B.S. Electrical & Computer Engineering  
Electrical Engineering

Marion Campus

Student Information
Name: ___________________  OSU ID: ___________________  OSU Admit Term: __________
Phone: ___________________  Email (name.number@osu.edu): ___________________

Suggested Curriculum
This should be used as a guide only. Semester offerings are subject to change.

<table>
<thead>
<tr>
<th>Year</th>
<th>Autumn</th>
<th>Spring</th>
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<tbody>
<tr>
<td>1</td>
<td>EXPLORATION 1100.01 (Survey) 1 hr</td>
<td>ENGR 1182 (Fundamentals of Engr 2) 2 hr</td>
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<tr>
<td></td>
<td>ENGR 1181 (Fundamentals of Engr 1) 2 hr</td>
<td>MATH 1172 (Engineering Math A) 5 hr</td>
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<td>MATH 1151 (Calculus I) 5 hr</td>
<td>PHYSICS 1251 (E&amp;M, Optics, Modern Phys) 5 hr</td>
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<td>PHYSICS 1250 (Mechanics, Thermal, Waves) 5 hr</td>
<td>CSE/ENGR 1222 (Intro Prog in C/C++) 3 hr</td>
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<td>General Education 3 hr</td>
<td>General Education 3 hr</td>
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<td></td>
<td><strong>TOTAL 16 hr</strong></td>
<td><strong>TOTAL 18 hr</strong></td>
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Students who transition to Columbus Campus after taking these classes during their first year can reasonably project they will graduate with a B.S. in Electrical and Computer Engineering in a total of 4 years.

Math Note: Students starting in MATH 1150 will need to take MATH 1172 during the summer between their first and second years in order to reasonably project they will graduate with a B.S. in Electrical and Computer Engineering in a total of 4 years.

General Education Note: Students should plan on taking ENGLISH 1110.01 during their first year.

| 2    | CHEM 1250 (Chemistry for Engineers) 4 hr | STAT 3470 (Prob & Stats for Engineers) 3 hr |
|      | MATH 2568 (Linear Algebra) 3 hr | ECE 2100 (Electrical & Computer Engr 2) 4 hr |
|      | ECE 2000 (Electrical & Computer Engr I) 4 hr | ISE 2040 (Engineering Economics) 2 hr |
|      | MECHENG 2010 (Statics)** 2 hr | MECHENG 2020/2030 (Statics/Mech of Mat)** 3 hr |
|      | General Education 3 hr | General Education 3 hr |
|      | **TOTAL 16 hr** | **TOTAL 15 hr** |

**These courses are approved Directed Electives for the Electrical Engineering program of study.

Note: Students who transition to Columbus Campus after taking these classes during their second year and are admitted to the major (details below) can reasonably project they will graduate with a B.S. in Electrical and Computer Engineering in a total of 4 years.

Acceptance Criteria
Acceptance into this program is based on a cumulative point our ratio (CPHR) of 2.0 or greater; an eligibility point hour ratio (EPHR) of 2.7 or greater calculated over the following courses (or their equivalents): Math 1151 and 1172, Engineering 1181 and 1182, Physics 1250 and 1251, Chemistry 1250, and CSE 1222; and successful completion of Engineering 1100 and a University survey course. Alternately, if CPHR is 3.0 or greater (increasing to 3.2 for 2015-2016) after completion of these courses the EPHR is not used and the applicant will be admitted. Applications are accepted every academic term (Autumn, Spring, Summer). Information about apply to the major including applications can be found online at https://advising.engineering.osu.edu/current-students/applying-your-major.
Technical and Directed Electives
At least 16 hours of the Electives must be ECE Technical Electives.
- Must take a concentration of 6 hours in one of the 7 domains.
- Must take at least 3 hours in each of two other domains.
- Must include at least one 5000 level ECE Technical Elective.
- At least two ECE Technical Elective courses must be labs.

Up to 15 hours of the Electives may be Directed Electives from the ECE approved list. Directed Electives generally include: courses required for entry into other engineering majors; required and technical elective courses in other engineering majors; pre-med courses; business or entrepreneurship courses; math, statistics, physics and chemistry courses at higher level than required in the ECE core; and other physical science or biological science courses. For physical science or biological science courses a maximum of 7 hours numbered below 2000 may be counted as Directed Electives. (https://ece.osu.edu/currentstudents/undergrad/forms)

General Education Requirement

Writing and Communication
- English 1110.xx 3 hr
- Second Writing Course 3 hr

Social Science
- Only one course per Social Science group may count.
- 3 hr
- 3 hr

Literature
- 3 hr

Visual and Performing Arts
- 3 hr

Historical Study
- 3 hr

Second Historical Study or Cultures and Ideas
- 3 hr

Social Diversity in the U.S. or Global Diversity
- Some courses may overlap with another GE category. See course list.
- 0 / 3 hr

Ethics
- Some courses may overlap with another GE category. See course list.
- 0 / 3 hr

Foreign Language
- Pre-approved substitutions
  A. Credit (including EM) for a foreign language sequence through 1103, or credit for a foreign language course with a prerequisite of 1103, can be substituted for one Gen Ed course requirement as a Cultures & Ideas.
  B. Completion of a foreign language minor can be substituted for two Gen Ed courses: one course as a Social Science, (Individuals & Groups or Organizations & Politics subgroups only) and one course as either a Literature or a Cultures & Ideas.

Parameters: Students must choose either Substitution A OR Substitution B. Both substitutions cannot be applied simultaneously.

University Capstone (Cross-Disciplinary Seminar)
- Pre-approved substitutions
Completion of a Social Science 3597 or 4597 can be substituted for a Social Science general education course in any group. Completion of an Arts & Humanities 3597 or 4597 can be substituted for a Visual/Performing Arts general education course. See the list of approved general education courses for additional details: www.engineering.osu.edu/major