# ELECTRICAL ENGINEERING, BSEE

## Requirements for Students Matriculating in or before Academic Year 2019-2020

Learn more about University Academic Regulation 3.1 ([http://catalog.okstate.edu/university-academic-regulations/#matriculation](http://catalog.okstate.edu/university-academic-regulations/#matriculation)).

**Minimum Overall Grade Point Average:** 2.00  
**Total Hours:** 123

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1113</td>
<td>Composition I ($^1,^2$)</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 3323</td>
<td>Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1103</td>
<td>Survey of American History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 1483</td>
<td>American History to 1865 (H)</td>
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<tr>
<td>HIST 1493</td>
<td>American History Since 1865 (DH)</td>
<td></td>
</tr>
<tr>
<td>POLS 1113</td>
<td>American Government</td>
<td>3</td>
</tr>
<tr>
<td>MATH 2144</td>
<td>Calculus I (A) ($^2$)</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2153</td>
<td>Calculus II (A) ($^2$)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 2163</td>
<td>Calculus III ($^2$)</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 1414</td>
<td>General Chemistry for Engineers (LN) ($^2$)</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 2014</td>
<td>University Physics I (LN) ($^2$)</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2233</td>
<td>Differential Equations ($^2$)</td>
<td>3</td>
</tr>
<tr>
<td>ENGR 1111</td>
<td>Introduction to Engineering ($^2$)</td>
<td>1</td>
</tr>
<tr>
<td>ENSC 2113</td>
<td>Statics ($^2$)</td>
<td>3</td>
</tr>
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**General Education Requirements**  
All General Education coursework requirements are satisfied upon completion of this degree plan.

- **English Composition**
- **American History & Government**
- **Analytical & Quantitative Thought (A)**
- **Humanities (H)**
- **Natural Sciences (N)**

**College/Departmental Requirements**  
**Basic Science**
- PHYS 2114 | University Physics II (LN) ($^2$) | 4     |
- PHYS 3313 | Introduction to Semiconductor Device Physics | 3     |

**Mathematics**
- MATH 2233 | Differential Equations ($^2$) | 3     |

**Engineering**
- ENGR 1111 | Introduction to Engineering ($^2$) | 1     |

**Controlled Electives**  
Select 3 hours of the following technical electives:  
- ENSC 2123 | Elementary Dynamics | 3     |
- ENSC 2143 | Strength of Materials | 3     |
- ENSC 2213 | Thermodynamics | 3     |

**Electrical Engineering**
- ECEN 2714 | Fundamentals of Electric Circuits ($^2$) | 4     |
- ECEN 3233 | Digital Logic Design ($^2$) | 3     |

**Electrical & Computer Engineering**
- MATH 3013 | Linear Algebra (A) | 3     |

- Select five ECEN or other courses selected from combinations on the departmentally approved list, including optionally one or more courses listed, but not taken, from the ECEN Junior Elective list above, and with advisor approval.  
  **Hours Subtotal:** 48

**Total Hours:** 123

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1. If a "B" or higher is not earned in ENGL 1113 Composition I, ENGL 1213 Composition II or ENGL 1413 Critical Analysis and Writing II is also required (per Academic Regulation 3.5 [http://catalog.okstate.edu/university-academic-regulations/#english-composition]).
2. Courses that must be completed prior to admission to professional school.
3. A minimum GPA of 2.20 is required in all courses applied to Major Requirements.
Other Requirements

Admission to Professional School (required)
• Earn a grade of "C" or better in technical courses required for the
degree and taken prior to admission to professional school. In these
technical courses, meet or exceed the Technical GPA requirement
listed in the Departmental GPA Requirements of the General Catalog.
Note: Technical courses include astronomy, biology, biochemistry,
chemistry, geology, engineering (BAE, CHE, CIVE, IEM, ECEN, ENGR,
ENSC, MAE), math, physics, statistics, zoology, and any additional
science courses listed on this degree requirement sheet.
• Refer to the OSU Catalog corresponding to your matriculation date for
detailed admissions requirements.

Graduation Requirements
1. A minimum GPA of 2.00 is required in all courses applied to Major
Requirements including ENGL 3323 Technical Writing, 3 hours of (S),
and 6 hours of (H).
2. The major engineering design experience, capstone course, is
satisfied by ECEN 4013 Design of Engineering Systems and
ECEN 4024 Capstone Design.

Additional State/OSU Requirements
• At least: 60 hours at a four-year institution; 30 hours completed at
OSU; 15 of the final 30 or 50% of the upper-division hours in the major
field completed at OSU.
• Limit of: one-half of major course requirements as transfer work; one-
fourth of hours earned by correspondence; 8 transfer correspondence
hours.
• Students will be held responsible for degree requirements in effect at
the time of matriculation and any changes that are made, so long as
these changes do not result in semester credit hours being added or
do not delay graduation.
• Degrees that follow this plan must be completed by the end of
Summer 2025.