

(effective Spring 2022)

**Choose ONE course**

**CGS 1920**  
Intro to Computing (1 credit)

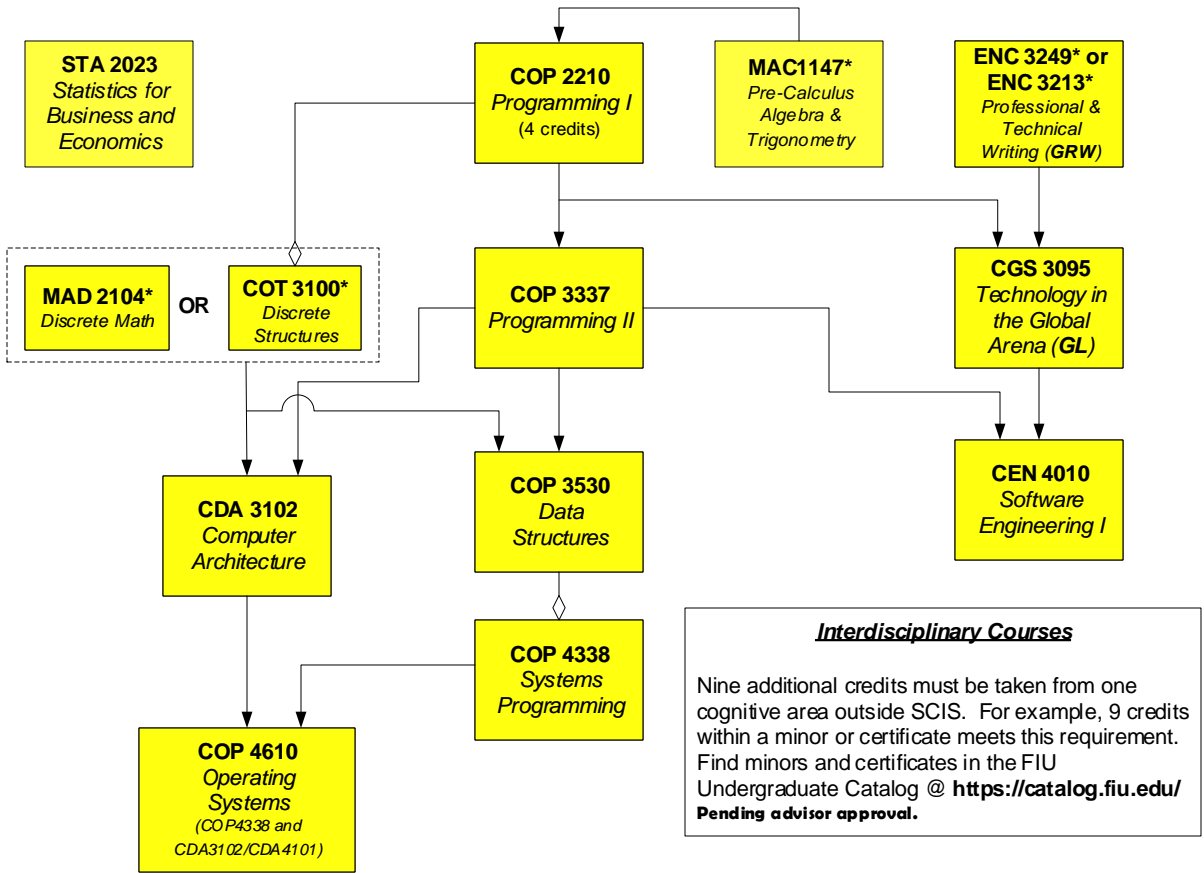
OR

**COP 1000**  
Intro to Programming

OR

**IDC1000**  
Compt Science for Everyone

All courses are 3 credits, except as noted.



**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 in the FIU Undergraduate Catalog @ <https://catalog.fiu.edu/> Pending advisor approval.

**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 3510-Applied Linear Structures (Prereq: see syllabus; Coreq: COT3100 or MAD2104)
  - COT 3541-Logic for CS (Prereq: COP3337 & COT3100)
  - COT 4521-Intro to Computational Geometry (Prereq: COP3530)
  - MAD 3301-Graph Theory (Prereq: COP2210 & (COT3100 or 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))
  - CIS 4731-Fund Blockchain Technologies (Prereq: COP3530)
  - CNT 4713-Net Centric Computing (Prereq: COP4338)
  - COP 4520-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)
  - COT 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 STA3033) and COP3530 and CAP4104)
  - CAP 4104-Human Cmptr Interaction (Prereq: COP3337)
  - CAP 4630-Artificial Intelligence (Prereq: COP3530)
  - CAP 4641-Nat Lang Processing (Prereq: COP3530)
  - CAP 4770-Intro to Data Mining (Prereq: COP3530, Co-req: COP4710)
  - CAP 4830-Modeling & Simulations (Prereq: (STA2023 or STA3033) and COP3530)
  - 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)

\* 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.