

Undergraduate Major Map

Catalog Year 2023
College / School Engineering
Major Internet of Things - BS
Track / Concentration
Career Path Two Year Transfer

Fall Term 2023					Term GPA: 2
IN ORDER TO ADVANCE SWIFTLY, GRADUATE ON TIME AND AVOID EXCESS CREDIT SURCHARGES TRANSFER STUDENTS ARE STRONGLY ENCOURAGED TO COMPLETE ALL LOWER-LEVEL PRE-REQUISITES FOR THE PROGRAM ***PRIOR*** TO TRANSFERRING TO FIU. THE LOWER LEVEL PRE-REQUISITE COURSES INCLUDE: MAC 1105, MAC 1114, PHY 2053, PHY 2048L, PHY 2054, PHY 2049L AND 60 CREDITS OF LOWER DIVISION CREDITS WHILE MEETING FIU'S UNIVERSITY CORE CURRICULUM.					Term Hours: 15
					Cum GPA: 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes	
Introduction to IoT	TCN 2720	Intro to IoT	3		
Lower Division Core Courses	CTS 1120	Fund of Cybersec	3		
Lower Division Core Courses	EGN 2271	Intro to Cir. & Elec. HW	3	Prerequisites: PHY 2054, PHY 2049L.	
Programming in Java	COP 2250	Java Programming	3		
Lower Division Core Courses	CGS 2518	Computr Data Analys	3		

Spring Term 2024					Term GPA: 2
					Term Hours: 15
					Cum GPA: 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes	
Lower Division Core Courses	EEL 2880	C Prog Emb Sys	3		
Upper Division Core Courses	CGS 3767	Computer Os	3	Prerequisite: COP 2250	
Upper Division Core Courses	CEN 3721	Intro Human-Comp Interaction	3	Prerequisite: COP 2250	
Upper Division Core Courses	CNT 3142	Microcontrollers for IoT	3	Prerequisite: EGN 2271	
Upper Division Core Courses	CDA 3104	Intro. to Computer Design	3	Prerequisite: EGN 2271	

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Summer Term 2024				Term GPA: 2
				Term Hours: 12
				Cum GPA: 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes
Upper Division Core Courses	EEL 4730	Programming Embedded Sysms	3	Prerequisite: EEL 2880
Upper Division Core Courses	CNT 3122	Sensors for IoT	3	
General Electives			3	If not already satisfied, select a Global Learning Foundations Course to satisfy GLF requirement. Go to goglobal.fiu.edu for list of approved courses.
General Electives			3	If not already satisfied, select a Global Learning Discipline Specific Course to satisfy GLD requirement. Go to goglobal.fiu.edu for list of approved courses.

Fall Term 2024				Term GPA: 2
*See advisor for approved concentration elective list				Term Hours: 15
				Cum GPA: 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes
Upper Division Core Courses	EEL 4734	Embedded Operating Systems	3	This is a Fall onlly course. Delaying this course will delay graduaiton. Prerequisite: EEL 4730
Upper Division Core Courses	TCN 4211	Telecom Networks	3	
Upper Division Core Courses	CNT 3162	Wireless Comm. for IoT	3	
Upper Division Core Courses	EEE 4717	IoT-Sec-Intro	3	
Electives			3	Approved list is on program flowchart.

Spring Term 2025				Term GPA: 2
*See advisor for approved concentration elective list				Term Hours: 12
				Cum GPA: 2
Course Group	Course Required	Course Description	Credit Hours	Course Notes
Upper Division Core Courses	CNT 4165	Network Protocols for IoT	3	
Senior Project	TCN 4940	Senior Project	3	
Electives			3	Approved list is on program flowchart.
Electives			3	Approved list is on program flowchart.

Summer Term 2025				Term GPA: 2
Use this semester to catch up on coursework and/or satisfy the 9 credits summer requirement (if needed) and graduate on time.				Cum GPA: 2

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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/university-core-curriculum.html> 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 GL foundation course, which must be taken from the University Core Curriculum (UCC).
- 1 GL 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: 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 `C₂. This requirement must be fulfilled within the first 60 credits. Students are required to complete at least two Gordon Rule with Writing (GRW) designated courses.

(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) UCC Mathematics: Math courses are categorized into either Group One or Group Two. One math course from each group is required unless the first math taken is from Group Two and has an immediate prerequisite in Group One. In this case, students will take two Math courses from Group Two.

Grades: Students must earn a minimum grade of `C₂ in all math, physics.

For specific grade requirements, prerequisites, and course offerings please consult your academic advisor.

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>.