# Undergraduate Major Map

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

## Fall Term 2023

The MAC1140 requirement can be satisfied with any higher level math course like MAC1147, MAC2233 or MAC2311

**Term Hours:** 15
**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 | |
| Mathematics | MAC 1147 | PreCal Alg and Trig | 4 | UCC Mathematics - Group 2. (1) See endnotes |
| UCC Social Science Group One | PSY 2012 | Intro To Psychology | 3 | UCC Social Science -Group 1. (1) See endnotes |
| IT Software Track Core Courses | CGS 1920 | Intro. Field to Computing | 1 | or COP 1000 |
| General Electives | | | 3 | Civic Literacy |

## Spring Term 2024

UCC Arts can be used to satisfy the GL Foundations requirement.

**Term Hours:** 14
**Cum GPA:** 2

| Course Group | Course Required | Course Description | Credit Hours | Course Notes |
|---|---|---|---|---|
| UCC Communication | ENC 1102 | Writing and Rhetoric II | 3 | |
| Programming Software | COP 2210 | Programming I | 4 | May use to satisfy UCC Mathematics requirement |
| UCC Arts | | | 3 | (1) (2) (4) See Endnotes |
| UCC Natural Science Group One | | | 3 | (1) See Endnotes |
| UCC Natural Science Group One | | | 1 | (1) See Endnotes |

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# Undergraduate Major Map

| Summer Term 2024 | | | Term Hours: | 6 | |
|---|---|---|---|---|---|
| Use this semester to catch up on course work and/or to satisfy the 9 credits summer requirement. (3) See endnotes<br><br>UCC Humanities - Group 1 can be used to satisfy the GL Foundations requirement (if this requirement has not been satisfied). | | | Cum GPA: | 2 | |

| Course Group | Course Required | Course Description | Credit Hours | Course Notes |
|---|---|---|---|---|
| UCC Humanities Group One | | | 3 | (1) (2) (4) See Endnotes |
| General Electives | | | 3 | See advisor for list of courses. |

| Fall Term 2024 | | | Term Hours: | 15 | |
|---|---|---|---|---|---|
| UCC Social Science - Group 2 can be used to satisfy the Foundations Global Learning (GL) requirement if this requirement has not been satisfied.<br><br>UCC Humanities - Group 2 can be used to satisfy one GRW and/or the GL Foundations requirement (if these requirements have not been satisfied). | | | Cum GPA: | 2 | |

| Course Group | Course Required | Course Description | Credit Hours | Course Notes |
|---|---|---|---|---|
| Discrete Mathematics | COT 3100 | Discrete Structures | 3 | COT 3100 could be replaced with MAD 2104. |
| UCC Humanities - Group Two | | | 3 | (1) (2) (4) See Endnotes |
| UCC Social Science Group Two | | | 3 | (1) (2) (4) See Endnotes |
| Intro to Microcomputers | CGS 2518 | Computr Data Analys | 3 | or CGS 2060 or CGS 2100 |
| IT Software Track Core Courses | CGS 3767 | Computer Os | 3 | |

| Spring Term 2025 | | | Term Hours: | 13 | |
|---|---|---|---|---|---|
| If you have any questions you may contact your advisor through the dashboard. | | | Cum GPA: | 2 | |

| Course Group | Course Required | Course Description | Credit Hours | Course Notes |
|---|---|---|---|---|
| IT Software Track Core Courses | COP 3337 | Programming II | 3 | |
| UCC Natural Science - Group Two | | | 3 | (1) See Endnotes |
| UCC Natural Science - Group Two | | | 1 | (1) See Endnotes |
| IT Software Track Core Courses | CEN 3721 | Intro Human-Comp Interaction | 3 | |
| Professional and Technical Writing | ENC 3213 | Prof and Tech Writing | 3 | or ENC 3249 (Satisfies 1 GRW)<br>(4) See Endnotes |

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# Undergraduate Major Map

### Summer Term 2025
Use this semester to catch up on coursework and/or 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 |
|---|---|---|---|---|
| IT Software Track Core Courses | CGS 4285 | Appl Networking | 3 | |
| Interdisciplinary Study | | | 3 | First Interdisciplinary Course:  Course must meet requirement towards a Minor or Certificate outside SCIS. (A) See Endnote |

### Fall Term 2025
** Student is strongly encouraged to do an internship. Please contact STEM coordinator for more information.

**Term Hours:** 12
**Cum GPA:** 2

| Course Group | Course Required | Course Description | Credit Hours | Course Notes |
|---|---|---|---|---|
| IT Software Track Core Courses | CGS 3095 | Technology in the Global Arena | 3 | |
| IT Software Track Core Courses | CGS 4854 | Websiteconmgmt | 3 | |
| IT Software Track Core Courses | CNT 4403 | Computer Security | 3 | Satisfies GL Discipline Specific.  (2) See Endnotes |
| General Electives | | | 3 | See advisor for list of courses. |

### Spring Term 2026
** Student is strongly encouraged to do an internship. Please contact STEM coordinator for more information if you have not done it yet.

**Term Hours:** 12
**Cum GPA:** 2

| Course Group | Course Required | Course Description | Credit Hours | Course Notes |
|---|---|---|---|---|
| IT Software Track Core Courses | CDA 3102 | Computer Architecture | 3 | |
| IT Software Track Core Courses | COP 3530 | Data Structures | 3 | |
| IT Software Track Core Courses | COP 4703 | Info Retrieval | 3 | |
| IT ELECTIVES | | | 3 | Concentration Area 1, Course 1 See PDA for options or speak to advisor for clarification. (B) See Endnotes |

# Undergraduate Major Map

### Summer Term 2026

** 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 satisfy the 9 credits summer requirement (if needed).  (3) See Endnotes

**Term Hours:** 4
**Cum GPA:** 2

| Course Group | Course Required | Course Description | Credit Hours | Course Notes |
|---|---|---|---|---|
| General Electives | | | 3 | See advisor for list of courses |
| General Electives | | | 1 | Could register COP 3949 Internship Course for 1 Credit |

### Fall Term 2026

If you have any questions you may contact your advisor through the dashboard.

**Term Hours:** 13
**Cum GPA:** 2

| Course Group | Course Required | Course Description | Credit Hours | Course Notes |
|---|---|---|---|---|
| IT Software Track Core Courses | COP 4338 | Systems Programming | 3 | |
| IT ELECTIVES | | | 3 | Selected Concentration Area, Course 2<br>See PDA for options or speak to advisor for clarification. (B) See Endnotes |
| Interdisciplinary Study | | | 3 | Course must meet requirement towards a Minor or Certificate Outside SCIS.  (A) See Endnotes |
| General Electives | | | 3 | See advisor for list of courses. |
| Capstone | CIS 3950 | Capstone I | 1 | |

### Spring Term 2027

If you have any questions you may contact your advisor through the dashboard.

**Term Hours:** 14
**Cum GPA:** 2

| Course Group | Course Required | Course Description | Credit Hours | Course Notes |
|---|---|---|---|---|
| IT Software Track Core Courses | COP 4814 | Compon Software Dev | 3 | |
| Interdisciplinary Study | | | 3 | Course must meet requirement towards a Minor or Certificate Outside SCIS.  (A) See Endnotes |
| General Electives | | | 3 | See advisor for list of courses. |
| General Electives | | | 3 | See advisor for list of courses. |
| 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

# Undergraduate Major Map

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 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.

(8) 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 major 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: Six credits of electives are required in one area of concentration (e.g. System Administration; Network Administration; Database Administration; Application Development). 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, and Information Technology major requirements at http://my.fiu.edu

# Undergraduate Major Map