Department of Electrical and Computer Engineering

**Electrical Engineering Program** – 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
  - ECE 121 Fund. of ECE I 1 cr
  - EN 101 English Composition 3 cr
  - ENGR 111 Eng. For the Future 1 cr
  - HUI/LFA Elective 3 cr

- Spring - 15 cr
  - PH 105 – 4 cr General Physics with Calculus I
  - MATH 126 Calculus II 4 cr
  - ECE 127 Fund. of ECE II 1 cr
  - EN 102 English Composition 3 cr
  - ECE 285 Programming for ECE 3 cr

**Sophomore Year**

- Fall - 15 cr
  - PH 106 – 4 cr General Physics with Calculus II
  - MATH 227 Calculus III 4 cr
  - MATH 237 Applied Matrix Theory 3 cr
  - CS 160 – 1 cr Computer Science Concepts
  - HUI/LFA Elective 3 cr

- Spring - 16 cr
  - PH 253 – 3 cr Introduction to Modern Physics
  - MATH 238 Applied Diff. Equations I 3 cr
  - ECE 225 Electric Circuits 3 cr
  - ECE 380 Digital Logic 4 cr
  - ECE Elective 3 cr

**Junior Year**

- Fall - 16 cr
  - ECE 340 Electromagnetics 4 cr
  - MATH 355 Theory of Probability 3 cr
  - ECE 326 Electric Networks 3 cr
  - CS 351 – 2 cr CS Programming III

- Spring - 16 cr
  - PH 301 or ECE 330 or ECE 455 3 cr
  - ECE 370 Signals and Systems 3 cr
  - ECE 332 Electronics I 4 cr (W)
  - HI & SB Elective 3 cr

**Senior Year**

- Fall - 16 cr
  - ECE 492 Capstone Design I 2 cr
  - ECE 333 Electronics II 4 cr (W)
  - ECE 494 Capstone Design II 2 cr

- Spring - 15 cr
  - ECE Elective 3 cr
  - ECE Elective Lab 1 cr
  - ECE Elective Lab 1 cr
  - HI & SB 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 electrical engineering major 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.

May 19, 2010

125 total credits