Bachelor of Arts in Computer Science
(effective 01/01/2021)

Choose ONE course

- CGS 1920: Intro to Computing (1 credit)
- COP 1000: Intro to Programming
- IDC1000: Compt Science for Everyone

All courses are 3 credits, except as noted.

FHIC

STA 2023: Statistics for Business and Economics

COP 2210: Discrete Math

COT 3100: Discrete Structures

MAD 2104: Computer Architecture

CDA 3102: Operating Systems

COP 4610: Data Structures

COP 3337: Programming II

COP 3530: Systems Programming

CDA 4101: Software Engineering I

ENC 3249*: Technology in the Global Arena (GL)

CS Electives (6 courses): Must take at least one course from each elective group (most electives are 3 credits).

Remaining three elective courses must be taken from these elective groups.

Foundations
- COP 4534: Algorithm Techniques (Prereq: COP3530)
- COP 4555: Programming Languages (Prereq: COP3530)
- COP 3510: Applied Linear Structures (Coreq: COP3530)
- COP 3541: Logic for CS (Prereq: COP3337 & COT3100)
- COP 4521: Intro to Computational Geometry (Prereq: COP3530)
- MAD 3305: Graph Theory (Prereq: COP2210, MAD2104)
- MAD 3512: Theory of Algorithms (Prereq: COP3530)
- MHF 4302: Math Logic (Prereq: MAD3512)

Systems
- CEN 4083: Cloud Computing (Prereq: CNT4713 and (CDA3102 or CDA4101))
- CSE 4731: Fund Blockchain Technologies (Prereq: COP3530)
- CSE 4713: Net Centric Computing (Prereq: COP4338)
- CSE 4550: Intro to Parallel Computing (Prereq: COP3530 and (CDA3102 or CDA4101 or EEL4709))
- COP 4604: Advanced UNIX Programming (Coreq: COP4610)
- COP 4710: Database Management (Prereq: COP3337; Coreq: COP3530)
- COP 4751: Advanced Database Management (Prereq: COP4710)
- COP 4431: Applied Parallel Computing (Prereq: COP3530 and (CDA3102 or CDA4101 or EEL4709))
- CTS 4408: Database Administration (Prereq: COP4710)

Applications
- CAP 4052: Game Design & Dev (Prereq: (STA2023 or STA3023) and COP3530 and COP4104)
- CAP 4104: Human Comp Interact (Prereq: COP3337)
- CAP 4630: Artificial Intelligence (Prereq: COP3530)
- CAP 4641: Nat Lang Processing (Prereq: COP3530)
- CAP 4770: Intro to Data Mining (Prereq: COP3530, Coreq: COP4104)
- CAP 4830: Modeling & Simulations (Prereq: (STA2023 or STA3023) and COP3530)
- CEN 4021: Software Engineering II (Prereq: COP3530)
- CEN 4072: Software Testing (Prereq: COP3530)
- COP 4226: Adv Windows Program (Prereq: COP3530)
- COP 4655: Mobile App Dev (Prereq: (CDA3102 or CDA4101) or (CEN3721 and COP4104))

* Prerequisites:
- COP2210: MAC1140 or higher level math course
- COT3100: Prereq: MAC XXXX and COP XXXX (any MAC course and any COP course)
Coreq:(COP2210 or COP 2250 or EEL2280)
- ENC3249/ENC3213: UCC English requirements
- MAD2104: MAC1105 or MGF1106

A line indicates a prerequisite. The course above must be completed before the course below can be taken.

A diamond indicates a co-requisite. The course closer to the diamond may be taken at the same time as the co-requisite. The co-requisite is a prerequisite for any course that requires the course closer to the diamond.

Pending advisor approval.

Nine additional credits must be taken from one cognitive area outside SCIS. For example, 9 credits within a minor or certificate meets this requirement. Find minors and certificates in the FIU Undergraduate Catalog @ https://catalog.fiu.edu/

§ Both COP 2210 and COP 2210L must be registered together with the same professor.