The e+ Civil Emphasis (Post Fall 2018)

The e+ degree requirements include completion of 128 semester hours of required and elective courses with a minimum grade point average of 2.25. Beginning with the incoming class of Fall 2016, the minimum passing grade for prerequisite and corequisite courses for the e+ Civil Emphasis curriculum is a C, including courses completed outside the department (APPM, PHYS, etc.). Beginning with the incoming class of Fall 2018, GEEN 2851 and GEEN 3852 will be required courses. The e+ Civil Emphasis curriculum consists of 52-53 engineering credit hours, including a one-semester capstone design experience.

<table>
<thead>
<tr>
<th>Course Title/Subject</th>
<th>Course Number</th>
<th>Grade</th>
<th>Term</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction to Engineering Computing</td>
<td>CHEN 1310†</td>
<td>3</td>
<td></td>
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<tr>
<td>Engineering Projects</td>
<td>GEEN 1400</td>
<td>3</td>
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<td>Engineering for the Community</td>
<td>GEEN 2400</td>
<td>3</td>
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<tr>
<td>Statics for Engineers</td>
<td>GEEN 2851</td>
<td>3</td>
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<tr>
<td>Circuits and Electronics for Engineers</td>
<td>ECEN 3010</td>
<td>3</td>
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<tr>
<td>Mechanics of Materials I</td>
<td>CVEN 3161</td>
<td>3</td>
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<tr>
<td>Probability, Statistics and Decision</td>
<td>CVEN 3227</td>
<td>3</td>
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<tr>
<td>Invention and Innovation</td>
<td>GEEN 3400</td>
<td>3</td>
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<tr>
<td>Thermodynamics for Engineers</td>
<td>GEEN 3852</td>
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</table>

Select one of the following:
- Hydraulic Engineering
- Geotechnical Engineering I

Select one from the following:
- CVEN 3313†

Select two Foundational Courses that follow: (cannot double count course from above)
- Structural Analysis
- Geotechnical Engineering I
- Introduction to Construction
- Fundamentals of Environmental Engineering
- Hydraulic Engineering

Select one from the following:
- A third course from the list above that you have not yet taken
- Engineering Drawing or Computer-Aided Design and Fabrication
- Engineering Economics

Select a focus area with two associated courses from:

**Structures:**
- Steel Design
- Reinforced Concrete Design

**Geotechnical:**
- Geotechnical Engineering 2
- Foundation Engineering

**Environmental:**
- Water and Wastewater Treatment
- Hazardous & Industrial Waste Management

**Water Resources:**
- Engineering Hydrology
- Groundwater Engineering

**Construction:**
- Construction Equipment and Methods
- Project Management 1
- Civil Engineering Senior Project Design

† Standard course substitutions: CHEN 1310, CSCI 1300 (4), CSCI 1310 (4), CSCI 1320 (4), or ECEN 1310 (4)
CVEN 3313: AREN 2120 (3), MCEN 3021 (3), or CHEN 3200 (3)

* Course offered intermittently