## Electrical Engineering Student Planning Guide: Fall 2011

## Degree of Bachelor of Science

|  | Fall | Winter | Spring |
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|  | Math 11 Calculus I | Math 12 Calculus II | Math 13 Calculus III |
|  | Chem 11 Chemistry I | Phys 31 Physics for Engineers I | Phys 32 Physics for Engineers II |
|  | Cultures and Ideas I | Cultures and Ideas II | ELEN 21 - Intro to Logic Design |
|  | Critical Thinking and Writing I | University Core (Note 1) | Critical Thinking and Writing II |
|  | Engr 1 Intro. To Engr (1 unit) |  |  |


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|  | CENG 41 Mechanics I | ELEN 50 Circuits I | ELEN 100 Circuits II |
|  | Bio 21 (Note 1) | COEN 44 Applied Programming | ELEN 33 Dig. Syst. Architecture |
|  | Math 14 - Calculus IV | AMTH 106 Differential Equations | COEN 12 Data Structures |
|  | Phys 33 Physics for Engineers III | Phys 34 Physics for Engineers. IV | University Core |


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|  | ELEN 110 Linear Systems | ELEN 151 Semiconductor Devices | AMTH 108 Probability and Stat. |
|  | ELEN 115 Electronic Circuits | MECH 121 Thermodynamics | Technical Elective 2 (Note 2) |
|  | ELEN 104 Electromagnetics | Technical Elective 1 (Note 2) | Professional Development (Note 3) |
|  | University Core | University Core | University Core |
|  |  |  | ELEN 192 Int. to Sr. Design (2 units) |


| . | Fall | Winter | Spring |
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|  | ELEN 194 Design Proj. I (2 units) | ELEN 195 Design Proj. II (2 units) | ELEN 196 Design Proj. (1 units) |
|  | Technical Elective 3 (Note 2) | Technical Elective 4 (Note 2) | Elective |
|  | Elective | Elective | Elective |
|  | Elective | University Core | Elective |
|  | Engl 181 Eng. Comm. (2 units) |  | Engl 182 Eng. Comm. (1 unit) |

## Program Overview:

- UNIVERSITY CORE: 12 courses: Critical Thinking and writing (2), Cultures and Ideas (3), Religion, Theology and Culture (3), Ethics (1), Diversity (1), Advanced Writing (2), Additional courses may be needed for Core Learning Outcomes and Pathway requirement
- ELECTRICAL ENGINEERING PROGRAM: required courses in engineering, science, mathematics, technical electives ( 4 courses), and professional development
- ELECTIVES (as needed) to meet requirements for minimum units, university core, minor, or for personal interest

Courses are color coded to indicate engineering, mathematics and science, humanities, technical elective, and elective Many courses have a corequisite laboratory requiring separate enrollment
One or two unit courses are indicated by italic type
Note 1: Students select either Chem 12 in the Freshman Year or Bio 21 in the Sophomre Year
Note 2: Four Technical Electives are required
Note 3: Professional development is satisfied by one of the following: COOP, Study Abroad, Engr 110, Minor in engineering or science, Combined BS/MS program, 5th technical elective. If a COOP experience is selected for spring, courses other than 192 may be moved to senior year elective slots.

