Department of Electrical and Computer Engineering
Computer Engineering Option – *Effective Spring 2019*

UA ECE

Freshman Year		Sophomore Year		Junior Year		Senior Year	
Fall - 15 cr	Spring – 14 cr	Fall - 15 cr	Spring - 17 cr	Fall - 17 cr	Spring - 14 cr	Fall - 16 cr	Spring - 15 cr

* CH 101 General Chemistry 4 cr

PH 105 General Physics with Calculus I 4 cr

PH 106 General Physics with Calculus II 4 cr

MATH 301 Discrete Mathematics 3 cr

+ HI/SB Elective 3 cr

+ HI/SB Elective 3 cr

+ HU/L/FA Elective 3 cr

+ HI/SB Elective 3 cr

* MATH 125 Calculus I 4 cr

MATH 126 Calculus II 4 cr

MATH 238 Applied Diff. Equations I 3 cr

ECE 225 Electric Circuits 4 cr (offered Fall/Spring)

ECE 370 Signals & Systems 3 cr (offered Fall only)

ECE 332 Electronics I 4 cr (W) (offered Fall/Spring)

ECE 333 Electronics II 4 cr (W) (offered Fall/Spring)

* Restricted Area Elective 3 cr

* ECE 121 (recommended) or ENGR 111 or other ENG intro courses 1 cr (offered Fall/Spring)

* ENGR 103 Engineering Foundations 3 cr

MATH 227 Calculus III 4 cr

MATH 237 Introduction to Linear Algebra 3 cr

MATH 355 Theory of Probability 3 cr

ECE 326 Electric Networks 3 cr (offered Spring only)

ECE 492 Capstone Design I 2 cr (offered Fall/Spring)

ECE 494 Capstone Design II 2 cr (offered Fall/Spring)

EN 101 English Composition 3 cr

EN 102 English Composition 3 cr

CS 100 Computer Science I 4 cr

ECE 380 Digital Logic 4 cr (offered Fall/Spring)

CS 101 Computer Science II 4 cr

CS 201 Data Structures 4 cr

OR

* Restricted Area or Professional Elective 3 cr

+ HU/L/FA Elective 3 cr

+ HU/L/FA Elective 3 cr

ECE 383 Microcomputers 4 cr (offered Fall/Spring)

ECE 408 or ECE 475 or ECE 480 3 cr

ECE 486 Embedded Systems 3 cr (offered Spring only)

ECE 409 or ECE 476 or ECE 481 (Lab must match the lecture) 1 cr

ECE 487 Embedded Systems Lab 1 cr (offered Spring only)

ECE 484 Computer Architecture 3 cr (offered Fall only)

NOTE: No transfer equivalencies will be awarded to ECE courses with labs or ECE 400-level courses as indicted in yellow.

Legend:
→ Prerequisite
‑ ‑▶ Corequisite
* 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 option 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 or corequisites as appropriate. **Students must consult with their advisor prior to registering to ensure correct course sequencing.**

123 total credits