

Undergraduate Major Map

Catalog Year 2022
College / School Engineering
Major Cybersecurity - BS
Track / Concentration
Career Path Four Year Freshman

Fall Term 2022				Term Hours: 12	Cum GPA: 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes	
UCC First Year Experience	SLS 1501	First Year Exper	1		
UCC Communication	ENC 1101	Writing and Rhetoric I	3		
UCC Mathematics Group Two	MAC 1147	PreCal Alg and Trig	4		
UCC Social Science Group One			3	POS 2041 or AMH 2020 are recommended if Civic Literacy requirement is not met.	
Introduction to Computing	CGS 1920	Intro to Computing	1		

Spring Term 2023				Term Hours: 12	Cum GPA: 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes	
UCC Communication	ENC 1102	Writing and Rhetoric II	3		
UCC Mathematics Group One	STA 2023	Stat Bus & Eco	3	STA 2122 can be used as a substitute.	
Introduction to Databases for All	CGS 1540	Intro to Database for All	3		
Programming in Java	COP 2250	Java Programming	3		

Summer Term 2023				Term Hours: 6	Cum GPA: 2
Use this semester to catch up on course work and/or to satisfy the 9 credits summer requirement. (3) See endnotes UCC Humanities - Group 1 can be used to satisfy the GL Foundations requirement (if this requirement has not been satisfied).					
Course Group	Course Required	Course Description	Credit Hours	Course Notes	
UCC Arts			3	Can be used to meet summer enrollment requirement.	
UCC Social Science Group Two			3	Can be used to satisfy the Global Learning Foundations requirement. Can be used to meet summer enrollment requirement.	

Undergraduate Major Map

Fall Term 2023				Term Hours: 13
				Cum GPA: 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes
UCC Humanities Group One			3	
Discrete Mathematics	COT 3100	Discrete Structures	3	Can be substituted with MAD 2104.
Professional and Technical Wri	ENC 3249	Prof Tech Writing Comp	3	Can be substituted with ENC 3213. Both courses meet 1 Gordon Rule with Writing Requirement.
UCC Natural Science Group One			3	Chose any 3 credit Physics course to meet the program general physics prerequisite requirement.
UCC Natural Science Group One			1	

Spring Term 2024				Term Hours: 13
				Cum GPA: 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes
Cybersecurity Core Courses	COP 3804	Intermediate Java	3	
UCC Natural Science - Group Two			3	UCC Natural Science Group 2 Lecture. (1) See Endnotes
UCC Natural Science - Group Two			1	UCC Natural Science Group 2 Lab. (1) See Endnotes
UCC Humanities - Group Two			3	Can be used to satisfy the Global Learning Foundations requirement and/or meet 1 Gordon Rule with Writing requirement.
Intro To Psychology	PSY 2012	Intro To Psychology	3	

Summer Term 2024				Term Hours: 6
Use this semester to catch up on coursework and/or satisfy the 9 credits summer requirement (if needed). (3) See Endnotes				Cum GPA: 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes
Secure C Programming for Engineers	COP 2270	Sec C Prog for Engineers	3	
Principles of Economics	ECO 2013	Principles Macroeco	3	

Undergraduate Major Map

Fall Term 2024				Term Hours: 12	Cum GPA: 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes	
Cybersecurity Core Courses	CGS 3095	Technology in the Global Arena	3	Satisfies Global Learning Discipline-Specific requirement.	
Cybersecurity Core Courses	CEN 3721	Intro Human-Comp Interaction	3		
Interdisciplinary Study			3	Nine additional credits must be taken from one cognitive area, minor, or certificate outside of the department.	
Cybersecurity Core Courses	CGS 3767	Computer Os	3		

Spring Term 2025				Term Hours: 15	Cum GPA: 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes	
Cybersecurity Core Courses	CGS 4285	Appl Networking	3		
Cybersecurity Core Courses	CNT 4403	Computer Security	3		
Cybersecurity Core Courses	COP 4703	Info Retrieval	3		
Electives			3	9 credits in Cybersecurity Electives must be taken from the preapproved list.	
General Electives			3	Free choice elective to reach 120 credits for the degree.	

Summer Term 2025				Term Hours: 6	Cum GPA: 2
Use this semester to catch up on coursework and/or satisfy the 9 credits summer requirement (if needed). (3) See Endnotes					
Course Group	Course Required	Course Description	Credit Hours	Course Notes	
General Electives			3	Free choice elective to reach 120 credits for the degree. If FLENT/FLEX foreign language requirement is pending, then take level I of a language.	
Interdisciplinary Study			3	Nine additional credits must be taken from one cognitive area, minor, or certificate outside of the department.	

