

Undergraduate Major Map

Catalog Year: 2022
College / School: Engineering
Major: Computer Science - BA
Track / Concentration:
Career Path: Four Year Freshman

Fall Term 2022					Term Hours: 14
Prerequisite for MAC 1147 (PreCalculus Algebra & Trigonometry) is MAC 1105 (College Algebra).					Cum GPA: 2
UCC Social Science - Group 1 or UCC Arts can be used to satisfy the GL Foundations requirement.					
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 One	MAC 1147	PreCal Alg and Trig	4		
UCC Social Science Group One			3	(6) POS 2041 (preferably) or AMH 2020 recommended if Civic Literacy requirement is not met.	
UCC Arts			3	(1) (2) See Endnotes	

Spring Term 2023					Term Hours: 13
					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 Two	STA 2023	Stat Bus & Eco	3	UCC Mathematics Group 2. (1) See Endnotes	
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	
General Electives			3	Strongly Recommended: COP 1000 (Intro to Computer Programming)	

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Summer Term 2023 Use this semester to catch up on coursework and/or to satisfy the 9 credits summer requirement (if needed). (3) See Endnotes UCC Humanities Group 1 can be used to satisfy the GL Foundations requirement (if the requirement has not been satisfied).				Term Hours: 7 Cum GPA: 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes
UCC Humanities Group One			3	(1) (2) See Endnotes
Intro to Computing	CGS 1920	Intro to Computing	1	
General Electives			3	First Interdisciplinary Course

Fall Term 2023 UCC Humanities Group 2 satisfies one GRW. UCC Social Science Group 2 or UCC Humanities Group 2 can be used to satisfy the GL Foundations requirement (if the requirement has not been satisfied).				Term Hours: 13 Cum GPA: 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes
UCC Social Science Group Two			3	(1) (2) See Endnotes
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	Satisfies 1 GRW. (1) (2) (4) See Endnotes
General Electives			3	Strongly Recommended: COP 1000 (Intro to Computer Programming)

Spring Term 2024				Term Hours: 13 Cum GPA: 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes
Computer Programming I	COP 2210	Programming I	4	
Core Courses	ENC 3249	Prof Tech Writing Comp	3	or ENC3213 (Professional & Technical Writing). Satisfies 1 GRW. (4) See Endnotes
Interdisciplinary Courses			3	Course must meet requirement towards a minor or certificate outside SCIS. (A) See Endnotes
General Electives			3	See advisor for list of courses

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Summer Term 2024 Use this semester to catch up on coursework and/or to satisfy the 9 credits summer requirement (if needed). (3) See Endnotes				Term Hours: 6 Cum GPA: 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes
Core Courses	COP 3337	Programming II	3	
Discrete Mathematics	COT 3100	Discrete Structures	3	or MAD2104 - Discrete Math

Fall Term 2024 ** Student is strongly encouraged to do an internship before the start of the student's last year. Please contact STEM coordinator for more information. **				Term Hours: 12 Cum GPA: 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes
Core Courses	CDA 3103	Fund Computer System	3	
Core Courses	CGS 3095	Technology in the Global Arena	3	Satisfies Discipline Specific GL requirement. (1) See Endnotes
Core Courses	COP 3530	Data Structures	3	
General Electives			3	Third Interdisciplinary Course: Course must meet requirement towards a minor or certificate outside SCIS. (A) See Endnotes

Spring Term 2025 ** Student is strongly encouraged to do an internship. Please contact STEM coordinator for more information if you have not done it yet. **				Term Hours: 6 Cum GPA: 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes
Core Courses	COP 4338	Systems Programming	3	
Additional Electives			3	
Additional Electives			0	
Additional Electives			0	

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Summer Term 2025 ** Student should be doing an Internship this summer term. Please contact STEM coordinator for help. ** Use this semester to catch up on coursework and/or to satisfy the 9 credits summer requirement (if needed). (3) See Endnotes				Term Hours: 6 Cum GPA: 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes
General Electives			3	
General Electives			3	Could register for COP 3949 (Internship Course) for up to 3 Credits

Fall Term 2025				Term Hours: 12 Cum GPA: 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes
General Electives			3	See advisor for list of courses.
Core Courses	CEN 4010	Software Eng I	3	
Core Courses	COP 4610	Operating Syst Princ	3	
Computer Science Electives			3	See PDA for list of Computer Science electives. (B) See Endnotes

Spring Term 2026				Term Hours: 12 Cum GPA: 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes
Computer Science Electives			3	See PDA for list of Computer Science electives. (B) See Endnotes
Computer Science Electives			3	See PDA for list of Computer Science electives. (B) See Endnotes
General Electives			3	See advisor for list of courses.
General Electives			3	See advisor for list of courses.

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>.

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(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. Students requesting to be transient must receive 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 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 Requirement: All Gordon Rule courses (i.e., UCC Communication, UCC Mathematics, and Gordon Rule with Writing (GRW) courses) must be completed with a minimum grade of 'C'. This requirement must be fulfilled within the first 60 credits. Students are required to complete at least two Gordon Rule with Writing (GRW) courses. UCC Humanities-G2 will satisfy one GRW course and ENC3249 will satisfy the second GRW course.

(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 all 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) CS Electives: students must take three elective courses. Please see Panther Degree Audit for list of options or speak with an advisor.

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