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

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.

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
  - 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: COP3337 & COT3100)
  - COT 4521---Intro to Computational Geometry (Prereq: COP3530)
  - MAD 3305---Graph Theory (Prereq: COP210, MAD2104)
  - MAD 3401---Numerical Analysis (Prereq: COP2210, MAC2312)
  - MAD 3512---Theory of Algorithms (Prereq: COP3530)
  - MAD 4203---Combinatorics (Prereq: MAD2104, MAC2312)
  - MHF 4302---Math Logic (Prereq: MAD3512)

- Systems
  - CAP 4453---Robot Vision (Prereq: COP3530, MAC2312)
  - 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: COP4338)
  - COP 4710---Intro to Database Systems (Prereq: COP3530)
  - COP 4722---Survey of Database Systems (Prereq: COP4710)

- Applications
  - CAP 4104---Human Cmptr Interaction (Prereq: COP3337)
  - CAP 4612---Intro to Machine Learning (Prereq: COP3337, 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, COT3100)
  - CEN 4021---Software Engineering II (Prereq: CEN4010)
  - CEN 4072---Software Testing (Prereq: COP3530)
  - COP 4226---Adv Windows Program (Prereq: COP3530)

* Prerequisites:
  - ENC3249/ENC3213: UCC English requirements
  - MAC2311: MAC1147
  - COT3100 & MAD2104: MAC1105
  - COP2210: MAC1140 or higher level math course

^ Natural Science electives: lab not needed unless required by offering dept.

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.

A junction is where multiple prerequisites are joined.

Pending advisor approval.