Undergraduate Major Map

Fall Term 2025				Term Hours: 13	Cum GPA: 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes	
Cybersecurity Core Courses	CIS 4365	Enterprise Security	3		
Cybersecurity Core Courses	CNT 4182	Mobile and IoT Security	3		
General Electives			3	Free choice elective to reach 120 credits for the degree. If FLENT/FLEX foreign language requirement is pending, then take level II of a language.	
Electives			3	9 credits in Cybersecurity Electives must be taken from the preapproved list.	
Capstone VIP Project	CIS 3950	Capstone I	1		

Spring Term 2026				Term Hours: 14	Cum GPA: 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes	
Interdisciplinary Study			3	Nine additional credits must be taken from one cognitive area, minor, or certificate outside of the department.	
Capstone VIP Project	CIS 4951	Capstone II	2		
Electives			3	9 credits in Cybersecurity Electives must be taken from the preapproved list.	
General Electives			3	Free choice elective to reach 120 credits for the degree.	
General Electives			3	Free choice elective to reach 120 credits for the degree.	

General Requirements

Critical Indicator is the minimum grade indicated in specific courses to demonstrate proficiency and progress in major. Earning less than the minimum grade is a trigger for a conversation with advisor

GENERAL UNIVERSITY REQUIREMENTS

See your Panther Degree Audit (PDA) for a real-time update on your academic career progress and additional information on University and major requirements at <http://my.fiu.edu>

(1) UCC: Students must meet the University Core Curriculum (UCC) requirements. For a full list of UCC courses, see <http://undergrad.fiu.edu/advising/pdfs/ucc-new.pdf> or speak with your advisor. UCC courses must be taken for a letter grade and may not be taken at other institutions without permission from the Dean of Undergraduate Education.

Undergraduate Major Map

(2) Global Learning: Freshmen entering FIU Summer B 2010 or later must take at least two Global Learning (GL) designated courses at FIU. See <http://goglobal.fiu.edu>. Courses must be:

- 1 Global Learning Foundations (University Core Curriculum) course, which must be taken within the first 60 credits.
- 1 Global Learning Discipline-Specific course (3000/4000 level)

(3) Summer Hours Requirement: All students entering FIU or any university within the State University System (SUS) of Florida with fewer than 60 credit hours are required to earn at least nine credit hours prior to graduation by attending one or more summer terms at a university in the SUS.

(4) Gordon Rule with Writing Requirement: Students are required to demonstrate college-level writing skills through six semester hours of Gordon Rule Writing-designated courses (GRW). Students can select any two GRW designated courses in the UCC. These courses can be from the same or different categories. A grade of 'C' or better is required. This requirement must be fulfilled within the first 60 credits.

(5) Foreign Language Requirement for Graduation (FLENT/FLEX): A student who did not complete two years of the same foreign language in high school or at a post-secondary institution must successfully complete 8-10 credit hours of instruction in one foreign language prior to graduation. Exceptions include appropriate CLEP, AP, IB, TOEFL, or transfer credit. Contact your advisor for more information.

(6) Postsecondary Civic Literacy (CL): Students must demonstrate understanding of American Civics via completed course work or test credit. Consult with an advisor to determine the best option for satisfying this requirement.

This document only lists SELECTED requirements. See your Panther Degree Audit for a full list of UCC and major requirements at <http://my.fiu.edu>.

COLLEGE OF ENGINEERING AND COMPUTING: Selected Major Requirements

Grades: Students must earn a minimum grade of 'C' in all math and core courses, and maintain a minimum of a 2.0 cumulative GPA.

(A) Interdisciplinary Credits: Nine credits must be taken outside SCIS. These credits must be selected from the courses for a minor or certificate in another discipline. All nine credits must be applicable to the same minor or certificate.

(B) IT Electives: Students must take 5 elective courses. From the five areas of concentration select two areas and take two courses in those two selected areas (e.g. System Administration; Network Administration; Database Administration; Application Development; Security). The fifth course may be selected from any area of concentration. See PDA for list of options.

This document only lists SELECTED requirements. See your Panther Degree Audit for a full list of the College of Engineering and Computing, Information Technology major requirements at <http://my.fiu.edu>