Bachelor of Arts in Computer Science
(effective 01/01/2020)

**Foundations**
- CAP 4506 - Intro to Game Theory (Prereq: MAC2312)
- COP 4534 - Algorithm Techniques (Prereq: COP3530)
- COP 4555 - Programming Languages (Prereq: COP3530)
- COT 3541 - Logic for CS (Prereq: COP337 & COT3100)
- COT 4521 - Intro to Computational Geometry (Prereq: COP3530)
- MAD 3305 - Graph Theory (Prereq: COP210, MAC2312)
- MAD 3401 - Numerical Analysis (Prereq: COP210, MAC2312)
- MAD 3512 - Theory of Algorithms (Prereq: COP3530)
- MAD 4203 - Combinatorics (Prereq: MAD2104, MAC2312)
- MHF 4302 - Math Logic (Prereq: MAD3512)

**Systems**
- CDA 4625 - Intro to Mobile Robotics (Prereq: COP3530, STA3033)
- CEN 4083 - Cloud Computing (Prereq: CNT4713, XXXX)
- CNT 4713 - Net Centric Computing (Prereq: COP4338)
- COP 4520 - Intro to Parallel Computing (Prereq: COP4338, XXXX)
- COP 4604 - Advanced UNIX Programming (Prereq: COP4610)
- COP 4711 - Intro to Database Systems (Prereq: COP3530)
- COP 4722 - Survey of Database Systems (Prereq: COP4710)

**Applications**
- CAP 4104 - Human-Cmptr Interaction (Prereq: COP3317)
- CAP 4612 - Intro to Machine Learning (Prereq: COP3330, STA3033)
- CAP 4630 - Artificial Intelligence (Prereq: COP3530)
- CAP 4641 - Nat Lang Processing (Prereq: COP3530)
- CAP 4710 - Computer Graphics (Prereq: COP3337, MAC2312)
- CAP 4770 - Intro to Data Mining (Prereq: COP3337, Co-req: COP4711)
- CEN 4021 - Software Engineering II (Prereq: CEN4010)
- CEN 4072 - Software Testing (Prereq: COP3530)
- COP 4226 - Adv Windows Program (Prereq: COP3530)

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.

**Prerequisites:**
- ENC3249/ENC3213: UCC English requirements
- COP2210: MAC1147 or higher level math course
- COT3100: COP2210 and MAC1147
- MAD2104 & MAC1147: MAC1105

Interdisciplinary Courses
Nine additional credits must be taken outside SCIS. These nine credits must be applicable to a minor or certificate in another discipline. All nine credits must be applicable to the same minor or certificate. 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.