Bachelor of Science in Electrical Engineering  
Environmental Applications concentration (18 cr)

This suggested plan applies to students entering in Academic Year 2018-2019 who are ready for calculus.

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH1150 &amp; 1151</td>
<td>Univ. Chemistry I &amp; Lab I</td>
</tr>
<tr>
<td>CH1153</td>
<td>Prob. Solv. Chem. I, optional</td>
</tr>
<tr>
<td>ENGI101</td>
<td>Engineering Analysis</td>
</tr>
<tr>
<td>MA1160</td>
<td>Calculus with Technology I</td>
</tr>
<tr>
<td>UN1015</td>
<td>Composition</td>
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<tr>
<td>PH2100</td>
<td>Univ. Physics I - Mechanics</td>
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<tr>
<td>PH1100</td>
<td>Physics Lab I</td>
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<tr>
<td>ENGI102</td>
<td>Engineering Modeling &amp; Design</td>
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<tr>
<td>MA2160</td>
<td>Calculus with Technology 2</td>
</tr>
<tr>
<td>EE1110</td>
<td>Essential Math for EE's</td>
</tr>
<tr>
<td>EE1111</td>
<td>Intro. to Elec. &amp; Comp. Engg.</td>
</tr>
<tr>
<td>UN1025</td>
<td>Global Issues</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>Total</strong></td>
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<td><strong>14/15</strong></td>
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<table>
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<tr>
<th>Semester 3</th>
<th>Semester 4</th>
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<tbody>
<tr>
<td>MA2321</td>
<td>Linear Algebra</td>
</tr>
<tr>
<td>MA3521</td>
<td>Differential Equations</td>
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<tr>
<td>EE 2111</td>
<td>Electrical Circuits I</td>
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<tr>
<td>CS1111</td>
<td>Intro to Programming in C/C++</td>
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<tr>
<td>PH2200 &amp; 1200</td>
<td>Univ. Physics 2-Elec&amp;Magnet</td>
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<tr>
<td>Soc. Resp./Ethic. Reasoning crse</td>
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<table>
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<th>Semester 5</th>
<th>Semester 6</th>
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<tbody>
<tr>
<td>EE3131</td>
<td>Electronics</td>
</tr>
<tr>
<td>EE3140</td>
<td>Electromagnetics</td>
</tr>
<tr>
<td>EE3160</td>
<td>Signals and Systems</td>
</tr>
<tr>
<td>CEE3501</td>
<td>Environmental Engineering Fund.</td>
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<tr>
<td>HASS HU/FA elective</td>
<td>3</td>
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<tr>
<td><strong>Total</strong></td>
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<table>
<thead>
<tr>
<th>Semester 7</th>
<th>Semester 8</th>
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<tbody>
<tr>
<td>EE4901 &amp; 4910</td>
<td>EE Design Project 1 (part 1)</td>
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<tr>
<td>EE3180</td>
<td>Probability – Signal Analysis</td>
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<tr>
<td>CEExxxx</td>
<td>Env. Quality Engg. Elective</td>
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<tr>
<td>Remote sensing choice 1a or 2b</td>
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<tr>
<td>EE elective</td>
<td>3</td>
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<tr>
<td>HASS Comp/Comm. Course</td>
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</tr>
<tr>
<td><strong>17</strong></td>
<td><strong>15</strong></td>
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</tbody>
</table>

**Total 128 Credits**

Students must add 3 units of co-curricular activities (such as Physical Education), usually taken in six .5 units. Follow pre-requisites and semester offerings. This is a ‘suggested’ plan which can vary by individual student. Students who begin in a pre-calculus course will take ENG1001 and ENG1100 in place of ENG1101 in first year.

1. MA1160 may be replaced by MA1161.
2. MA2320 and MA3520 may replace MA2321 and MA3521.
3. Remote sensing sequence: Choose either set: (1a EE4252 and 1b GE4250) or (2a EE2190 and 2b EE3190)
4. Choose two courses from the Environmental Quality Engineering Areas list.
5. EE Electives: Minimum 6 credits of EE courses not listed here and not EE3805, EE4805, EE4901, EE4910.
6. HASS = Humanities, Arts and Social Sciences. Follow university requirements for general distribution electives.
    - GE2100, Environmental Geology is a recommended HASS Restricted List elective for this program.
7. Up to 6 credits “EE” level 4000+ may be double-counted toward an ECE accelerated master’s program.
8. Approved Engineering Design courses or Enterprise courses may replace EE4901, & EE4910. See department advisor.

11.21.2017