Minor in Computer Science
(effective 01/01/2020)

COP 2210 (4 credits)  COP 2210L (0 credits)

MAC1147*
Pre-Calculus Algebra & Trigonometry

COT 3100*
Discrete Structures

COT 3100*
Programming I*

MAD 2104*
Discrete Math

COP 3337 Programming II

CDA 3102
Computer Architecture

All courses are 3 credits, except as noted.

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

CS Minor Electives: Choose any 2 electives from all courses listed below (3 credits each)

**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: COT3100 or MAD2104)
- COT 4521-Intro to Computational Geometry
  (Prereq: COP3530)

**Systems**
- CIS 4731-Fund Blockchain Technologies (Prereq: COP3530)
- COP 3530-Data Structures
  (Prereq: COP3537 and
  (MAD2104 or COT3100))
- COP 4338-Systems Programming
  (Coreq: COP3530)
- COP 4520-Introduction to Parallel Computing
  (Prereq: COP3530 and (CDA3102 or CDA4101 or EEL4709))
- COP 4710-Database Management
  (Prereq: cop3337; Coreq: COP3530)
- COT 4431-Applied Parallel Computing
  (Prereq: COP3530 and CDA3102)

**Applications**
- CAP 4104-Human Cmtr Interaction
  (Prereq: COP3337)
- CAP 4630-Artificial Intelligence
  (Prereq: COP3530)
- CAP 4641-Nat Lang Processing
  (Prereq: COP3530)
- CAP 4830-Modeling & Simulations
  (Prereq: STA2023 or STA3033) and COP3530
- CEN 4010-Software Engineering I
  (Prereq: CGS3095 and COP3537)
- CEN 4021-Software Engineering II
  (Prereq: CEN4010)
- CEN 4072-Software Testing
  (Prereq: COP3530)
- COP 4226-Adv Windows Program
  (Prereq: COP3530)

* 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)
  - 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.