

ACADEMIC ADVISING

Partnering with students to successfully navigate college

Location: Main Hall 208

Phone: 719.255.3260

Website: [Academic Advising](http://www.uccs.edu/academic-advising)

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- Appointments: www.uccs.edu/advising/current-students

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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](http://www.uccs.edu/computer-science) | [College of Engineering and Applied Science \(uccs.edu\)](http://www.uccs.edu/college-of-engineering-and-applied-science)

Computer Science Requirements			
Computer Science Core Courses (36 hours)	Course/Area	Course Title	Credit Hours
<ul style="list-style-type: none"> • Requires a minimum of 36 credit hours of core CS course work, with an additional 18 hours in a required Track. • Requires a minimum of 21 credit hours of upper-division (3000-4999 level) CS course work. • All CS Core and Mathematics courses must be completed with a grade of "C" or better. <p>*NOTE: Students choosing the Game Development track should take GDD 1100 instead of CS 1120.</p> <p><i>You must be admitted into the College of Engineering to take CS 1450 or any 2000-level or higher CS coursework.</i></p>	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 (<i>Capstone course</i>)	3
	Computer Science Core Electives	<i>Complete 2 courses from the list below.</i> CS 4200, 4500, 4720	6
	Computer Science Track (18 hours) <ul style="list-style-type: none"> • 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	<i>Complete 6 courses from the list below.</i> CS 3820, 3840, 3850, 4410, 4435, 4440, 4460, 4710, 4730, 4820, 4860, 4870, 4885, 4890
Cybersecurity		<i>Complete 6 courses from the list below.</i> CS 2910, 3910, 3920, 4220, 4910, 4915, 4920, 4930, 4940, 4950, 4980, 4985	18
Game Development		<i>Complete all of the courses listed below:</i> CS 3350; GDD 2150, 3100, 3200, 4100, 4500	18
General		<i>Complete 18 credit hours of UNUSED upper-division (3000+ level) CS courses in consultation with your faculty advisor. At least 12 hours must be 4000-level or higher.</i> NOTE: Internships, Independent Studies, and similar courses cannot be taken for this requirement.	18

General Education and Elective Requirements

Core Writing Requirement (6 hours)	<ul style="list-style-type: none"> ENGL 1310 ENGL 1310, 1308, or 1305 (<i>Students choosing ENGL 1305 must complete ENGL 1300 first.</i>) or ENGL 1410 TCID 2090 Writing Portfolio – PORT 3000 (0 credits) or PORT 4000 (1 credit) or alternative – See Degree Audit 	
Mathematics (13 hours)	<ul style="list-style-type: none"> MATH 1040 or MATH 1350 CS 2020 or MATH 3810 CS 2150 or MATH 2150 CS 2300 or MATH 3130 	
Compass Curriculum (12 hours)	Component	Course
<ul style="list-style-type: none"> Explore and Navigate courses must be taken in departments other than the major. Writing Intensive, Inclusiveness, and Sustainability courses may count toward other requirements within the degree. 	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) <i>Two courses with one upper-division (3000+ level)</i>	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.**

Year One	✓	FALL	Hours	✓	SPRING	Hours
			CS 1120	3		CS 1150
		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

Year Two	✓	FALL	Hours	✓	SPRING	Hours
			CS 1450	3		CS 2060
		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 (<i>Writing Intensive</i>)	3
		TOTAL	16		TOTAL	15

Year Three	✓	FALL	Hours	✓	SPRING	Hours
			CS 2080	3		CS 3160
		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 (<i>Inclusiveness</i>)	3
					PORT 3000	0
		TOTAL	15		TOTAL	15

Year Four	✓	FALL	Hours	✓	SPRING	Hours
			UD CS Core Elective	3		CS 4300
		UD Track Course	3		UD Track Course	3
		UD Track Course	3		UD General Elective (<i>Sustainability</i>)	3
		UD General Elective	3		UD General Elective (<i>UD Writing Intensive</i>)	3
		UD General Elective (<i>Navigate</i>)	3			
		TOTAL	15		TOTAL	12