



University of Colorado
Colorado Springs

College of Engineering & Applied Science – B.I. Computer Science

Academic Advising Hours:

Location: Main Hall 208

Hours: Monday–Friday: 9am–4pm Appointments Only (except Wednesday afternoons)

Drop-in Advising every Wednesday from 1pm–4:30pm

Call: (719) 255-3260

Website: www.uccs.edu/advising

General Academic Information

Academic Policies

It is the responsibility of each student to know and follow all Academic policies established by the University and the College of Engineering & Applied Science (EAS) that are set forth in the Catalog (catalog.uccs.edu).

Course Prerequisites

Students are responsible for knowing and completing all course prerequisites. Course prerequisites are strictly enforced for all classes at UCCS.

Residency, Restrictions, and Limitations

Students must be admitted into the College of Engineering and Applied Science as well as complete at least the final 30 credit hours of coursework exclusively at UCCS. Only three hours of Independent Study may count toward the degree. Credit for work experience, Military Science, and ROTC – when granted – is generally not applicable to degree fulfillment.

Probation/Suspension

Students whose full-time semester's or cumulative GPA falls below 2.0 will be placed on probation for the next semester in which they are enrolled in the College of Engineering & Applied Science and will be notified by email and mail. If, after that semester, the semester or cumulative GPA is still below 2.0, the student will be suspended from the college. PLEASE NOTE: *While on probation, registration for the subsequent semester will be blocked until final grades are posted for the current semester. This is to verify that the minimum semester GPA for each student has been fulfilled.*

UCCS Bachelor of Innovation, Computer Science Major Degree Requirements

> A minimum of 128 hours must be completed with a cumulative CU grade point average of 2.0.

> The last 30 hours of the degree must be completed while registered in the College of Engineering and Applied Science at UCCS.

> Courses numbered below 1000 do not count towards degree completion.

> This guide is provided for student use only. It does not represent an official documentation of a student's progress towards completion of their degree program. The CS program requires a minimum 2.0 GPA in all CS course work taken in order to graduate. Students must also complete an Exit Interview with the CS Department during their final semester to graduate.

Compass Curriculum

Compass Curriculum is the campus-wide general education program at UCCS. The Compass Curriculum has multiple components many of which will coincide with the degree requirements listed in this guide. Please visit the Compass Curriculum website at www.uccs.edu/compasscurriculum, review your degree audit, or check out the Compass Curriculum advising guide for specific course details. The required components are listed below and referenced in the guide.

REQUIRED COMPASS CURRICULUM COMPONENTS:

Component	Course
Gateway	GPS 1010
Explore – Arts, Humanities and Cultures	INOV 1010
Explore – Society, Behavior and Health	ENTP 1000
Explore – Physical and Natural World	See Degree Audit
Navigate	INOV 3010
Summit	ENTP 4500
Writing Intensive Course (WIC) ¹ <i>Two courses with at least one upper-division (3000+ level).</i>	INOV 2010 INOV 3010
Inclusiveness ¹	INOV 1010
Sustainability ¹	ENTP 1000

¹ Can count towards other requirements within the Compass Curriculum or within a student's degree program.



DEPARTMENT OF COMPUTER SCIENCE

Department website: www.uccs.edu/cs

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Degree Requirements	Courses		
Computer Science Core Courses (48 hours) <i>You must be admitted into the College of Engineering in order to take any CS coursework.</i>	Complete all of the following courses:		
	CS 1150	Principles of Computer Science	3
	CS 1450	Data Structures & Algorithms (<i>pre-req CS 1150</i>)	3
	CS 2060	Programming in C (<i>pre-req CS 1150</i>)	3
	CS 2080	Programming with UNIX (<i>pre-req CS 1450</i>)	2
	CS 2160	Computer Org. & Assembly Language (<i>pre-req CS 1450, CS 2060</i>)	3
	CS 3050	Social & Ethical Implications of Computing (<i>pre-req CS 2080</i>)	1
	CS 3060 or CS 3020	Object Oriented Programming in C++ (<i>pre-req CS 2060, CS 2080</i>) Adv Object Tech Using C#/.NET.C# (<i>pre-req CS 1450</i>)	3
	CS 3160	Concepts of Programming Languages (<i>pre-req CS 2060, CS 2160, CS 3020 or CS 3060</i>)	3
	CS 3300	Software Engineering (<i>pre-req CS 2080, CS 3020 or CS 3060</i>)	3
	CS 4200	Computer Architecture I (<i>pre-req CS 2160</i>)	3
	CS 4220	Computer Networks (<i>pre-req CS 2060 and MATH 2150</i>)	3
	CS 4420	Database Systems I (<i>pre-req CS 3300</i>)	3
	CS 4500	Operating Systems I (<i>pre-req CS 2060, CS 2080 or CS 4200</i>)	3
	CS 4720	Design & Analysis of Algorithms (<i>pre-req CS 1450, MATH 2150</i>)	3
	Computer Science Elective	Complete three hours of Computer Science courses numbered 4000-5999 that are not being used to fulfill another requirement.	3
	Computer Science Professional Elective	Complete 6 hours of Professional Electives from the following options that are not being used to fulfill another requirement: 1. any 3000+ level Computer Science course 2. any 3000+ level Electrical Engineering course 3. any 3100+ level Mathematics course 4. any 3000+ level Natural Science course 5. any 3000+ level College of Business course (except BUAD 3010, 3020, or 3030) <i>At least 3 hours of Professional Electives must be science or math</i>	6
Innovation Core (24 hours)	Complete all of the following courses:		
	ENTP 1000	Introduction to Entrepreneurship	3
	INOV 1010	The Innovation Process	3
	BLAW 2010	Business and Intellectual Property Law (<i>pre-req Soph Standing</i>)	3
	INOV 2010	Innovation Team: Analyze and Report (<i>pre-req INOV 1010 and ENTP 1000</i>)	3
	INOV 2100	Technical Writing, Proposals, and Presentations (<i>pre-req ENGL 1310 or ENGL 1410</i>)	3
	INOV 3010	Innovation Team: Research and Execute (<i>pre-req INOV 2010</i>)	3
	INOV 4010	Innovation Team: Design and Lead (<i>pre-req INOV 2100 and INOV 3010</i>)	3
ENTP 4500	Entrepreneurship and Strategy (<i>pre-req BLAW 2010 and INOV 3010</i>)	3	

