COMPUTER SCIENCE B.A.

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)

- Requires a minimum of 36 credit hours of CS course work, with an additional 18 hours in a required Track.
- 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.

***NOTE:** Students choosing the Game Development track should take GDD 1100 instead of CS 1120.

You must be admitted into the College of Engineering to take any 2000-level or higher CS coursework.

Course/Area	Course Title	Credit Hours
	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
CS 2060	Programming with C	3
CS 2080	Programming with UNIX	3
CS 2160	Computer Organization & Assembly Language Programming	3
CS 3020, CS 3060, **OR** CS 3080	Advanced Object Technology Using C#/.NET Object Oriented Programming in C++ Python Programming	3
CS 3160	Concepts of Programming Languages	3
CS 3300	Introduction to Software Engineering	3
CS 4300	Advanced Software Engineering *(Capstone course)*	3
Computer Science Core Electives	*Complete 2 courses from the list below:* CS 4200, 4500, 4720	6

Computer Science Track
(18 hours)

- Students are required to complete one of the tracks listed.
- Some tracks require additional advanced mathematics courses. Students should carefully check prerequisites when deciding on a track.

Artificial Intelligence & Machine Learning	*Complete 6 courses from the list below.* CS 3880, 4435, 4440, 4460, 4710, 4730, 4820, 4850, 4860, 4870, 4890	18
Cybersecurity	*Complete 6 courses from the list below.* CS 2910, 3910, 4910, 4920, 4930, 4940, 4950, 4980	18
Game Development	*Complete the 3 required courses listed below:* CS 3350, GDD 2150, 3200 **and** *3 courses from the following:* GDD 3100, 4100, 4400, 4500	18
General	*Complete 6* **UNUSED** *CS courses in consultation with your faculty advisor. Only two courses can be below 4000-level.*	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 2150 • CS 2020 • CS 2300

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	3
		TOTAL	16		**TOTAL**	15

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

	√	FALL	Hours	√	SPRING	Hours
Year Three		CS 3020, CS 3060, **OR** CS 3080	3		CS 3160	3
		CS 2160	3		CS 3300	3
		Track Course	3		UD Track Course	3
		CS 2080	3		UD CS Core Elective	3
		Upper-Division (UD) General Elective	3		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	3
		General Elective (*Sustainability*)	3		UD General Elective (*UD Writing Intensive*)	3
		UD General Elective *(Navigate)*	3		General Elective	2
		TOTAL	15		**TOTAL**	14