COMPUTER SCIENCE B.A.

UCCS | University of Colorado Colorado Springs

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
- 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 | College of Engineering and Applied Science (uccs.edu)

Computer Science Requirements

Computer Science Core Courses (36 hours)	Course/Area	Course Title	Credit Hours
Requires a minimum of 36 credit hours of core CS course work, with an additional 18 hours in a required Track.		**Computer Science Foundation Courses**	
	CS 1120*	Computational Thinking with Beginning Programming	3
	CS 1150	Principles of Computer Science	3
	CS 1450	Data Structures & Algorithms	3
Requires a minimum of 21 credit hours of upper-division (3000-4999 level) CS course work.	CS 2060	Programming with C	3
	CS 2080	Programming with UNIX	3
	CS 2160	Computer Organization & Assembly Language Programming	3
All CS courses must be completed with a grade of "C" or better.	CS 3020, CS 3060, **or** CS 3080	Advanced Object Technology Using C#/.NET Object Oriented Programming in C++ Python Programming	3
*NOTE: Students choosing the Game Development track should take GDD 1100 instead of CS 1120.	CS 3160	Concepts of Programming Languages	3
	CS 3300	Introduction to Software Engineering	3
	CS 4300	Advanced Software Engineering *(Capstone course)*	3
You must be admitted into the College of Engineering to take CS 1450 or any 2000-level or higher CS coursework.	Computer Science Core Electives	*Complete 2 courses from the list below.* CS 4200, 4500, 4720	6

Computer Science Track (18 hours)	Course/Area	Course Title	Credit Hours
Students are required to complete one of the tracks listed.	Artificial Intelligence & Machine Learning	*Complete 6 courses from the list below.* CS 3820, 3840, 3850, 4435, 4440, 4435, 4460, 4710, 4730, 4820, 4860, 4870, 4890	18
	Cybersecurity	*Complete 6 courses from the list below.* CS 2910, 3910, 3920, 4220, 4910, 4915, 4920, 4930, 4940, 4950, 4980, 4985	18
Some tracks require additional advanced mathematics courses. Students should carefully check prerequisites when deciding on a track.	Game Development	*Complete all of the courses listed below:* CS 3350, GDD 2150, 3100, 3200, 4100, 4500	18
	General	*Complete 18 hours of **UNUSED** CS upper-division (3000+ level) courses in consultation with your faculty advisor. At least 4 of the courses must be 4000+ level.* **NOTE:** *Internships, Independent Studies, and similar courses cannot be taken for this requirement.*	18

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General Education and Elective Requirements

Core Writing Requirement (6 hours)	• ENGL 1310 ENGL 1310, 1308, or 1305 *(Students choosing ENGL 1305 must complete ENGL 1300 first.)* • TCID 2090 • PORT 3000 (0 Credits) – Writing Portfolio
Mathematics (13 hours)	• MATH 1040 **or** MATH 1350 • CS 2020 **or** MATH 3810 • CS 2150 **or** MATH 2150 • CS 2300 **or** MATH 3130

Compass Curriculum (12 hours) • 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	See Degree Audit
	Navigate	See Degree Audit
	Summit	CS 4300 (included in major requirements)
	Writing Intensive Courses (WIC) *Two courses with one upper-division (3000+ level)*	See Degree Audit
	Inclusiveness	See Degree Audit
	Sustainability	See Degree Audit
General Electives (35 hours)	Complete 35 hours of open electives to fulfill the total and upper-division hours required for the degree program.	

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.**

	√	FALL	Hours	√	SPRING	Hours
Year One		CS 1120	3		CS 1150	3
		ENGL 1310	3		TCID 2090	3
		GPS 1010	3		Explore – Arts, Humanities & Cultures course	3
		MATH 1040 **or** MATH 1350	4		Explore – Physical and Natural World course	3
		Explore – Society, Behavior & Health course	3		General Elective	4
		TOTAL	16		**TOTAL**	16

	√	FALL	Hours	√	SPRING	Hours
Year Two		CS 1450	3		CS 2060	3
		CS 2020 **or** MATH 3810	3		CS 2150 **or** MATH 2150	3
		General Elective	3		CS 2300 **or** MATH 3130	3
		General Elective	3		Track Course	3
		General Elective	4		General Elective (*Writing Intensive*)	3
		TOTAL	16		**TOTAL**	15

	√	FALL	Hours	√	SPRING	Hours
Year Three		CS 2080	3		CS 3160	3
		CS 3020, CS 3060 **or** CS 3080	3		CS 3300	3
		CS 2160	3		Upper-Division (UD) Track Course	3
		Track Course	3		UD CS Core Elective	3
		General Elective	3		UD General Elective (*Inclusiveness*)	3
					PORT 3000	0
		TOTAL	15		**TOTAL**	15

	√	FALL	Hours	√	SPRING	Hours
Year Four		UD CS Core Elective	3		CS 4300	3
		UD Track Course	3		UD Track Course	3
		UD Track Course	3		UD General Elective (*Sustainability*)	3
		UD General Elective	3		UD General Elective (*UD Writing Intensive*)	3
		UD General Elective (*Navigate*)	3			
		TOTAL	15		**TOTAL**	12