

# ELECTRICAL ENGINEERING

## Sample Graduation Plan†

| <b>FIRST YEAR</b> |                                    | <b>Semester</b> |           |
|-------------------|------------------------------------|-----------------|-----------|
|                   |                                    | <b>I</b>        | <b>II</b> |
| CHEM 135          | General Chemistry                  | 3               |           |
| PHYS 161          | General Physics                    |                 | 3         |
| MATH 140/141      | Calculus I/II                      | 4               | 4         |
| ENES 100          | Intro/Eng. Design                  | 3               |           |
| ENEE 114          | Programming Concepts for Engineers |                 | 4         |
| CORE‡             | General Education Courses          | 3               | 3         |
| Total Credits     |                                    | 13              | 14        |

### SOPHOMORE YEAR

|                |                                     |    |    |
|----------------|-------------------------------------|----|----|
| MATH 241       | Calculus III                        | 4  |    |
| MATH 246       | Differential Equations              |    | 3  |
| PHYS 260 & 261 | General Physics II                  | 4  |    |
| PHYS 270 & 271 | General Physics III                 |    | 4  |
| ENEE 241       | Numerical Techniques in Engineering | 3  |    |
| ENEE 244       | Digital Logic Design                | 3  |    |
| ENEE 204       | Basic Circuit Theory                |    | 3  |
| ENEE 206       | Digital and Circuits Lab            |    | 2  |
| CORE‡          | General Education Courses           | 3  | 3  |
| Total Credits  |                                     | 17 | 15 |

### JUNIOR YEAR

|               |                                  |    |    |
|---------------|----------------------------------|----|----|
| MATH 4xx*     | Advanced Elective Math           |    | 3  |
| ENEE 303      | Analog and Digital Electronics   | 3  |    |
| ENEE 307      | Electronics Circuits Design Lab  | 2  |    |
| ENEE 313      | Intro. to Device Physics         |    | 3  |
| ENEE 322      | Signal and System Theory         | 3  |    |
| ENEE 324      | Engineering Probability          |    | 3  |
| ENEE 350      | Computer Organization            |    | 3  |
| ENEE 380      | Electromagnetic Theory           | 3  |    |
| ENEE 381      | Electromagnetic Wave Propagation |    | 3  |
| CORE‡         | General Education Courses        | 3  |    |
| Total Credits |                                  | 14 | 15 |

### SENIOR YEAR

|                     |                            |    |    |
|---------------------|----------------------------|----|----|
| Technical Electives | NON-EE technical Electives | 3  | 6  |
| Technical Electives | EE Electives               | 7  | 6  |
| ENGL393             | Junior English             | 3  |    |
| CORE‡               | General Education Courses  | 3  | 3  |
| Total Credits       |                            | 16 | 15 |

† The minimum number of credits required to earn a degree is 120 credits.

\* Must come from the list of course approved for the Non-EE Technical Elective Requirement.

‡ NOTE: Schedule assumes one CORE class satisfies the CORE Cultural Diversity requirement.