Cross-Discipline Core (15 hours)	Complete one of the Cross-Discipline Cores listed below. Each Cross-Discipline Core consists of 15 credit hours. See the BI website for specific e -courses (innovation.uccs.edu). Business Creative Communication Globalization					15
Composition Courses (3 hours)	Complete all of the following courses:					
	ENGL 1310	Rhetoric & Writing I				3
	PORT 3000	Writing Portfolio Assessment				0
Mathematics (17 hours)	Complete all of the following courses:					
	MATH 1350	Calculus I (<i>pre-req MATH 1050</i>)				4
	MATH 1360	Calculus II (<i>pre-req MATH 1350</i>)				4
	MATH 2150	Discrete Mathematics (<i>pre-req MATH 1350</i>)				3
	CS 2300	Computational Linear Algebra (<i>pre-req CS 1150 or GDD 1200, MATH 99</i>)				3
	QUAN 2010, or ECE 3610 or MATH 3810 ECE 3610 or Math 3810	Business Statistics (<i>pre-req INFS 1100, MATH 1040, sophomore standing or MATH 1120</i>)) or Engineering Probability & Stats or Introduction to Probability and Statistics .				3
Basic Science (10 hours)	Complete one full year of Basic Science with Lab in the same subject. (If Biology sequence is chosen, select two additional hours from BIOL, PES, or CHEM and inform Academic Advisor.)					
	BIOL 1300	BIOL 1310	BIOL 1350	BIOL 1360	CHEM 1401	CHEM 1402
	CHEM 1411	CHEM 1412	PES 1110	PES 1160	PES 1120	PES 2160
Math/Science Electives (5 hours)	Complete any 5 hours of Math (above 2000 or above except MATH 4650) or any science to bring total math/science to at least 32 credits.					
Compass Curriculum (3 hours)	In addition to the courses outlined above a Gateway Seminar (GPS 1010) must be completed by all students to complete the Compass Curriculum. To see a list of all Compass Curriculum courses, please visit: www.uccs.edu/compasscurriculum .					
Open Electives (5 hours)	Complete any 5 hours of Elective coursework except Computer Science courses numbered below CS 1150, or Math courses numbered below MATH 1350.					

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Four-Year Degree Plan – B.I. Computer Science

The following four-year plan lists all the specific course requirements for the Bachelor of Innovation in Computer Science degree at UCCS. The order in which these courses are taken may vary with course availability. **Students are responsible for completing all course prerequisites.** Please note that this is a *suggested* degree program; your program may vary.

Suggested First Year

FALL			SPRING		
√	Course	Hours	√	Course	Hours
	CS 1150	3		CS 1450	3
	ENTP 1000	3		CS 2060	3
	MATH 1350	4		MATH 1360	4
	GPS 1010	3		INOV 1010	3
	ENGL 1310	3		Cross Discipline Core Course	3
	TOTAL	16		TOTAL	16

Suggested Second Year

FALL			SPRING		
√	Course	Hours	√	Course	Hours
	CS 2080	2		CS 3060 or CS 3020	3
	CS 2160	3		INOV 2010	3
	BLAW 2010	3		INOV 2100	3
	CS 2300 (Fall only)	3		MATH 2150	3
	Basic Science with Lab	5		Basic Science with Lab	5
	TOTAL	16		TOTAL	17

Suggested Third Year

FALL			SPRING		
√	Course	Hours	√	Course	Hours
	CS 3160	3		CS 3300	3
	CS 4720	3		CS 4200	3
	CS 4220	3		INOV 3010	3
	Math/Science Elective QUAN 2010	3		Cross Discipline Core Course	3
	Cross Discipline Core Course	3		Cross Discipline Core Course CS4220	3
				QUAN 2010 or ENG3160 or Math 3180 Open Elective	3
	TOTAL	15		TOTAL	18

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Suggested Fourth Year

FALL			SPRING		
√	Course	Hours	√	Course	Hours
	CS 4500 CS 4420	3		CS 3050 CS Elective (4000-5999)	3
	CS/Professional Elective (4000-5999)	3		CS /Professional 4500 Elective	3
	CS 3050 Professional Elective Course (3000+)	3		Open Elective Professional Elective Course (3000+)	3
	INOV 4010	3		ENTP 4500	3
	Cross Discipline Core PORT 3000	3		Cross Discipline Core Course	3
	Open Elective	3			
	PORT 3000 Open Elective	3		Open Elective	3
	TOTAL	15		TOTAL	14

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