COMPUTER SCIENCE B.S.



ACADEMIC ADVISING

Partnering with students to successfully navigate college

Location: Main Hall 208

Phone: 719.255.3260

Website: Academic Advising

Connect With Your Advisor

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
- 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: <u>catalog.uccs.edu</u>
- 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 | College of Engineering and Applied Science (uccs.edu)

Computer Science Requirements						
Computer Science Courses	Course/Area	Course Title	Credit Hours			
(40 hours)	CS 1150	Principles of Computer Science	3			
	CS 1450	Data Structures & Algorithms	3			
You must be admitted into the	CS 2060	Programming in C	3			
College of Engineering in order to take any CS coursework.	CS 2080	Programming with UNIX	3			
take any CS coursework.	CS 2160	Computer Org. & Assembly Language	3			
All CS course work requires a grade	CS 3050	Social & Ethical Implications of Computing	1			
of "C" or better.	CS 3020,	Adv Object Tech Using C#/.NET.C#	3			
	CS 3060,	Object Oriented Programming in C++				
	OR					
	CS 3080	Python Programming				
	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	Advanced	Complete 12 credit hours from the following courses:	12			
(12 hours)	Software	CS 3110, 4310, 4320, 4340, 4350				
	Engineering					
Students are required to complete	Artificial	Complete 12 credit hours from the following courses:	12			
one of the specialty areas listed.	Intelligence and Machine	CS 3880, 4435, 4440, 4460, 4710, 4730, 4820, 4850, 4860, 4870, 4890				
Some specialty areas require	Learning					
Some specialty areas require additional advanced mathematics	Computer	Complete 12 credit hours from the following courses:	12			
courses. Students should carefully	Systems and	CS 3910, 4410, 4420, 4540, 4550, 4740, ECE 4330				
check prerequisites when deciding	Networking					
on a track.	Cybersecurity	Complete 12 credit hours from the following courses:	12			
		CS 2910, 3910, 4910, 4920, 4930, 4940, 4950, 4970, 4980				
	General	Complete 12 credit hours from upper-division (3000+ level) CS courses, with at	12			
	Computer	least 6 hours at the 4000-level.				
	Science					

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General Education and Elective Requirements						
Core Writing Requirement (6 hours)	 ENGL 1310, 1308, or 1305 (Students choosing EN TCID 2090 PORT 3000 (0 Credits) – Writing Portfolio 	IGL 1305 must complete ENGL 1300 first.)				
Mathematics (17 hours)	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 one Basic Science sequence from those listed	 Chemistry - CHEM 1401, 1402, 1411, 1412 (10 hours) Physics - PES 1110, PES 1120, and PES 1160 (9 hours) 					
Compass Curriculum	Component	Course				
(12 hours)	Gateway	GPS 1010				
 Explore and Navigate courses must be 	Explore – Arts, Humanities and Cultures	See Degree Audit				
outside major requirements	Explore – Society, Behavior and Health	See Degree Audit				
 Writing Intensive, Inclusiveness, and 	Explore – Physical and Natural World	CHEM 1401, or PES 1110 (included in Basic Science requirement)				
Sustainability courses can count	Navigate	See Degree Audit				
towards other requirements within	Summit	CS 4300 (included in major requirements)				
•	Writing Intensive Courses (WIC)	CS 3050 (included in major requirements)				
degree	Two courses with one upper-division (3000+ level)	See Degree Audit				
	Inclusiveness	See Degree Audit				
	Sustainability	See Degree Audit				
General Electives	Complete general electives to fulfill the total hours requirement for the degree program. The chosen course(s) can be					
(24 hours)	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 Ele	ectives.				

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.

	1	FALL	Hours	1	SPRING	Hours
a		CS 1150	3		CS 1450	3
Ö		ENGL 1310	3		CS 2060	3
ŗ		GPS 1010	3		MATH 1360	4
ea		MATH 1350	4		Basic Science Sequence Course	5
>		Explore – Society, Behavior & Health Course	3			
		TOTAL	16		TOTAL	15

	1	FALL	Hours	1	SPRING	Hours
		CS 2080	23		CS 2150 OR MATH 2150	3
9		CS 2160	3		CS 3020, CS 3060 OR CS 3080	3
Year Tw		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

	1	FALL	Hours	1	SPRING	Hours
		CS 2020 OR MATH 3810 OR ECE 3610	3		CS 3300	3
ee		CS 3160	3		CS 4200	3
غ ا		CS 4220	3		CS Specialty Area Course	3
Year		CS 4720	3		Navigate Course	3
		Sustainability Course	3		Writing Intensive Course (WIC)	3
					PORT 3000	0
		TOTAL	15		TOTAL	15

	J	FALL	Hours	J	SPRING	Hours
=		CS 4300	3		CS Specialty Area Course	3
no		CS 4500	3		CS Specialty Area Course	3
L.		CS Specialty Area Course	3		General Elective	3
ea		General Elective	3		General Elective	3
>		General Elective	3			
		TOTAL	15		TOTAL	12