## 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>
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<tbody>
<tr>
<td>CHEM 1127Q General Chemistry</td>
<td>4</td>
<td>CHEM 1128Q General Chemistry</td>
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<tr>
<td>MATH 1131Q Calculus I</td>
<td>4</td>
<td>MATH 1132Q Calculus II</td>
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<tr>
<td>ENGR 1000 Orientation to Engineering</td>
<td>1</td>
<td>ENGR 1166 Foundations of Engineering</td>
<td>3</td>
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<tr>
<td>CSE 1010 Intro to Computing for Engineers</td>
<td>3</td>
<td>(1)(2) CA 1 (__________)</td>
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<tr>
<td>(1) ENGL 1010 Seminar in Academic Writing or ENGL 1011 Sem. in Writing thru Literature</td>
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<td>(1)(2) CA 2 (__________)</td>
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<td>TOTAL</td>
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<tr>
<th>SECOND YEAR - First Semester</th>
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<tr>
<td>PHYS 1501Q Physics for Engineers I</td>
<td>4</td>
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<tr>
<td>MATH 2110Q Multivariable Calculus</td>
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<tr>
<td>CE 2110 Applied Mechanics I</td>
<td>3</td>
</tr>
<tr>
<td>ENVE 2310 Environmental Engineering Fundamentals</td>
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<tr>
<td>(3) Elective</td>
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<th>THIRD YEAR - First Semester</th>
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<tr>
<td>CE 2210 Decision Analysis in CEE</td>
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<tr>
<td>ENVE 3120 Fluid Mechanics</td>
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<tr>
<td>ENVE 4210 Environmental Engineering Chemistry</td>
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<tr>
<td>(3) Elective</td>
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<tr>
<td>(3) Elective</td>
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<tr>
<td>(2) GenEd: CA 2 (__________)</td>
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<th>FOURTH YEAR – First Semester</th>
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<tr>
<td>ENVE 4910W Environmental Engineering Design I</td>
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<tr>
<td>ENVE 3270 Environmental Microbiology</td>
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<tr>
<td>ENVE 4320 Ecological Principles and Engineering</td>
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<tr>
<td>Free Elective</td>
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<td>(2) GenEd: CA 4 (__________)</td>
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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](http://geoc.uconn.edu)). These courses may be taken at any time and CA assignments to particular semesters are indicative only.
3. There are 6 total ELECTIVE courses that are to be selected to meet the following requirements:
   - Natural Resource Requirement (1 Course):
     - NRE 3155- Water Quality Management (Fall semester even years) OR
     - NRE 3205-Stream Ecology (Spring semester) OR
     - NRE 3105-Wetlands Biology & Conservation (Fall odd yrs)
   - Earth Science Requirement (1 Course):
     - NRE 4135-Intro. to Groundwater Hydrology (Fall semester) OR
     - ENVE 3530- Engr. & Env. Geology (Spring semester, odd years)
   - Hydrologic Science Requirement (1 Course):
     - ENVE 4810-Engineering Hydrology (Fall semester) OR
     - ENVE 4820-Hydraulic Engineering (Spring semester)
   - Professional Electives (3 Courses): At least one course from three different focus areas (see pg. 2 for list of approved courses)

MAY 9, 2012
ENVE Professional Requirements

At least one course each to strengthen three of the following nine focus areas:

- **Water Supply and Natural Resources**
  - ENVE 4820 Hydraulic Engineering
  - GEOG 2300 Introduction to Physical Geography
  - GEOG 3320W Environmental Evaluation and Assessment
  - GEOG 3410 Human Modification of Natural Environments
  - MARN 3016 Marine Microbiology
  - NRE 3105 Wetlands Biology and Conservation
  - NRE 3535 Introductory Remote Sensing
  - NRE 4000W Principles of Renewable Natural Resources

- **Environmental Systems Modeling**
  - CHEG 3151 Process Kinetics
  - CHEG 3260 Introduction to Environmental Rate Processes
  - CHEG 4141 Introduction to Process Dynamics and Control
  - OPIM 3610 Operations Research for Information Systems Analysis

- **Wastewater Management**
  - MARN 4030W Marine Biogeochemistry
  - MCB 2610 Fundamentals of Microbiology
  - NRE 4165 Soil, Water & Waste Engineering
  - OSH 4220 Pollution Control and Prevention I

- **Environmental Chemistry**
  - CHEM 3332 Quantitative Analytical Chemistry
  - CHEM 3563 Physical Chemistry
  - CHEM 3564 Physical Chemistry
  - EEB 3247 Limnology
  - EEB 4248 Limnological Methods
  - SOIL 3410 Soil Chemistry Components

- **Solid Waste Management**
  - CE 3510 Soil Mechanics I
  - GEOG 3340 Environmental Planning and Management
  - NRE 4165 Soil & Water Management

- **Hazardous Waste Management**
  - MCB 2000 Introduction to Biochemistry
  - MCB 3635 Applied Microbiology
  - MCB 3640W Bacterial Diversity and Ecology
  - SOIL 4420 Soil Chemistry Processes

- **Atmospheric Systems & Air Pollution Control**
  - GEOG 3400 Climate and Weather
  - ME 3239 Pollution from Combustion
  - NRE 3115 Air Pollution
  - NRE 3145 Meteorology
  - NRE 3535 Introductory Remote Sensing

- **Environmental and Occupational Health**
  - AH 3175 Environmental Health
  - AH 3275 HAZWOPER
  - OSH 3271 Workplace Chemical Safety
  - OSH 3277W Hazardous Chemicals

- **Hydrology and Earth Resources**
  - CE 3510 Soil Mechanics I
  - GSCI 3510 Applied Geophysics for Geologists and Engineers
  - EEB 3247 Limnology
  - ENVE 3530 Engineering & Environmental Geology
  - ENVE 4810 Engineering Hydrology
  - NRE 3145 Meteorology
  - NRE 3205 Stream Ecology
  - NRE 4135C Introduction to Groundwater Hydrology

- **Environment and the Society**
  - OSH 3275 Workplace Environmental Law and Regulations
  - NRE 3245 Environmental Law
  - SOCI 3407W Energy, Environment and Society
  - ARE 3434 Environment and Resource Policy
  - ARE 4462 Economics of Natural Resource Use
  - MGMT 5335 Venture Planning, Management, and Growth
  - LAND 2210 The Common Landscape of the U.S.A.: Rights, Responsibilities, and Values