**Suggested Course Plan**

The anticipation at OSU and most institutions of higher education is that for one semester credit hour (SCH) the student spends one hour per week in lecture (two for lab courses) and two hours studying outside of class (one for lab courses). A three credit hour class requires about nine hours per week. This study plan is recommended for students who will devote full time to university studies and do not have excessive extracurricular activities or other obligations.

### Semester 1

<table>
<thead>
<tr>
<th>Course Name</th>
<th>Lecture/Lab</th>
<th>Course Number</th>
<th>Prerequisites*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Comp. Science I</td>
<td>2/2</td>
<td>CS 1113</td>
<td></td>
</tr>
<tr>
<td>Intro to Engr</td>
<td>1/0</td>
<td>ENGR 1111</td>
<td></td>
</tr>
<tr>
<td>Calculus I</td>
<td>4/0</td>
<td>MATH 2144</td>
<td></td>
</tr>
<tr>
<td>Gen Chemistry</td>
<td>3/2, Note 1</td>
<td>CHEM 1414</td>
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<tr>
<td>Freshman Comp I</td>
<td>3/0, Note 2</td>
<td>ENGL 1113</td>
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### Semester 2

<table>
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<th>Lecture/Lab</th>
<th>Course Number</th>
<th>Prerequisites*</th>
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</thead>
<tbody>
<tr>
<td>C/C++ Prog</td>
<td>3/0</td>
<td>CS 2433</td>
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<tr>
<td>Digital Logic Des</td>
<td>2/2</td>
<td>MATH 2153</td>
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</tr>
<tr>
<td>Calculus II</td>
<td>3/0, Note 5</td>
<td>MATH 2153</td>
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</tr>
<tr>
<td>Comp Based Systems</td>
<td>2/2</td>
<td>ECEN 3213</td>
<td></td>
</tr>
<tr>
<td>American Gov't</td>
<td>3/0</td>
<td>POLS 1113</td>
<td></td>
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<tr>
<td>UNIX Prog</td>
<td>1/0</td>
<td>CS 2351</td>
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### Semester 3

<table>
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<th>Lecture/Lab</th>
<th>Course Number</th>
<th>Prerequisites*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diff Equations</td>
<td>3/0</td>
<td>MATH 2233</td>
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</tr>
<tr>
<td>General Physics I</td>
<td>3/2, Note 5</td>
<td>PHYS 2114</td>
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</tr>
<tr>
<td>Fund Elec Circuits</td>
<td>3/2, Note 4,7</td>
<td>ECEN 2714</td>
<td></td>
</tr>
<tr>
<td>Discrete Math</td>
<td>3/0</td>
<td>MATH 2153</td>
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<tr>
<td>Elect Fab Lab</td>
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<td>ENSC 2611</td>
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### Semester 4

<table>
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<th>Lecture/Lab</th>
<th>Course Number</th>
<th>Prerequisites*</th>
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</thead>
<tbody>
<tr>
<td>Calculus III</td>
<td>3/0</td>
<td>MATH 2163</td>
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<tr>
<td>Intro Semicon Dev</td>
<td>3/0</td>
<td>ECEN 2714</td>
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<tr>
<td>Network Analysis</td>
<td>3/2</td>
<td>ECEN 3714</td>
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<tr>
<td>Comp Based Systems</td>
<td>2/2</td>
<td>ECEN 3213</td>
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</tr>
</tbody>
</table>

### Notes:

1. CHEM 1515 may be substituted for CHEM 1414 and should be taken by all students considering medical school.
2. Students with less than a “B” in ENGL 1113 or 1313 must take ENGL 1213 or 1413 prior to ENGL 3323.
3. A total of at least 6 hours designated “H” and 3 hours designated “S” are required. Of these, 3 hrs must meet the International Dimension “I” component and 3 hrs must meet the Diversity “D” component.
4. MATH 2214 replaces ENSC 2611 effective fall 2018.
5. General Physics I and II are key prerequisites and should be taken at the earliest possible time.
6. Must be at least 3 SCH.
7. MATH 2233 and PHYS 2114 must be taken prior to or at the same time as ECEN 2714.
8. Either CS 4323 or ECEN 4283 (if not previously used) is acceptable. Refer to the CpE Course Advising Sheet.
Computer Engineering Course Plan (CpE)

Semester 5
16 Credit Hours
- ENGL 3323 Technical Writing
  3/0
- ECEN 4013
- ENGL 1113
- ECEN 3613 Appl Fields and Waves
  3/0
- ECEN 3714 MATH 2163
- ECEN 3314 Electr Dev & Appl
  3/2
- ENSC 2611 ECEN 3714 ECEN 3903
- ECEN 3513 Signal Analysis
  3/0
- ECEN 3903
- CS 3353 Data Structures
  3/0

Semester 6
15 Credit Hours
- IEM 3503 Engr Economics
  3/0
- ECEN 4503 Random Signals
  3/0
- ECEN 4243 Comp Arch
  3/0
- MATH 3013 Linear Algebra
  3/0
- "H" Elective (3)
  Note 3,6

Semester 7
15 Credit Hours
- ECEN 4013 Design Engr Sys
  2/2
- ECEN 4213 Emb Comp Sys
  2/2
- "S" Elective (3)
  Note 3,6

Semester 8
16 Credit Hours
- ECEN 4024 Capstone Design
  0/8
- Controlled Elective (3)
  Note 6

Note
- Variance in credit hours.
- ECEN Elective (3)
  Note 6
- CS 4323 Op Systems
  3/0, Note 8
- ECEN Elective (3)
  Note 6
- "H" Elective (3)
  Note 3,6

• This flowchart represents one path of many to graduation. Students are not required to follow the chart, but prerequisites limit path options.
• This flowchart is only an advising instrument. When conflicts occur, the official 2022-2023 Degree Requirement Sheet takes precedence. Always check for the most current version of this flowchart.
• Be sure to pay careful attention to the prerequisite requirements, grade requirements, and other official information on Banner. Some prerequisites also have minimum grade requirements. Grade requirements are not shown on this flowchart.
• Consult your Advisor if you have any questions or need clarification.