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

**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.

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**CS Electives (6 courses):** Must take at least one course from each elective group (most electives are 3 credits).

The 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)

### Systems
- CEN 4083: Cloud Computing (Prereq: CNT 4713 and (CDA 3102 or CDA 4101))
- CNT 4713: Net Centric Computing (Prereq: COP 4338)
- COP 4520: Intro to Parallel Computing (Prereq: COP 4338 and (CDA 3102 or CDA 4101))
- COP 4604: Advanced UNIX Programming (Prereq: COP 4610)
- COP 4710: Intro to Database Systems (Prereq: COP 3530)
- COP 4722: Survey of Database Systems (Prereq: COP 4710)

### Applications
- 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 3337, Co-req: COP 4710)
- CEN 4021: Software Engineering II (Prereq: CEN 4010)
- CEN 4072: Software Testing (Prereq: COP 3530)
- COP 4005: Windows Programming (Prereq: COP 3337, Co-req: COP 4710)
- COP 4226: Advanced Windows Program (Prereq: COP 3530)

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

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.