# ROADMAP TO YOUR GRADUATION
## Civil Engineering Program - 2011
### Department of Civil & Architectural Engineering

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
<th>Year 4</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall</strong></td>
<td><strong>Spring</strong></td>
<td><strong>Fall</strong></td>
<td><strong>Spring</strong></td>
</tr>
<tr>
<td>(16 hrs)</td>
<td>(18 hrs)</td>
<td>(18 hrs)</td>
<td>(18 hrs)</td>
</tr>
<tr>
<td>English Language I - Post Foundation ENGL 202 (3)</td>
<td>English Language II - Post Foundation ENGL 203 (3)</td>
<td>Properties and Testing of Materials CVEN 210 (3)</td>
<td>Fluid Mechanics CVEN 212 (3)</td>
</tr>
<tr>
<td>Calculus I MATH 181 (3)</td>
<td>Calculus II MATH 182 (3)</td>
<td>Calculus III MATH 211 (3)</td>
<td>Mathematics for Engineers MATH 217 (3)</td>
</tr>
<tr>
<td>General Chemistry I CHEM 101 (3)</td>
<td>General Chemistry I CHEM 103 (3)</td>
<td>General Physics for Engineering I PHYS 191 (3)</td>
<td>General Physics for Engineering II PHYS 193 (3)</td>
</tr>
<tr>
<td>Experimental General Chemistry I CHEM 183 (1)</td>
<td>Experimental General Physics for Engineering I PHYS 192 (1)</td>
<td>Experimental General Physics for Engineering II PHYS 194 (1)</td>
<td></td>
</tr>
<tr>
<td>Engineering Skills GENG 107 (3)</td>
<td>Engineering Graphics GENG 111 (3)</td>
<td>Statics CVEN 213 (3)</td>
<td>Analysis of Structures CVEN 220 (3)</td>
</tr>
<tr>
<td>Computer Programming GENG 106 (3)</td>
<td>Islamic Culture DAWA 111 (3)</td>
<td>Probability and Statistics for Engineers GENG 208 (3)</td>
<td>Geotechnical Engineering CVEN 230 (1)</td>
</tr>
<tr>
<td>Free Elective (2)</td>
<td>Free Elective (2)</td>
<td>Core Curriculum Elective ++ (3)</td>
<td>Core Curriculum Elective ++ (3)</td>
</tr>
<tr>
<td><strong>Total Credit Hours = (131)</strong></td>
<td><strong>Total No. of Courses = (47)</strong></td>
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</tbody>
</table>

**Notes:**
- Complete 100 credit Hours or Departmental approval
- The alternate course ARAB 107 is offered to non-native Arabic speakers
- Student must complete a minimum of 3 credit hours from Social/Behavioral Sciences package and a minimum of 3 credit hours from Humanities/Fine Arts package

**Courses:**
- ENGL 202: English Language I - Post Foundation
- ENGL 203: English Language II - Post Foundation
- MATH 181: Calculus I
- MATH 182: Calculus II
- MATH 217: Mathematics for Engineers
- CHEM 101: General Chemistry I
- CHEM 103: General Chemistry I
- PHYS 191: General Physics for Engineering I
- PHYS 193: General Physics for Engineering II
- MATH 211: Calculus III
- GENG 107: Engineering Skills
- GENG 111: Engineering Graphics
- GENG 106: Computer Programming
- GENG 208: Probability and Statistics for Engineers
- CVEN 210: Properties and Testing of Materials
- CVEN 212: Fluid Mechanics
- CVEN 213: Statics
- CVEN 217: Mathematics for Engineers
- CVEN 220: Analysis of Structures
- CVEN 230: Geotechnical Engineering
- CVEN 310: Foundation Engineering I

**Yearly Schedule:**
- *Year 1*: Fall (16 hrs), Spring (18 hrs)
- *Year 2*: Fall (18 hrs), Spring (18 hrs)
- *Year 3*: Fall (18 hrs), Summer (3 hrs)
- *Year 4*: Fall (15 hrs), Spring (11 hrs)

**Course Requirements:**
- Core Curriculum Requirements
- College Requirements
- Major Core Requirements
- Major Electives
- Major Additional-Science Elective
- Free Electives

**Pre-requisite:** A prerequisite is a course which must be taken in the same term as the course in which it is a prerequisite. If two (or more) courses must absolutely be taken in the same term, co-requisites should be used.

**Concurrent:** A course which must be taken in the same term as the course in which it is a prerequisite and indicate that two prerequisite courses can be taken either in an earlier term or in the same term as the course in which registration is attempted.