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

Choose ONE course

CGS 1920 Intro to Computing (1 credit)

OR

COP 1000 Intro to Programming

OR

IDC1000 Comput Science for Everyone

All courses are 3 credits, except as noted.

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: COP 3530)
- COP 4555-Programming Languages (Prereq: COP 3530)
- COT 3541-Logic for CS (Prereq: COP 3337 & COT 3100)
- COT 4521-Intro to Computational Geometry (Prereq: COP 3530)
- MAD 3305-Graph Theory (Prereq: COP 2210, MAD 2104)
- MAD 3512-Theory of Algorithms (Prereq: COP 3530)
- MHF 4302-Math Logic (Prereq: MAD 3512)

Systems
- CEN 4083-Cloud Computing (Prereq: CNT 4713 and (CDA 3102 or COP 4101))
- CBS 4731-Fund Blockchain Technologies (Prereq: COP 4338)
- CNT 4713-Net Centric Computing (Prereq: COP 4338)
- COP 4530-Intro to Parallel Programming (Prereq: COP 4338 and (CDA 3102 or COP 4101))
- COP 4604-Advanced UNIX Programming (Prereq: COP 4338)
- COP 4710-Database Management (Prereq: COP 3530; Coreq: COP 3530)
- COP 4751-Advanced Database Management (Prereq: COP 4710)
- COP 4431-Advanced Parallel Computing (Prereq: COP 3530 and CDA 3102/CDA 4101)
- CTS 4408-Database Administration (Prereq: COP 4710)

Applications
- CAP 4052-Game Design & Dev (Prereq: STA 2023 or STA 3033 and COP 3530 and CAP 4104)
- CAP 4104-Human Cmptr Interaction (Prereq: COP 3337)
- CAP 4630-Artificial Intelligence (Prereq: COP 3530)
- CAP 4641-Nat Lang Processing (Prereq: COP 3530)
- CAP 4770-Intro to Data Mining (Prereq: COP 3530; Co-req: COP 4710)
- CAP 4630-Modeling & Simulation (Prereq: STA 2023 or STA 3033 and COP 3530)
- CEN 4021-Software Engineering II (Prereq: CSE 3101)
- CEN 4072-Software Testing (Prereq: COP 3530)
- COP 4226-Adv Windows Program (Prereq: COP 3530)
- COP 4655-Mobile App Dev (Prereq: COP 4104 and CEN 4101) or (CEN 3721 and COP 4141)

Prerequisites:
- COP 2210: MAC 1140 or higher level math course
- COT 3100: Pre-req: MAC XXXX and COP XXXX
  (any MAC course and any COP course)
- Coreq: (COP 2210 or COP 2250 or EEL 2280)
- ENC 3249/ENC 3231: UCC English requirements
- MAD 2104: MAC 1105 or MGF 1106

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.

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

Pending advisor approval.

Find minors and certificates in the FIU 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.

Students must take at least one course from each of the following groups:

Group 1:
- COP 3530
- COP 3530
- COP 3530

Group 2:
- COP 3530
- COP 3530
- COP 3530

Group 3:
- COP 3530
- COP 3530
- COP 3530

A minimum of 9 credits must be taken from the groups and the student must complete a minor or minor certificate.

Rev 11/2020

COP4610

MAC1147* or ENC3213* Professional & Technical Writing (GRW)