirements			
Computer Science Courses (48 hours)	Course/Area	Course Title	Credit Hours
<p><i>You must be admitted into the College of Engineering in order to take any CS coursework.</i></p> <p><i>All CS course work requires a grade of "C" or better.</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	2
	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 4100	Compiler Design	3
	CS 4200	Computer Architecture I	3
	CS 4500	Operating Systems I	3
	CS 4700	Computability, Automata & Formal Languages	3
	CS 4720	Design & Analysis of Algorithms	3
	CS Electives	Complete 9 hours of CS courses numbered between 4000-5999 that are NOT being used for the CS core	9
<p>Technical Electives (9 hours)</p>	<p><i>Complete 9 hours of Technical Electives from the following options that are not being used to fulfill another requirement:</i></p> <ul style="list-style-type: none"> • any 3000+ level Computer Science course • any 3000+ level Game Design & Development course • any 2000+ level Electrical Engineering course (except ECE 2400) • any 3100+ level Mathematics course (except MATH 4650) • additional courses from the Basic Science list or additional courses with prerequisites from the Basic Science list • any 3000+ level College of Business course (except BUAD 3010, 3020, or 3030) 		

General Education and Elective Requirements																					
Composition (6 hours)	<ol style="list-style-type: none"> ENGL 1310 ENGL 1410, TCID 2080, OR TCID 2090 PORT 3000 (0 Credits) – Writing Portfolio 																				
Mathematics (17 hours)	<ol style="list-style-type: none"> MATH 1350 MATH 1360 CS 2020 OR MATH 3810 CS 2150 OR MATH 2150 CS 2300 OR MATH 3130 																				
Basic Science (8-10 hours)	<ul style="list-style-type: none"> Biology - BIOL 1300, BIOL 1310, BIOL 1350 and BIOL 1360 (8 Hours) Chemistry - CHEM 1401, 1402, 1411, 1412 (10 hours) Physics - PES 1110, PES 1120, and PES 1160 (9 hours) 																				
<ul style="list-style-type: none"> Complete one Basic Science sequence from those listed 																					
Compass Curriculum (12-21 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 	<table border="1"> <thead> <tr> <th>Component</th> <th>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>See Degree Audit</td> </tr> <tr> <td>Explore – Physical and Natural World</td> <td>BIOL 1350, CHEM 1401, or PES 1110 (included in Basic Science requirement)</td> </tr> <tr> <td>Navigate</td> <td>See Degree Audit</td> </tr> <tr> <td>Summit</td> <td>CS 4100 (included in major requirements)</td> </tr> <tr> <td>Writing Intensive Courses (WIC) <i>Two courses with one upper-division (3000+ level)</i></td> <td> <ol style="list-style-type: none"> CS 3050 (included in major requirements) See Degree Audit </td> </tr> <tr> <td>Inclusiveness</td> <td>See Degree Audit</td> </tr> <tr> <td>Sustainability</td> <td>See Degree Audit</td> </tr> </tbody> </table>	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	BIOL 1350, CHEM 1401, or PES 1110 (included in Basic Science requirement)	Navigate	See Degree Audit	Summit	CS 4100 (included in major requirements)	Writing Intensive Courses (WIC) <i>Two courses with one upper-division (3000+ level)</i>	<ol style="list-style-type: none"> CS 3050 (included in major requirements) See Degree Audit 	Inclusiveness	See Degree Audit	Sustainability	See Degree Audit
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Sustainability	See Degree Audit																				
General Electives (17-28 hours)	<i>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.</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
		ENGL 1310	3		CS 2060	3
		GPS 1010	3		MATH 1360	4
		MATH 1350	4		Basic Science Sequence Courses	4
		Explore – Society, Behavior & Health Course	3		Explore – Arts, Humanities & Cultures Course	3
		TOTAL	16		TOTAL	17

Year Two	✓	FALL	Hours	✓	SPRING	Hours
			CS 2080	2		CS 2150 OR MATH 2150
		CS 2160	3		CS 3020, CS 3060 OR CS 3080	3
		CS 2300 OR MATH 3130	3		CS 3050	1
		ENGL 1410, TCID 2080, OR TCID 2090	3		Inclusiveness Course	3
		Basic Science Sequence Courses	4		General Electives	6
		TOTAL	16		TOTAL	16

Year Three	✓	FALL	Hours	✓	SPRING	Hours
			CS 3160	3		CS 2020 OR MATH 3810
		CS 4720	3		CS 3300	3
		Navigate Course	3		CS 4200	3
		Technical Elective	3		CS 4000+ Computer Science Elective	3
		Sustainability Course	3		Writing Intensive Course (WIC)	3
		General Elective	3		PORT 3000	0
		TOTAL	18		TOTAL	15

Year Four	✓	FALL	Hours	✓	SPRING	Hours
			CS 4500	3		CS 4100 (Spring Only)
		CS 4700	3		CS 4000+ Computer Science Elective	3
		CS 4000+ Computer Science Elective	3		Technical Elective	3
		Technical Elective	3		General Electives	7
		General Elective	3			
		TOTAL	15		TOTAL	16