Program pending OSRHE approval for the 2020-2021 Academic Year

Minimum Overall Grade Point Average: 2.00
Total Hours: 124

### Code | Title | Hours
--- | --- | ---
ENGR 1111 | Introduction to Engineering | 1
ENSC 2113 | Statics (With a grade of 'C' or better) | 3
ENSC 2611 | Electrical Fabrication Lab (With a grade of 'C' or better) | 1
ECEN 3213 | Computer Based Systems in Engineering (With a grade of 'C' or better) | 3
CS 1113 | Computer Science I (A) (With a grade of 'C' or better) | 3
CS 2433 | C/C++ Programming (With a grade of 'C' or better) | 3
### Hours Subtotal | 24
### Major Requirements

#### Mathematics

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
</table>
| MATH 3013 | Linear Algebra (A) (With a grade of 'C' or better) | 3

#### Electrical & Computer Engineering

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
</table>
| ECEN 3314 | Electronic Devices and Applications | 4
| ECEN 3513 | Signal Analysis | 3
| ECEN 3613 | Applied Fields and Waves I | 3
| ECEN 3714 | Network Analysis (With a grade of 'C' or better) | 4
| ECEN 3903 | Introduction to Semiconductor Devices (With a grade of 'C' or better in ECEN 3903 or PHYS 3313) | 3
| or PHYS 3313 | Introduction to Semiconductor Device Physics | 3

#### Industrial Engineering & Management

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
</table>
| IEM 3503 | Engineering Economic Analysis | 3

#### ECEN Junior Electives

Select one of the following with advisor approval:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
</table>
| ECEN 3723 | Systems I | 3
| ECEN 3913 | Solid State Electronic Devices | 3

#### ECEN Electives

Select Six 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 | 54

### Controlled Electives

Select 3 hours of the following controlled electives:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
</table>
| ENSC 2123 | Elementary Dynamics | 3
| ENSC 2143 | Strength of Materials | 3
| ENSC 2213 | Thermodynamics | 3

Engineering courses 3000 level and above
Other courses such as MATH, CS, STAT, etc., may be approved by advisor

<table>
<thead>
<tr>
<th>Hours Subtotal</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Hours</td>
<td>124</td>
</tr>
</tbody>
</table>

1 If a “B” or higher is not earned in ENGL 1113 Composition I or ENGL 1313 Critical Analysis and Writing I, then 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)).

Graduation Requirements

1. A minimum Technical GPA of 2.00. The Technical GPA is calculated from all courses in the curriculum with a prefix belonging to the degree program, or substitutions for these courses.
2. A ‘C’ or better in courses listed above as requiring a C or better.
3. 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 2026.