Department of Electrical and Computer Engineering

Computer Engineering Option -- for students starting their college careers Fall 2010 or later

Freshman Year
Fall - 16 cr

- CH 101 – 4 cr
  General Chemistry
- MATH 125
  Calculus I
  4 cr
- ENGR 111
  Eng. For the Future
  1 cr
- EN 101
  English Composition
  3 cr
- ENGR 131
  Eng. Cons. & Des. I
  1 cr
- ENGR 151
  Fund. Eng. Graphics
  1 cr
- HU/L/FA Elective
  3 cr

Sophomore Year
Fall - 15 cr

- PH 105 – 4 cr
  General Physics with Calculus I
- MATH 126
  Calculus II
  4 cr
- ECE 121
  Fund. of ECE I
  1 cr
- ECE 131
  Fund. of ECE II
  1 cr
- CS 160 – 1 cr
  Computer Science Concepts
- MATH 301
  Discrete Mathematics
  3 cr

- PH 106 – 4 cr
  General Physics with Calculus II
- MATH 227
  Calculus III
  4 cr
- ECE 131
  Fund. of ECE II
  1 cr
- ECE 141
  Eng. Cons. & Des. II
  1 cr
- EN 102
  English Composition
  3 cr
- CS 160
  Computer Science Concepts
- MATH 301
  Discrete Mathematics
  3 cr

Junior Year
Fall - 16 cr

- MATH 238
  Applied Diff. Equations I
  3 cr
- ECE 225
  Electric Circuits
  3 cr
- ECE 285
  Programming for ECE
  3 cr
- MATH 355
  Theory of Probability
  3 cr
- ECE 380
  Digital Logic
  4 cr (W)
- CS 260
  Found. of Comp. Sci.
  3 cr
- ECE 383
  Electronics II
  4 cr (W)
- CS 360
  Data Struct. & Algorithms
  4 cr

Senior Year
Fall - 16 cr

- ECE 492
  Capstone Design I
  2 cr
- ECE 480
  Digital Sys. Design
  3 cr
- ECE 484
  Computer Architecture
  3 cr
- HI & SB Elective
  3 cr

- ECE 494
  Capstone Design II
  2 cr
- ECE 481
  Digital Sys. Design Lab
  1 cr
- ECE 486
  Embedded Systems
  3 cr
- HI & L & FA Elective
  3 cr

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

This is an unofficial flow chart 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.