**Computer Science 2024-2025**

**Critical Path**

**Pre-Requisite**

**Co-Requisite**

- COP 2500C Concepts in Computer Science (3) OR AP Computer Science A Exam or CS Placement Test

- COP 3223C Intro to Programming with C (3)

- COP 3330 Object Oriented Programming (3)

- COP 3503C Computer Science II (3)

- COP 3502C Computer Science I (3) PR: MAC 1105 or MAC 1140

- COP 3300C Intro to Discrete (3)

- MAC 2311C Calculus I (4) PR: MAC 1105, MAC 1114 and MAC 1140

- MAC 2312 Calculus II (4)

- PHY 2048 PHY 2048L Physics I Lecture and Lab (4)

- PHY 2049 PHY 2049L Physics II Lecture and Lab (4)

- COT 3960 Passed Foundation Exam (0)

- CS students must pass Foundation Exam within one-calendric year from completion of COP 3502 to maintain in the program.

- COP 3402 Systems Software (3)

- COP 3431C Processes for Object-Oriented Software Development (3)

- COP 4934 Senior Design I (3)

- COP 4935 Senior Design II (3)

- COP 4210 Discrete Computational Structures (3)

- STA 2023 Statistical Methods I (3) PR: MAC 1105

- ENC 3241 or ENC 3250 Technical Report Writing (3) PR: ENC 1102

- MAC 2311C Calculus I (4) PR: MAC 1105, MAC 1114 and MAC 1140

- MAC 2312 Calculus II (4)

- COT 3100C Intro to Discrete (3) PR: MAC 2311

- MAP 2302 Differential Equations (3) PR: "C" or better in MAC 2313

- COP 4935 Senior Design II (3)

- COP 4331C Processes for Object-Oriented Software Development (3)

- COP 4934 Senior Design I (3)

- COP 4210 Discrete Computational Structures (3)

- Complete 2 courses from the following:
  - MAP 2302 Differential Equations (3) PR: "C" or better in MAC 2313
  - COP 4331C Processes for Object-Oriented Software Development (3)
  - COP 4934 Senior Design I (3)
  - COP 4935 Senior Design II (3)
  - COP 4210 Discrete Computational Structures (3)

- Complete 2 courses from the following:
  - BSC 2010C Biology I (4) PR: "C" or better in BSC 2010C
  - BSC 2011C Biology II (4) PR: "C" or better in BSC 2011C
  - CHM 2045C Chemistry Fundamentals I (4) PR: Chemistry Placement Exam or CHM 2045C
  - CHM 2046 Chemistry Fundamentals II (3) PR: "C" or better in CHM 2046
  - PHY 3101 Physics for Engineers and Scientists III (3) PR: MAC 2313 and PHY 2049C

- CS Technical Electives (Not Offered in Summer)


- **Overall 2.5 GPA or better required**

**Overall GPA average 2.5 or better required in technical elective specialization area.

All courses require a C or better grade.