Civil: Structural Engineering with International Development (Option G)
September 2016

### Year 2:
#### Term A
- AM 2270a/b  Applied Math for Engineering II
- CEE 2224  Engineering Fluid Mechanics
- CEE 2202a  Mechanics of Materials
- CEE 2217a  Introduction to Environmental Engineering
- CEE 2220a  Introduction to Structural Engineering
- SS 2141a  Applied Probability and Statistics for Engineers

#### Term B
- AM 2277a/b  Applied Math for Civil and Chemical Engineering II
- CEE 2224  Engineering Fluid Mechanics
- CEE 2219b  Computational Tools for Civil Engineers
- CEE 2221b  Structural Theory and Design
- Earth Sc. 2281b  Geology for Engineers
- ES 2211G  Engineering Communications

*Note: CEE 3324a (Surveying). This course is available each summer (15 days) and must be completed before a student may graduate from the Civil Engineering program.*

### Year 3:
#### Term A
- CEE 3321a  Soil Mechanics and Hydrogeologic Engineering
- CEE 3327a  International Development for Civil Engineers
- CEE 3340a  Analysis of Indeterminate Structures
- CEE 3344a  Structural Dynamics I
- CEE 3347a  Reinforced Concrete Design
- CEE 3348a  Project Management and Engineering Cases

#### Term B
- CEE 3322b  Introduction to Geotechnical Engineering
- CEE 3328b  Appropriate Technologies for International Development
- CEE 3343b  Finite Element Methods and Application to Lateral Analysis of Buildings
- CEE 3346b  Steel Design
- CEE 3358b  Reinforced and Prestressed Concrete Design
- CEE 3369b  Materials for Civil Engineering

### Year 4:
#### Term A
- CEE 4441  Civil Engineering Design Project (International Community Development)
- CEE 4426a  Geotechnical Engineering Design
- CEE 4491b  Structural Dynamics II
- Bus 2299E  Business for Engineers
- One 0.5 technical elective

#### Term B
- CEE 4441  Civil Engineering Design Project (International Community Development)
- CEE 4404b  Advanced Topics in International Development for Engineers
- CEE 4478b  Case Studies in Civil Engineering
- ES 4498G  Engineering Ethics, Sustainable Development and the Law
- Bus 2299E  Business for Engineers
- One 0.5 Technical Elective

### NOTES:
- Technical Elective List:
  - Some technical electives may not be offered in a given academic year.
  - Consult the department for accurate listing.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEE 4405a/b</td>
<td>Air Pollution</td>
</tr>
<tr>
<td>CEE 4418a/b</td>
<td>Systems Approach for Civil and Environmental</td>
</tr>
<tr>
<td>CEE 4427a/b</td>
<td>Selected Topics in International Development</td>
</tr>
<tr>
<td>CEE 4428a/b</td>
<td>Selected Topics in Civil Engineering I</td>
</tr>
<tr>
<td>CEE 4429a/b</td>
<td>Selected Topics in Civil Engineering II</td>
</tr>
<tr>
<td>CEE 4458a/b</td>
<td>Risk Analysis and Decision Making in Engineering</td>
</tr>
<tr>
<td>CEE 4476a/b</td>
<td>Environmental Hydraulics Design</td>
</tr>
<tr>
<td>CEE 4480a/b</td>
<td>Wind Engineering: Modelling, Assessment and Mitigation</td>
</tr>
<tr>
<td>CEE 4440</td>
<td>Civil Engineering Thesis (full year course – counts as two technical electives)</td>
</tr>
<tr>
<td>Geog. 2020a/b</td>
<td>Latin America and the Caribbean</td>
</tr>
<tr>
<td>Geog. 2030a/b</td>
<td>Africa South of the Sahara</td>
</tr>
<tr>
<td>CGS 2002 F/G</td>
<td>Problems of Global Development</td>
</tr>
<tr>
<td>CGS 3004 a/b</td>
<td>Critique of Capitalism</td>
</tr>
</tbody>
</table>