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.

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

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)
- COT 3541-Logic for CS (Prereq: COP3337 & COT3100)
- COT 4521-Intro to Computational Geometry (Prereq: COP3530)
- MAD 3305-Graph Theory (Prereq: COP2210, MAD2104)
- MAD 3512-Theory of Algorithms (Prereq: COP3530)
- MGF 4302-Math Logic (Prereq: MAD3512)

Systems
- STA 2023 Statistics for Business and Economics
- COP 2210 (4 credits)  COP 2210L (0 credit)
- MAD 2104* Discrete Math
- COT 3100** Discrete Structures
- CDA 3102 Computer Architecture
- COP 3337 Programming II
- COP 3530 Data Structures
- COP 4338 Systems Programming
- COP 4610 Operating Systems (COP4338 and CDA3102/CDA4101)

Applications

- CAP 4052-Game Design & Dev (Prereq: STA2023, COP3530 and CAP4104)
- CAP 4104-Human Comptr Interaction
- CAP 4630-Artificial Intelligence (Prereq: COP3530)
- CAP 4641-Nat Lang Processing (Prereq: COP3530)
- CAP 4770-Intro to Data Mining (Prereq: COP3530, Co-req: COP4104)
- CAP 4830-Modeling & Simulations (Prereq: STA2023, COP3530 and COP4104)
- CEN 4021-Software Engineering II (Prereq: CEN4010)
- CEN 4072-Software Testing (Prereq: COP3530)
- COP 4226-Adv Windows Program (Prereq: COP3530)
- COP 4655-Mobile App Dev (Prereq: (CAP4104 and CEN4010) or (CEN3721 and COP4141))

Interdisciplinary Courses
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 on the FIU Undergraduate Catalog @ https://catalog.fiu.edu/ Pending advisor approval.

* Prerequisites:
  - COP2210: MAC1140 or higher level math course
  - COT3100: Pre req MAC XXXX and COP XXXX
  - 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.