

Undergraduate Major Map

Catalog Year 2023
College / School Engineering
Major Computer Science - BS
Track / Concentration
Career Path Two Year Transfer

| Fall Term 2023 This 2-Year plan assumes student has completed an Associates of Arts Degree from a Florida Public Institution as well as the following prerequisite courses for the major: COP 2210, MAC 2311, MAC 2312, PHY 2048, PHY 2048L, PHY 2049, PHY 2049L, two Natural Science courses (BSC 1010, BSC 1011, CHM 1045, CHM 1046 or GLY 1010), and MAD 2104 (see endnotes). If not please speak with an advisor. ** 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 |
| Core Courses | COP 3337 | Programming II | 3 | |
| Professional and Technical Writing | ENC 3249 | Prof Tech Writing Comp | 3 | or ENC3213-Professional & Technical Writing |
| Introduction to Probability & Statistics | STA 3033 | Prob & Stat For Cs | 3 | |
| General Electives | | | 3 | Contact advisor for list of approved Global Learning (GL) Courses. (1) See Endnotes |

| Spring Term 2024 **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 |
| Core Courses | CGS 3095 | Technology in the Global Arena | 3 | Satisfies GL Discipline Specific. (1) See Endnotes |
| Core Courses | COP 3530 | Data Structures | 3 | |
| General Electives | | | 3 | See PDA for list of elective courses. (2) See Endnotes |
| Core Courses | CDA 3102 | Computer Architecture | 3 | |

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| Summer Term 2024 | | | | Term Hours: 12 |
|---|-----------------|---------------------|--------------|---|
| **Student should be doing an Internship this summer term. Please contact STEM coordinator for help. | | | | Cum GPA: 2 |
| Course Group | Course Required | Course Description | Credit Hours | Course Notes |
| Core Courses | COP 4338 | Systems Programming | 3 | |
| General Electives | | | 3 | See PDA for list of elective courses. (2) See Endnotes |
| COMPUTER SCIENCE BS ELECTIVES | | | 3 | See PDA for list of elective courses. (2) See Endnotes Students need to take 9 CS Electives - 1 CS Foundations Concentration, 1 CS Systems Concentration, 1 CS Applications Concentration, and 6 CS Additional Electives from any of the three concentrations. |
| Core Courses | COP 4555 | Prin Of Prog Lang | 3 | |

| Fall Term 2024 | | | | Term Hours: 13 |
|-------------------------------|-----------------|-----------------------|--------------|---|
| | | | | Cum GPA: 2 |
| Course Group | Course Required | Course Description | Credit Hours | Course Notes |
| Core Courses | CEN 4010 | Software Eng I | 3 | |
| COMPUTER SCIENCE BS ELECTIVES | | | 3 | See PDA for list of elective courses. (2) See Endnotes Students need to take 9 CS Electives - 1 CS Foundations Concentration, 1 CS Systems Concentration, 1 CS Applications Concentration, and 6 CS Additional Electives from any of the three concentrations. |
| COMPUTER SCIENCE BS ELECTIVES | | | 3 | See PDA for list of elective courses. (2) See Endnotes Students need to take 9 CS Electives - 1 CS Foundations Concentration, 1 CS Systems Concentration, 1 CS Applications Concentration, and 6 CS Additional Electives from any of the three concentrations. |
| COMPUTER SCIENCE BS ELECTIVES | | | 0 | See PDA for list of elective courses. (2) See Endnotes Students need to take 9 CS Electives - 1 CS Foundations Concentration, 1 CS Systems Concentration, 1 CS Applications Concentration, and 6 CS Additional Electives from any of the three concentrations. |
| Capstone I and II | CIS 3950 | Capstone I | 1 | |
| Core Courses | CNT 4713 | Net-centric Computing | 3 | |

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| Spring Term 2025 CIS 4911 Senior Project is recommended to be taken by itself. | | | | Term Hours: 14 Cum GPA: 2 |
|---|-----------------|----------------------|--------------|---|
| Course Group | Course Required | Course Description | Credit Hours | Course Notes |
| Capstone I and II | CIS 4951 | Capstone II | 2 | |
| COMPUTER SCIENCE BS ELECTIVES | | | 3 | See PDA for list of elective courses. (2) See Endnotes Students need to take 9 CS Electives - 1 CS Foundations Concentration, 1 CS Systems Concentration, 1 CS Applications Concentration, and 6 CS Additional Electives from any of the three concentrations. |
| COMPUTER SCIENCE BS ELECTIVES | | | 3 | See PDA for list of elective courses. (2) See Endnotes Students need to take 9 CS Electives - 1 CS Foundations Concentration, 1 CS Systems Concentration, 1 CS Applications Concentration, and 6 CS Additional Electives from any of the three concentrations. |
| Core Courses | COP 4610 | Operating Syst Princ | 3 | |
| COMPUTER SCIENCE BS ELECTIVES | | | 3 | See PDA for list of elective courses. (2) See Endnotes Students need to take 9 CS Electives - 1 CS Foundations Concentration, 1 CS Systems Concentration, 1 CS Applications Concentration, and 6 CS Additional Electives from any of the three concentrations. |

General Requirements

2 Year plan assumes student has completed an Associates of Arts Degree from a Florida Public Institution as well as the following prerequisite courses for the major: COP 2210, MAC 2311, MAC 2312, two Natural Science courses (BSC 1010, BSC 1011, CHM 1045, CHM 1046 or GLY 1010, PHY 2048, PHY 2048L, PHY 2049, PHY 2049L), and MAD 2104.

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

Transfer students are assumed to have completed an Associates of Arts Degree from a Florida Public Institution or completed 60 credits and the University Core Curriculum Requirements.

In addition, the following courses are required of incoming transfer students:

(1) Global Learning Requirement for Transfers: Transfers entering FIU Fall 2011 or later are required to take two Global Learning courses.

Those who meet University Core Curriculum Requirements prior to entering FIU:

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- Two Global Learning Discipline Specific Courses (One of the two may be a Global Learning Foundation Course chosen in consultation with your advisor)

Those who do not meet University Core Curriculum Requirements prior to entering FIU:

- One Global Learning Foundation Course (from the University Core Curriculum)
- One Global Learning Discipline Specific Course

Transfer courses may not be used to meet the FIU Global Learning Requirement. For a list of Global learning courses visit <http://goglobal.fiu.edu>.

COLLEGE OF ENGINEERING AND COMPUTING: Selected Major Requirements

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

(2) CS Electives: students must take three Computer Science elective courses. Please see Panther Degree Audit for full 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 major requirements at <http://my.fiu.edu>