COMPUTER SECURITY B.I.

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
- 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 | College of Engineering and Applied Science (uccs.edu)

Major Requirements

	Course/Area	Course Title	Credit Hours
Computer Security Core Courses (55 hours) • Requires a minimum of 46 credit hours of CS course work, with an additional 9 hours of Computer Science Electives. • Requires a minimum of 31 credit hours of upper-division (3000-4999 level) CS course work. • All CS courses must be completed with a grade of "C" or better. *You must be admitted into the College of Engineering in order to take CS 1450 or any 2000-level or higher CS coursework.*	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 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
	CS 4940	Ethical Hacking	3
	CS Electives	*Complete 9 hours of upper-division (3000+ level) CS, CYSM, INFS, or MGMT electives that are focused on security. Faculty advisor approval required.*	9
BI Innovation Core (24 hours)	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
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 degree audit or Academic Catalog for specific courses: http://catalog.uccs.edu/* **Business, Creative Communication, Globalization, Inclusive Education, or Custom (for Veterans and Transfer students only)**		15

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General Education and Elective Requirements

Core Writing Requirement (3 hours)	• ENGL 1310, 1308, or 1305 *(Students choosing ENGL 1305 must complete ENGL 1300 first.)* • PORT 3000 (0 Credits) – Writing Portfolio
Mathematics (13 hours)	• MATH 1350 • MATH 2150 • CS 2020 **or** MATH 3810 • CS 2300 **or** MATH 3130
Basic Science (10 hours)	*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 **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) *Two courses with one upper-division (3000+ level)*	• 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)

Open Electives (2 hours)	Complete any 2 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
	INOV 1000 **or** INOV 1001	3		INOV 1010 **or** INOV 1011	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
	INOV 2500	3		CS 3060 or CS 3020 or CS 3080	3
	CS 2080	3		CS 3910	3
	CS 2160	3		INOV2010	3
	CS 2300 or MATH 3130	3		INOV 2100	3
	CS 2020 or ECE 3610 or QUAN 2010	3		Cross Discipline Core Course	3
	Cross Discipline Core Course	3			
	TOTAL	18		**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
	Computer Security Elective	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		INOV 4500	3
	INOV 4010	3		Computer Security Elective	3
	Computer Security Elective	3		Cross Discipline Core Course	3
	CS 4940	3		Open Elective	2
	TOTAL	15		**TOTAL**	14