NORMAL SEMESTER BY SEMESTER COURSE SEQUENCE (128 credits)

<table>
<thead>
<tr>
<th>FIRST YEAR - First Semester</th>
<th>Cr.</th>
<th>Second Semester</th>
<th>Cr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1127Q or 1147Q General Chemistry</td>
<td>4</td>
<td>CHEM 1128Q or 1148Q General Chemistry</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1131Q Calculus I</td>
<td>4</td>
<td>MATH 1132Q Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>ENGR 1000 Orientation to Engineering</td>
<td>1</td>
<td>ENGR 1166 Foundations of Engineering</td>
<td>3</td>
</tr>
<tr>
<td>CSE 1010 Intro to Computing for Engineers</td>
<td>3 (1)(2) CA 1 (____________________________)</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>(1) ENGL 1010 Seminar in Academic Writing or ENGL 1011 Sem. in Writing thru Literature</td>
<td>4 (1)(2) CA 2 (____________________________)</td>
<td>3</td>
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</tr>
<tr>
<td>TOTAL</td>
<td>16</td>
<td>TOTAL</td>
<td>17</td>
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<table>
<thead>
<tr>
<th>SECOND YEAR - First Semester</th>
<th>Second Semester</th>
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<tbody>
<tr>
<td>PHYS 1501Q Physics for Engineers I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2110Q Multivariable Calculus</td>
<td>4</td>
</tr>
<tr>
<td>CE 2110 Applied Mechanics I</td>
<td>3</td>
</tr>
<tr>
<td>CE 2410 Geomatics &amp; Spatial Meas.</td>
<td>4</td>
</tr>
<tr>
<td>PHIL 1104 Philosophy &amp; Ethics (CA 1)</td>
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<tr>
<td>TOTAL</td>
<td>18</td>
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<table>
<thead>
<tr>
<th>THIRD YEAR - First Semester</th>
<th>Second Semester</th>
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</thead>
<tbody>
<tr>
<td>CE 2110 C&amp;EE Professional Issues Seminar</td>
<td>3</td>
</tr>
<tr>
<td>CE 2110 or ENVE 2330 Decision Analysis in CEE</td>
<td>3</td>
</tr>
<tr>
<td>ENVE 2310 Environmental Engineering Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>CE 3110 Mechanics of Materials</td>
<td>3 (4) CE 3630 Steel Structure Design</td>
</tr>
<tr>
<td>CE 3120 or ENVE 3120 Fluid Mechanics</td>
<td>3 (2) GenEd: CA 4 (____________________________)</td>
</tr>
<tr>
<td>CE 3510 Soil Mechanics I</td>
<td>4 (2) GenEd: CA 4 (____________________________)</td>
</tr>
<tr>
<td>TOTAL</td>
<td>16</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>FOURTH YEAR – First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECE 3002 Electrical Engineering Principles</td>
<td>3</td>
</tr>
<tr>
<td>Or (4) CE 3640 Rein. Concrete Struc. Design</td>
<td>3</td>
</tr>
<tr>
<td>Or CHEG 2111 Chem. Engrg. Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>2</td>
</tr>
<tr>
<td>TOTAL</td>
<td>14(6)</td>
</tr>
</tbody>
</table>

NOTES:
(1) These courses may be taken either semester in the first year.
(2) CA = Content Area in General Education (GenEd) Requirements (For current lists of GenEd courses, visit http://geoc.uconn.edu). These courses must include one W course and may be taken at any time.
(3) You must complete two semesters of CE 2010 with satisfactory grade before taking CE 4910W.
(4) All students must take either CE 3630 or 3640.
(5) Professional Requirements must be chosen to include at least one course from four of the following technical areas: Construction Management (CE 4210), Environmental/Sanitary (ENVE 3220 if also taken CE 3610, or ENVE 4310), Geotechnical (CE 4510 or 4541), Hydraulic/Water Resources (ENVE 4810 or 4820), Structural (CE 3630 or CE 3640), Surveying/Geodetic (CE 4410), and Transportation (CE 4710). The remaining course may be any 2000-level or higher course in engineering, mathematics or science not already used to satisfy another requirement or MGMT 5335.
(6) The credit totals for the last three semesters depend on how many structural design courses are chosen and when they are taken. If the second structural design class is selected as a professional requirement, the number of free elective credits is reduced by one.
The professional requirements are satisfied by fifteen (15) credits of 3000-level or higher courses in engineering, science or mathematics, including at most one course at the 2000-level and MGMT 5335. Following are specific restrictions on these courses:

**Proficiency in 4 CE Areas (12 Credits):** All CE students must take one course in each of the seven technical areas listed in the table below as “Required Courses”. In addition, for the Professional Requirements, Each student must take a second course from four different of these areas listed as “Proficiency Courses”. (F) and (S) indicates if the course is typically offered in the First or Second semester.

<table>
<thead>
<tr>
<th>Technical Areas</th>
<th>Required Courses</th>
<th>Proficiency Courses (4 required @ 1 each from 4 Areas)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction Management</td>
<td>CE 2210 or ENVE 2330 Decision Analysis in CEE (F)</td>
<td>CE 4210 Operations Research in CEE (S)</td>
</tr>
<tr>
<td>Environmental</td>
<td>ENVE 2310 Environmental Engineering Fundamentals (F)</td>
<td>ENVE 3220* Water Quality Engineering (S) or ENVE 4310 Environmental Modeling (S)</td>
</tr>
<tr>
<td>Geotechnical</td>
<td>CE 3510 Soil Mechanics I (F)</td>
<td>CE 4510 Foundation Design (S) or CE 4541 Soil Mechanics II (F)</td>
</tr>
<tr>
<td>Hydraulic / Water Resources</td>
<td>CE 3120 or ENVE 3120 Fluid Mechanics (F)</td>
<td>ENVE 4810 Engineering Hydrology (F) or ENVE 4820 Hydraulic Engineering (S)</td>
</tr>
<tr>
<td>Structural</td>
<td>CE 3630 Steel Structure Design (S) or CE 3640 Reinforced Concrete Structure Design (F)</td>
<td><strong>CE 3630 Steel Structure Design (S) or CE 3640 Reinforced Concrete Structure Design (F)</strong></td>
</tr>
<tr>
<td>Surveying / Geodetic</td>
<td>CE 2410 Geomatics and Spatial Measurement (F)</td>
<td>CE 4410 Computer Aided Site Design (S)</td>
</tr>
<tr>
<td>Transportation</td>
<td>CE 2710 Transportation Engineering (S)</td>
<td>CE 4710 Case Studies in Transportation Engineering (F)</td>
</tr>
</tbody>
</table>

*ENVE 3220 is permitted for Professional Requirements only if CE 3610 was also taken.

**To meet proficiency in the Structural area, the second of the two courses must be taken.

**Restrictions on the Remaining Three Credits of Courses:**
- CE 3520 Civil Engineering Materials (S) or ENVE 3200 Environmental Engineering Laboratory (S) may be used only if the other was taken for the laboratory requirement.
- CE 3610 Basic Structural Analysis (S) or ENVE 3220 Water Quality Engineering (S) may be used only if the other was taken to meet CE requirements.

**Additional CE Courses that can be used for Professional Requirements:**
- ENVE 3530 or CE 3530 or GSCI 3710 Engineering and Environmental Geology (S)
- CE 4610 Advanced Structural Analysis (F)