**Department of Electrical and Computer Engineering**

**Computer Engineering Program – Effective Fall 2022**

### Freshman Year
- **Fall - 15 cr**
  - CH 101 General Chemistry 4 cr
  - MATH 125 Calculus I 4 cr
  - EN 101 English Composition 3 cr
  - HULFA Elective 3 cr

- **Spring – 14 cr**
  - PH 105 General Physics with Calculus I 4 cr
  - MATH 126 Calculus II 4 cr
  - EN 102 English Composition 3 cr
  - OR
  - PH 106 General Physics with Calculus II 4 cr
  - MATH 238 Applied Diff. Equations I 3 cr
  - OR
  - ECE 121 (recommended) or ENGR 111 or other ENG intro courses 1 cr (offered Fall/Spring)
  - OR
  - ECE 103 Engineering Foundations 3 cr
  - MATH 227 Calculus III 4 cr
  - CS 100 Computer Science I 4 cr

### Sophomore Year
- **Fall - 15 cr**
  - MATH 301 Discrete Mathematics 3 cr
  - MATH 237 Introduction to Linear Algebra 3 cr
  - CS 101 Computer Science II 4 cr

- **Spring - 17 cr**
  - ECE 225 Electric Circuits 4 cr (offered Fall/Spring)
  - MATH 355 Theory of Probability 3 cr
  - ECE 308 Microprocessors 4 cr (offered Fall/Spring)

### Junior Year
- **Fall - 17 cr**
  - ECE 370 Signals & Systems 3 cr (offered Fall only)
  - ECE 326 Electric Networks 3 cr (offered Spring only)

- **Spring - 14 cr**
  - ECE 332 Electronics I 4 cr (W) (offered Fall/Spring)
  - ECE 333 Electronics II 4 cr (W) (offered Fall/Spring)

### Senior Year
- **Fall - 16 cr**
  - ECE 408 or ECE 475 or ECE 480 3 cr

- **Spring - 15 cr**
  - ECE 486 Embedded Systems 3 cr (offered Spring only)
  - ECE 487 Embedded Systems Lab 1 cr (offered Spring only)

**Legend:**
- *Prerequisite (with grade of at least C-)
- **Prerequisite with concurrency**
- *Prerequisite may be required, check Catalog
- + Check Catalog for prerequisites, University Core and College Requirements

**Course designation**
- HU = Humanities core elective
- L = Literature core elective
- FA = Fine Arts core elective
- HI = History core elective
- SB = Soc. & Behav. Sci. core elective
- W = Writing core requirement (EN102 prerequisite)

This is an unofficial flowchart for the Computer Engineering Program to assist students in preparing their schedules. The official curriculum and courses will be listed in the current version of The University of Alabama Undergraduate Catalog. The Department may change course prerequisites as appropriate. Students must consult with their advisor prior to registering to ensure correct course sequencing.

**Transfer Note 1:** A maximum of 12 credit hours can be transferred for ECE 300/400-level courses.

**Transfer Note 2:** ECE 492 and ECE 494 must be taken at UA and are not eligible for transfer credit.

**Transfer Note 3:** 4xx-level lecture/lab combos must be taken as a pair (i.e. either both taken off campus at the same institution as a pair or both are taken at UA as a pair).