### Sample Environmental Engineering Program

This program satisfies the Environmental Engineering BS with a concentration area in environmental engineering science. This program is based on the assumption that students have not previously completed A.P. courses in Calculus, Physics, Chemistry, etc.

First year

<table>
<thead>
<tr>
<th>Semester 1</th>
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<tbody>
<tr>
<td><strong>110.108 Calculus I (Physical Sciences and Engineering)</strong></td>
</tr>
<tr>
<td><strong>030.101 Introductory Chemistry I</strong></td>
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<tr>
<td><strong>030.105 Introductory Chemistry Laboratory I</strong></td>
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<tr>
<td><strong>570.108 Introduction to Environmental Engineering</strong></td>
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<tr>
<td><strong>H/S Elective 1</strong></td>
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Total: 14

<table>
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<tr>
<th>Semester 2</th>
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<tbody>
<tr>
<td><strong>110.109 Calculus II (Physical Sciences and Engineering)</strong></td>
</tr>
<tr>
<td><strong>030.102 Introductory Chemistry II</strong></td>
</tr>
<tr>
<td><strong>030.106 Introductory Chemistry Laboratory II</strong></td>
</tr>
<tr>
<td><strong>171.101 General Physics for Physical Sciences Majors I</strong></td>
</tr>
<tr>
<td><strong>173.111 General Physics Laboratory I</strong></td>
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<tr>
<td><strong>570.210 Intro. to Computation and Math. Modeling</strong></td>
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Total: 16 (Annual 30)

Second year

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<thead>
<tr>
<th>Semester 1</th>
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<tbody>
<tr>
<td><strong>550.291 Linear Algebra and Differential Equations</strong></td>
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Semester 2

110.202 Calculus III (Calculus of Several Variables) 4 (M)
510.312 Physical Chemistry of Materials I: Thermodynamics 3 (GE)
570.239 Current and Emerging Environmental Issues 3 (EER)
H/S Elective 2 3 (HS)
H/S Elective 3 3 (HS)

Total 16 (Annual 32)

Third year

Semester 1

570.301 Environmental Engineering I: Fundamentals 3 (EER)
570.305 Environmental Engineering Systems Design 4 (D)
570.334 Engineering Microeconomics 3 (HS Elective 4)
570.351 Introduction to Fluid Mechanics 3 (GE)
Environmental Engineering or Technical Elective 3 (EEE or TE)

Total 16

Semester 2
Probability/Statistics course 3 (M)
020.151 General Biology 3 (BS)
570.302 Environmental Engineering II 3 (EER)
570.304 Environmental Engineering and Science Lab. 3 (EER)
H/S Elective 5 3 (HS)
Environmental Engineering or Technical Elective 3 (EEE or TE)

Total 18 (Annual 34)

Fourth year
Semester 1
570.353 Hydrology 3 (EER)
570.419 Environmental Engineering Design I 2 (D)
Environmental Engineering or Technical Elective 3 (EEE or TE)
Environmental Engineering or Technical Elective 3 (EEE or TE)
Environmental Engineering or Technical Elective 3 (EEE or TE)

Total 14

Semester 2
570.421 Environmental Engineering Design II 3 (D)
H/S Elective 6 3 (HS)
Environmental Engineering or Technical Elective 3 (EEE or TE)
Environmental Engineering or Technical Elective 3 (EEE or TE)
Environmental Engineering or Technical Elective 3 (EEE or TE)

Total 15 (Annual 29)
Math (M) = 19 credits; Humanities and Social Sciences (HS) = 18 credits; Basic Science (BS) = 24 credits; General Engineering (GE) = 16 credits; Environmental Engineering Requirement (EER) = 15 credits; Environmental Engineering Electives (EEE) = 12 credits; Technical Electives (TE) = 12 credits; Design (D) = 9 credits; Total Credits = 125