

ACADEMIC ADVISING

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

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

GENERAL ACADEMIC INFORMATION

Minimum Graduation Requirements

- 125 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)

Major Requirements			
<p>Computer Science Core Courses (49 hours)</p> <ul style="list-style-type: none"> • Requires a minimum of 43 credit hours of CS course work, with an additional 6 hours of Professional Electives. • Requires a minimum of 34 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><i>You must be admitted into the College of Engineering in order to take CS 1450 or any 2000-level or higher CS coursework.</i></p>	Complete all of the following courses:		
	CS 1150	Principles of Computer Science	3
	CS 1450	Data Structures & Algorithms	3
	CS 2060	Programming in C	3
	CS 2080	Programming with UNIX	3
	CS 2160	Computer Org. & Assembly Language	3
	CS 3050	Social & Ethical Implications of Computing	1
	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	Software Engineering	3
	CS 4200	Computer Architecture I	3
	CS 4220	Computer Networks	3
	CS 4420	Database Systems I	3
	CS 4500	Operating Systems I	3
	CS 4720	Design & Analysis of Algorithms	3
CS 4910	Introduction to Computer Security	3	
Computer Science Professional Electives	<i>Complete 6 hours of upper-division (3000+ level) Professional Electives. See degree audit for course options.</i>	6	
<p>BI Innovation Core (24 hours).</p>	INOV 1000 or INOV 1001	Introduction to Entrepreneurship or Social Entrepreneurship	3
	INOV 1010 or INOV 1011	The Innovation Process or Social Innovation	3
	INOV 2010	Innovation Team: Analyze and Report	3
	INOV 2100	Technical Writing, Proposals, and Presentations	3
	INOV 2500	Business Law and Innovation	3
	INOV 3010	Innovation Team: Research and Execute	3
	INOV 4010	Innovation Team: Design and Lead	3
	INOV 4500	Entrepreneurship and Strategy	3
<p>BI Cross-Discipline Core (15 hours)</p>	<p><i>Complete one of the Cross-Discipline Cores listed below. Each Cross-Discipline Core consists of 15 credit hours. See the degree audit or Academic Catalog for specific courses: http://catalog.uccs.edu/ Business, Creative Comm, Globalization, Inclusive Education, or Custom (for Veterans and Transfers only)</i></p>		15

General Education and Elective Requirements		
Core Writing Requirement (3 hours)	<ul style="list-style-type: none"> ENGL 1310, 1308, or 1305 (<i>Students choosing ENGL 1305 must complete ENGL 1300 first.</i>) Writing Portfolio – PORT 3000 (0 credits) or PORT 4000 (1 credit) or alternative – See Degree Audit 	
Mathematics (17 hours) <ul style="list-style-type: none"> Courses must be completed with a grade of “C” or better. 	<ul 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 (10 hours)	Complete 10 hours of basic science course work from the following: BIOL 1300, BIOL 1310, BIOL 1350, BIOL 1360, CHEM 1401, CHEM 1402, CHEM 1411, CHEM 1412, PES 1110, PES 1160, PES 1120, PES 2160	
Compass Curriculum (3 hours) <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. 	Component	Course
	Gateway	GPS 1010
	Explore – Arts, Humanities and Cultures	INOV 1010 or INOV 1011 (included in BI Core)
	Explore – Society, Behavior and Health	INOV 1000 or INOV 1001 (included in BI Core)
	Explore – Physical and Natural World	Basic Science Course (included in Basic Science requirement)
	Navigate	INOV 3010 (included in BI Core)
	Summit	INOV 4500 (included in BI Core)
	Writing Intensive Courses (WIC) <i>Two courses with one upper-division (3000+ level)</i>	<ul style="list-style-type: none"> INOV 2010 (included in BI Core) INOV 3010 (included in BI Core)
Inclusiveness	INOV 1010 or INOV 1011 (included in BI Core)	
Sustainability	INOV 1000 or INOV 1001 (included in BI Core)	
General Electives (4 hours)	Complete any 4 hours of Elective coursework except Computer Science courses numbered below CS 1150, or Math courses numbered below MATH 1350.	

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
		INOV 1000 or INOV 1001	3		INOV 1010 or INOV 1011	3
		GPS 1010	3		MATH 1360	4
		MATH 1350	4		General Elective	2
		TOTAL	16		TOTAL	15

Year Two	✓	FALL	Hours	✓	SPRING	Hours
			INOV 2500	3		CS 3020, 3060, or 3080
		CS 2080	3		INOV 2010	3
		CS 2160	3		INOV 2100	3
		CS 2300 (<i>fall only</i>) or MATH 3130	3		CS 2150 or MATH 2150	3
		Basic Science Elective	5		Basic Science Elective	5
		TOTAL	17		TOTAL	17

Year Three	✓	FALL	Hours	✓	SPRING	Hours
			CS 2020 or MATH 3810	3		CS 3300
		CS 3160	3		CS 4220	3
		CS 4200	3		INOV 3010	3
		CS 4720	3		Cross Discipline Core Course	3
		Cross Discipline Core Course	3		Cross Discipline Core Course	3
					PORT 3000	0
		TOTAL	15		TOTAL	15

Year Four	✓	FALL	Hours	✓	SPRING	Hours
			CS 4420	3		CS 3050
		CS 4910	3		CS 4500	3
		UD Professional Elective Course	3		UD Professional Elective Course	3
		INOV 4010	3		INOV 4500	3
		Cross Discipline Core Course	3		Cross Discipline Core Course	3
					UD General Elective	2
		TOTAL	15		TOTAL	15