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Electrical Engineering, B.S.E.E.



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Degree Awarded: Bachelor of Science in Electrical Engineering

Total Credit Hours: 127

Career Opportunities: Utilities companies, architectural or engineering firms, aeronautical/aerospace or automotive industries, computer firms, consumer product agencies, oceanography, transportation industry

Note(s): A grade of "C" or better is required in all major department (EECE) and engineering courses that are used toward the degree.

A minimum of 2.0 cumulative average (major GPA) is required on all hours attempted in the major department (EECE) and engineering courses that apply toward the degree.

Students are responsible for completing all course prerequisites before enrolling in a course.

General Education Core Curriculum, Electrical Engineering

Core Curriculum

Freshman Year

Required Courses

- UNIV 100 – First Year Seminar **3 Credit Hour(s)**
- CMPS 150 – Introduction to Computer Science **3 Credit Hour(s)**
- EECE 140 – Computer Engineering **3 Credit Hour(s)**
- EECE 240 – Digital Systems **3 Credit Hour(s)**
- ENGL 101 – Introduction to Academic Writing **3 Credit Hour(s)**
- ENGL 102 – Writing and Research About Culture **3 Credit Hour(s)**
- MATH 270 – Calculus I **4 Credit Hour(s)**
- MATH 301 – Calculus II **4 Credit Hour(s)**
- PHYS 201 – General Physics I **4 Credit Hour(s)**

Elective

History (3 Credits)

Choose from the [General Education Core](#) list of History courses in consultation with advisor.

Total: 33 Credits

Sophomore Year

Required Courses

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- CMPS 260 – Introduction to Data Structures and Software Design **3 Credit Hour(s)**
 - EECE 233 – Telecommunications **3 Credit Hour(s)**
 - EECE 260 – Computational Methods in Electrical Engineering **1 Credit Hour(s)**
 - EECE 340 – Microprocessors **3 Credit Hour(s)**
 - EECE 342 – Microprocessor Lab **1 Credit Hour(s)**
 - EECE 355 – Circuits and Signals I **4 Credit Hour(s)**
 - EECE 356 – Circuits and Signals II **4 Credit Hour(s)**
 - ENGR 218 – Statics and Strength of Materials **3 Credit Hour(s)**
 - MATH 302 – Calculus III **4 Credit Hour(s)**
 - MATH 350 – Differential Equations **3 Credit Hour(s)**
 - PHYS 202 – General Physics II **4 Credit Hour(s)**

Elective

Biology (3 Credits)

Choose in consultation with advisor.

Total: 36 Credits

Junior Year

Required Courses

- EECE 335 – Physical Electronics I **3 Credit Hour(s)**
- EECE 344 – Engineering Electromagnetics **3 Credit Hour(s)**
- EECE 353 – Electronic Circuits **4 Credit Hour(s)**
- EECE 380 – Random Processes for Electrical Engineering **3 Credit Hour(s)**
- EECE 444 – Circuits and Signals III **3 Credit Hour(s)**
- EECE 447 – Electrical Machines and Power **3 Credit Hour(s)**
- EECE 452 – Communications Engineering I **3 Credit Hour(s)**
- EECE 461G – Control Systems **3 Credit Hour(s)**

Electives

Electrical Engineering (3 Credits)

Choose from the Department of Electrical Engineering approved list of electives.

Electrical Engineering Lab (1 Credit)

Choose from the Department of Electrical Engineering approved list of electives.

Natural Sciences Lab (1 Credit)

Choose from the Department of Electrical Engineering approved list of electives.

Total: 30 Credits

Senior Year

Required Courses

- ECON 430G – Industrial Economics and Finance **3 Credit Hour(s)**
- EECE 423 – Seminar I **1 Credit Hour(s)**
- EECE 443 – Design Lab I **2 Credit Hour(s)**
- EECE 460 – Design Lab II **1 Credit Hour(s)**
- ENGL 365 – Technical Writing **3 Credit Hour(s)**

Electives

Electrical Engineering (9 Credits)

Choose from the Department of Electrical Engineering approved list of electives.

Social/Behavioral Sciences (3 Credits)

Choose ECON 300 or in consultation with advisor.

English Literature (3 Credits)

Choose from the General Education Core list of Literature courses in consultation with advisor.

Fine Arts (3 Credits)

Choose from the General Education Core list of Fine Arts courses.

Total: 28 Credits

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