

Electrical Engineering Undergraduate Curriculum

First Year – Fall Term

| Course Number | Course Name | Credits |
|---------------|--|---------|
| MATH 0220 | Analytic Geometry & Calculus I | 4 |
| PHYS 0174 | Basic Physics for Sci. & Engineering I | 4 |
| CHEM 0960* | General Chemistry for Engineers I | 3 |
| ENGR 0011 | Intro. To Engineering Analysis | 3 |
| ENGCMP 210 | Seminar in Composition: Engineering | 3 |
| ENGR 0081 | Freshman Engineering Seminar I | 0 |

*CHEM 0110 and 0410 are also acceptable.

First Year – Spring Term

| Course Number | Course Name | Credits |
|---------------|---|---------|
| MATH 0230 | Analytic Geometry & Calculus II | 4 |
| PHYS 0175 | Basic Physics for Sci. & Engineering II | 4 |
| CHEM 0970* | General Chemistry for Engineers II | 3 |
| ENGR 0012 | Intro. To Engineering Computing | 3 |
| ENGCMP 412** | Seminar in Composition: Engineering | 3 |
| ENGR 0082 | Freshman Engineering Seminar II | 0 |

*CHEM 0120 and 0420 are also acceptable.

** This course will satisfy the writing requirement for students.

Sophomore Year – Fall Term

| Course Number | Course Name | Credits |
|---------------|----------------------------------|---------|
| ECE 0101 | Linear Circuits & Systems + Lab | 4 |
| ECE 0201 | Digital Circuits & Systems + Lab | 4 |
| ECE 0301 | ECE Problem Solving with C++ | 3 |
| ECE 0401 | ECE Analytical Methods | 3 |
| | Communication Skills Elective | 3 |
| ECE 1885 | Departmental Seminar | 0 |

Sophomore Year – Spring Term

| Course Number | Course Name | Credits |
|---------------|---|---------|
| ECE 0102 | Microelectronic Circuits + Lab | 4 |
| ECE 0202 | Embedded Processors & Interfacing + Lab | 4 |
| ECE 0302 | Data Structures & Algorithms | 3 |
| ECE 0402 | Signals, Systems & Probability | 3 |
| | Humanities/Social Science Elective | 3 |
| ECE 1885 | Departmental Seminar | 0 |

Electrical Engineering Undergraduate Curriculum

Junior Year – Fall Term

| Course Number | Course Name | Credits |
|---------------|--|---------|
| MATH 240 | Analytic Geometry & Calculus III | 4 |
| ECE 1212 | Electronic Circuit Design Lab | 3 |
| ECE 1560 | Digital Signal Processing | 3 |
| ECE 1701 | Fundamentals of Electric Power Engineering | 3 |
| | Humanities/Social Science Elective | 3 |
| ECE 1885 | Departmental Seminar | 0 |

Junior Year – Spring Term

| Course Number | Course Name | Credits |
|---------------|------------------------------------|---------|
| ECE 1895 | Junior Design Fundamentals | 3 |
| ECE 1673 | Linear Control Systems | 4 |
| ECE 1259 | Electromagnetics | 3 |
| ECE 1247 | Semiconductor Device Theory | 3 |
| | Humanities/Social Science Elective | 3 |
| ECE 1885 | Departmental Seminar | 0 |

Senior Year – Fall Term

| Course Number | Course Name | Credits |
|---------------|------------------------------------|---------|
| | ECE Elective | 3 |
| | ECE Elective | 3 |
| | ECE Elective | 3 |
| | Technical Elective | 3 |
| | Humanities/Social Science Elective | 3 |
| ECE 1885 | Departmental Seminar | 0 |

Senior Year – Spring Term

| Course Number | Course Name | Credits |
|---------------|-----------------------|---------|
| ECE 1896 | Senior Design Project | 3 |
| | ECE Elective | 3 |
| | Technical Elective | 3 |
| | Technical Elective | 3 |
| | Open Elective | 3 |
| ECE 1885 | Departmental Seminar | 0 |