

## **BS IN ELECTRICAL ENGINEERING DEGREE REQUIREMENTS**

### **General Education Requirements**

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#### **English**

- ENGL 1157 - English Composition 1 - **Credits: 3**
  
- ENGL 1158 - English Composition 2 - **Credits: 3**  
OR
- ENGL 1159 - English Composition 2 Honors - **Credits: 3**<sup>1</sup>

#### **Mathematics**

- MATH 2114 - Calculus I - **Credits: 4**<sup>3</sup>
- MATH 2124 - Calculus II - **Credits: 4**<sup>3</sup>

#### **Science**

- BIOS **Credits: 3**
- PHYS 1061 - Physics Sci Engr I - **Credits: 3**
- PHYS 1062 - Physics Sci Engr II - **Credits: 3**

#### **Humanities**

- ENGL 2152 - Technical Writing - **Credits: 3**
- ENGL Literature **Credits: 3**
- Humanities Elective **Credits: 3**<sup>2</sup>

#### **Social Sciences**

- ECON 1203 - Principles of Microeconomics - **Credits: 3**  
OR
- ECON 1330 - Financial Literacy - **Credits: 3**
- Social Science Elective (ANTH, ECON, GEOG, POLI, PSYC, SOC, URBN) **Credits: 3**

#### **Arts**

- (Fine Arts, Music, FTA except FTA 2650, 2660) **Credits: 3**

**Total Credit Hours: 39**

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### **Other Requirements**

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- CHEM 1017 - General Chemistry I - **Credits: 3**
- ENEE 1530 - Engineering Software Tools - **Credits: 3**
- ENEE 2530 - EE Software Tools - **Credits: 3**
- ENEE 2510 - Circuits Laboratory - **Credits: 1**
- ENEE 2550 - Circuits I - **Credits: 3**
- ENEE 2551 - Circuits II - **Credits: 3**
- ENEE 2582 - Digital System Design - **Credits: 3**
- ENEE 2586 - Digital Systems Laboratory - **Credits: 2**
- MATH 2134 - Calculus III - **Credits: 4**
- MATH 3511 - Intro to Linear Algebra - **Credits: 3**
- PHYS 1063 - Physics Lab for Science & Engr - **Credits: 1**
- PHYS 1065 - Physics Lab for Science & Engr - **Credits: 1**
- PHYS 3064 - Modern Physics - **Credits: 3**
- PHIL 2244 - Engineering Ethics - **Credits: 1**
- MATH 2221 - Elem Differential Equations - **Credits: 3**

**Total Credit Hours: 39**<sup>4</sup>

## Course Requirements for Major

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- ENGR 3090 - Senior Seminar **Credits: 1**
- ENEE 3517 - Engr Electronics Lab - **Credits: 1**
- ENEE 3540 - Engineering Electronics - **Credits: 3**
- ENEE 3543 - Engineering Electronic Systems - **Credits: 3**
- ENEE 3530 - Cont & Discrete Sig Syst Analy - **Credits: 3**
- ENEE 3572 - Prob Meth Signal Sys Analysis - **Credits: 3**
  
- ENEE 3587 - Microcontroller Interfacing - **Credits: 4**  
OR (only choice for ENEE with no concentration – both required for students with Computer Engr Concentration)
- ENEE 3582 - Digital Design Using Micros - **Credits: 3** and
- ENEE 3512 - Microprocessor Design Lab - **Credits: 1**  
(ENE E with no concentration choose both options or at least one of the two options and another 4 hours of ENEE electives)
  
- ENEE 3583 - Computer System Design - **Credits: 3** (For Computer Engr Concentration)  
OR
- ENEE 3533 - Classical Control Sys Design - **Credits: 3** (For ENEE without concentration)
  
- ENEE 4091 - Senior Elec Eng Design Project - **Credits: 1**
- ENEE 4092 - Senior Elec Eng Design Project - **Credits: 3**
- ENEE Electives (3xxx or 4xxx) **Credits: 9**
  
- ENEE Elective **Credits: 3** (For ENEE without Concentration)  
OR
- ENEE or CSCI Elective **Credits: 3** (For ENEE with Computer Engr Concentration)
  
- MATH 3721 - Intro to Discrete Structures - **Credits: 3** (For ENEE with Computer Engr Concentration)  
OR
- ENEE 3560 - Engineering Electromagnetics I - **Credits: 3** (For ENEE without concentration)

**Total Credit Hours: 44**

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**Total Credit Hours Required: 122**

1. "C" or better required
2. Check [General Education Courses](#) to confirm what courses fulfill this requirement.
3. 6 credits of Math satisfy the General Education requirements. Check [General Education Courses](#) to confirm what courses fulfill this requirement.
4. Includes 2 credits of Math listed in General Education requirements section
5. Required courses for Electrical Engineering Degree with Computer Engineering concentration
6. Required courses for Electrical Engineering Degree with no concentration

**A minimum grade of C or better is required in MATH 2124, ENEE 2550, ENEE 2551, and ENEE 3530.**