

## Undergraduate Major Map

Catalog Year 2023  
College / School Engineering  
Major Information Technology - BS  
Track / Concentration  
Career Path Four Year Freshman

<b>Fall Term 2023</b> The MAC1147 requirement can be satisfied with any higher level math course like MAC2233 or MAC2311.					<b>Term Hours:</b> 12 <b>Cum GPA:</b> 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 Mathematics - Group 2. (1) See endnotes	
UCC Social Science Group One			3	POS 2041 or AMH 2020 are recommended if Civic Literacy requirement is not met	
Intro to Computing	CGS 1920	Intro. Field to Computing	1		

<b>Spring Term 2024</b> UCC Arts can be used to satisfy the GL Foundations requirement.					<b>Term Hours:</b> 12 <b>Cum GPA:</b> 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes	
UCC Communication	ENC 1102	Writing and Rhetoric II	3		
Introduction to Psychology	PSY 2012	Intro To Psychology	3		
Intro to Microcomputers	CGS 2060	Intro To Micro Comp	3	CGS 2518 or CGS 2100 can be used as substitutes.	
Programming	COP 2250	Java Programming	3	Can also be used to satisfy UCC Mathematics Group 1	

<b>Summer Term 2024</b> 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).					<b>Term Hours:</b> 6 <b>Cum GPA:</b> 2
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.	

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<b>Fall Term 2024</b> UCC Social Science - Group 2 can be used to satisfy the Foundations Global Learning (GL) requirement (if this requirement has not been satisfied).  UCC Humanities - Group 2 can be used to satisfy one GRW and/or the GL Foundations requirement (if these requirements have not been satisfied).					<b>Term Hours:</b> 13 <b>Cum GPA:</b> 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes	
Discrete Mathematics	COT 3100	Discrete Structures	3	Can be substituted with MAD 2104 or MAD 1100.	
UCC Humanities Group One			3		
Professional and Technical Writing	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	UCC Natural Science Group 1 Lecture. (1) See Endnotes	
UCC Natural Science Group One			1	UCC Natural Science Group 1 Lab. (1) See Endnotes	

<b>Spring Term 2025</b>					<b>Term Hours:</b> 13 <b>Cum GPA:</b> 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes	
IT 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.	
IT Core Courses	CGS 3767	Computer Os	3		

<b>Summer Term 2025</b> Use this semester to catch up on coursework and/or satisfy the 9 credits summer requirement (if needed). (3) See Endnotes					<b>Term Hours:</b> 6 <b>Cum GPA:</b> 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes	
Interdisciplinary Study			3	Nine additional credits must be taken from one cognate area, minor, or certificate outside of the department.	
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<b>Fall Term 2025</b>				<b>Term Hours:</b> 12
** Student is strongly encouraged to do an internship before the start of senior year. Please contact STEM coordinator for more information. **				<b>Cum GPA:</b> 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes
IT Core Courses	CGS 3095	Technology in the Global Arena	3	Satisfies Global Learning Discipline-Specific requirement.
IT Core Courses	CGS 4285	Appl Networking	3	
IT Core Courses	CEN 3721	Intro Human-Comp Interaction	3	
Interdisciplinary Study			3	Nine additional credits must be taken from one cognate area, minor, or certificate outside of the department.

<b>Spring Term 2026</b>				<b>Term Hours:</b> 15
** Student is strongly encouraged to do an internship before the start of senior year. Please contact STEM coordinator for more information if you have not done it yet. **				<b>Cum GPA:</b> 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes
IT Core Courses	CGS 4854	Websiteconmgmt	3	
IT Core Courses	COP 4703	Info Retrieval	3	
IT Electives			3	Concentration Area 1 ζ Course 1. See PDA for options or speak to advisor for clarification
IT Electives			3	Concentration Area 2 ζ Course 1. See PDA for options or speak to advisor for clarification.
General Electives			3	Free choice elective to reach 120 credits for the degree.

<b>Summer Term 2026</b>				<b>Term Hours:</b> 6
** Student should be doing an Internship this summer term. Please contact STEM coordinator for help.				<b>Cum GPA:</b> 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 lanaguage requirement is pending, then take level I of a language.
IT Electives			3	Concentration Area 1 ζ Course 2. See PDA for options or speak to advisor for clarification.

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Fall Term 2026				Term Hours: 13	Cum GPA: 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes	
IT Core Courses	COP 4814	Compon Software Dev	3		
IT Core Courses	CNT 4403	Computer Security	3		
General Electives			3	Free choice elective to reach 120 credits for the degree. If FLENT/FLEX foreign lanaguage requirement is pending, then take level II of a language.	
IT Electives			3	Concentration Area 2 ; Course 2. See PDA for options or speak to advisor for clarification.	
Capstone	CIS 3950	Capstone I	1		

Spring Term 2027				Term Hours: 17	Cum GPA: 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes	
IT Electives			3	Final IT Elective course from either Concentration Area 1 or 2. See PDA for options or speak to advisor for clarification.	
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.	
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General Electives			3	Free choice elective to reach 120 credits for the degree.	
Capstone	CIS 4951	Capstone II	2		

### 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.

(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

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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>