COMPUTER SECURITY B.I.

UCCS University of Colorado Colorado Springs

ACADEMIC ADVISING

Partnering with students to successfully navigate college
Location: Main Hall 208
Phone: 719.255.3260
Website: www.uccs.edu/advising

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- Appointments: www.uccs.edu/advising/current-students
- Drop In Advising: Most Wednesdays, 1:00pm - 4:00pm

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

GENERAL ACADEMIC INFORMATION

Minimum Graduation Requirements
1. 125 credit hours
2. 2.0 CU cumulative GPA
3. 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:
1. All academic policies set forth by the University, College, and academic department in the UCCS Catalog: catalog.uccs.edu
2. 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.

MAJOR INFORMATION

Computer science is the study of both computer hardware and software design. It encompasses both the study of theoretical algorithms and the practical problems involved in implementing them through computer hardware and software. The study of computer science has many branches, including artificial intelligence, software engineering, programming, and computer security.

Major Requirements

Computer Security Core Courses (51 hours)	Course/Area	Course Title	Credit Hours
You must be admitted into the College of Engineering in order to take any CS coursework. *All required CS course work requires a grade of "C" or better.*	CS 1150	Principles of Computer Science	3
	CS 1450	Data Structures & Algorithms	3
	CS 2060	Programming in C	3
	CS 2080	Programming with UNIX	2
	CS 2160	Computer Org. & Assembly Language	3
	CS 3050	Social & Ethical Implications of Computing	1
	CS 3060 OR CS 3020	Object Oriented Programming in C++ Adv Object Tech Using C#/.NET.C#	3
	CS 3300	Software Engineering	3
	CS 3910	System Administration & Security	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 4910	Fundamentals of Computer/Network Security	3
	CS 4920	Applied Cryptography	3
	PAD 3400 OR PAD 4400	Public Administration & Homeland Security Understanding Terrorism	3
	CS Electives	*Complete 6 hours of electives from upper-division (3000+ level) CS, INFS, MGMT, or PAD courses*	6

BI 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	3
	INOV 2010	Innovation Team: Analyze and Report	3
	INOV 2100	Technical Writing, Proposals, and Presentations	3
	INOV 3010	Innovation Team: Research and Execute	3
	INOV 4010	Innovation Team: Design and Lead	3
	ENTP 4500	Entrepreneurship and Strategy	3

BI 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 courses (innovation.uccs.edu).* **Business** **Creative Communication** **Globalization**	15

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General Education and Elective Requirements

Composition (3 hours)	1. ENGL 1310 2. PORT 3000 (0 Credits) – Writing Portfolio
Mathematics (13 hours)	1. MATH 1350 2. MATH 2150 3. CS 2300 4. ECE 3610 OR QUAN 2010
Basic Science (10 hours)	1. *Complete 10 hours of basic science courses 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)

- 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	INOV 1010 (included in BI Core requirements)
Explore – Society, Behavior and Health	ENTP 1000 (included in BI Core requirements)
Explore – Physical and Natural World	Basic Science Course (included in Basic Science requirement)
Navigate	INOV 3010 (included in BI Core requirements)
Summit	ENTP 4500 (included in BI Core requirements)
Writing Intensive Courses (WIC) *Two courses with one upper-division (3000+ level)*	1. INOV 2010 (included in BI Core requirements) 2. INOV 3010 (included in BI Core requirements)
Inclusiveness	INOV 1010 (included in BI Core requirements)
Sustainability	ENTP 1000 (included in BI Core requirements)

Open Electives (6 hours)	Complete any 6 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	3
	ENGL 1310	3		CS 2060	3
	ENTP 1000	3		INOV 1010	3
	GPS 1010	3		MATH 2150	3
	MATH 1350	4		Cross Discipline Core Course	3
	TOTAL	16		**TOTAL**	15

Year Two

√	FALL	Hours	√	SPRING	Hours
	BLAW 2010	3		CS 3060 or CS 3020	3
	CS 2080	2		CS 3910	3
	CS 2160	3		INOV2010	3
	CS 2300	3		INOV 2100	3
	QUAN 2010	3		Cross Discipline Core	3
	Cross Discipline Core	3			
	TOTAL	17		**TOTAL**	15

Year Three

√	FALL	Hours	√	SPRING	Hours
	CS 3050	1		CS 3300	3
	CS 4910	3		CS 4200	3
	INOV 3010	3		CS 4220	3
	PAD 3400 or PAD 4400	3		Cross Discipline Core Course	3
	Basic Science w/Lab	5		Basic Science w/Lab	5
				PORT 3000	0
	TOTAL	15		**TOTAL**	17

Year Four

√	FALL	Hours	√	SPRING	Hours
	CS 4420	3		CS 4920	3
	CS 4500	3		ENTP 4500	3
	INOV 4010	3		Computer Security Elective	3
	Computer Security Elective	3		Cross Discipline Core Course	3
	Open Elective	3		Open Elective	3
	TOTAL	15		**TOTAL**	15