**Pre-Requisite**

- MAC 2311C Calculus I (4)
  PR: MAC 1105, MAC 1114, and MAC 1140
- PHY 2048 Physics I Lecture and Lab (4)
  PHY 2048L Physics I Lecture and Lab (4)
- PHY 2049 Physics II Lecture and Lab (4)
  PHY 2049L Physics II Lecture and Lab (4)

**Critical Path**

- COP 2500 Concepts in Computer Science (3) OR A passing score on AP Computer Science A Exam or CS Placement Test
- COP 3223C Intro to Programming with C (3)
- COP 3502C Computer Science I (3) PR: MAC 1105 or MAC 1140
- COP 3503C Computer Science II (3)
- COP 3330 Object Oriented Programming (3)
- COP 3360 Security in Computing (3)
- CDA 3103 Computer Logic & Organization (3)
- COT 3100C Intro to Discrete (3) PR: MAC 2311
- CIS 3360 Security in Computing (3)
- COP 4331C Processes for Object-Oriented Software Development (3)
- COP 4934 Senior Design I (3)
- COP 4935 Senior Design II (3)
- COP 4935C
- COP 4934C
- COT 4210 Discrete Computational Structures (3)
- COT 3960 Passed Foundation Exam (0) PR: COP 3502

**Technical Electives**

- Complete 18 hours of CS technical elective courses.

**Overall GPA average 2.5 or better required**

- 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)
- MAP 2302 Differential Equations (3) PR: "C" or better in MAC 2313
- MAC 2313 Calculus III (4) PR: "C" or better in MAC 2312
- MAS 3105 Matrix and Linear Algebra (4) PR: MAC 2312
- MAS 3106 Linear Algebra (4) PR: COP 3100 and MAS 3105
- MAP 2310 Biology I (4) PR: "C" or better in BSC 2010
- CHM 2045 Chemistry Fundamentals I (4) PR: Chemistry Placement Exam or CHM 2046 Chemistry Fundamentals II (3) PR: "C" or better in CHM 2045 or CHM 2041
- PHY 3101 Physics for Engineers and Scientists III (3) PR: MAC 2313 and PHY 2049C

**Pre-Requisite**

- All courses require a C or better grade.

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