Bachelor of Science in Computer Engineering (Starting with Precalculus)

Required Semester Credit Hours (SCH): 128

See University Catalog

Many core curriculum courses are also offered in the summer (Su). Students are encouraged to register early and check Goldmine for course availability.

The flowchart below may not reflect all student schedules; courses can be shifted to different semesters where applicable.

**Foundational Major Courses**

- **University Core Curriculum**
  - MATH 1508: Precalculus or Math 1310: Trig & Conics
  - HIST 1301: History of U.S. to 1865
  - RWS 1301: Seminar/Critical Inquiry
  - PHYS 2320 & 2120: Introductory Mechanics & Lab
  - MATH 1411: Calculus I

**Freshman Year**

- First Semester (3 SCH)
  - ECE 1300*: Intro to Elec/Comp Eng
  - Lab for ECE 1300
  - CS 1320*: Comp Prog Sci/Engr
  - MATH 1312*: Calculus II

- Second Semester (17 SCH)
  - ECE 2303*: Digital Sys Design I
  - RWS 1302: Econ for Engrs & Scientists
  - PHYS 2321 & 2121: Intro to Electromagnetics & Lab
  - MATH 1326: Calculus II

**Sophomore Year**

- First Semester (17 SCH)
  - ECE 2301*: Electric Circuits I
  - HIST 1302: History of U.S. since 1865
  - MATH 1313*: Matrix Algebra

- Second Semester (16 SCH)
  - ECE 2302: Electric Circuits II
  - RWS 1301: Rhetoric and Comp. I
  - MATH 2326: Discrete Math

**Junior Year**

- First Semester (16 SCH)
  - ECE 3352*: Operating System Design
  - MATH 3323*: Matrix Algebra

- Second Semester (14 SCH)
  - ECE 3351*: Computer Architecture
  - MATH 3335*: Differential Equations

**Senior Year**

- First Semester (16 SCH)
  - ECE 4201: CPE Senior Project Lab I
  - MATH 3320: Advanced Calculus

- Second Semester (16 SCH)
  - ECE 4202: CPE Senior Project Lab II
  - MATH 3322: Advanced Calculus

**Experiential Learning**

- ECE Elective
  - CpE Elective Lab
  - CpE Conc or CPE Elective

- Experiential Learning
  - See University Catalog

**Elective**

- CpE Elective
  - See University Catalog

- CpE Conc or CPE Elective
  - See University Catalog

- ECE Elective
  - See University Catalog

**Capstone**

- CpE Elective Lab
  - CpE Senior Project Lab II

- See University Catalog

- See University Catalog

- See University Catalog

- See University Catalog

The flowchart uses F/Sp/Su to indicate the semesters Fall/Spring/Summer. The dotted line indicates corequisite courses, and the arrow indicates a prerequisite. A colored box indicates a core course.