### Civil Engineering Technology, B.S. Structures Concentration

303-556-3227   Plaza Building 262

This sheet applies to the 2012-2013 catalog only. It does not replace the full catalog or departmental advising sheets as official statements of requirements. Students with declared majors must work with a faculty advisor on course selection and sequencing to ensure a timely graduation.

<table>
<thead>
<tr>
<th>General Studies</th>
<th>43 min</th>
<th>Students who have reached junior standing (60 hrs) should request a CAPP (graduation compliance report) and review it with a faculty advisor.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major courses</td>
<td>53-57</td>
<td></td>
</tr>
<tr>
<td>Concentration</td>
<td>18</td>
<td></td>
</tr>
<tr>
<td>Additional required courses</td>
<td>12</td>
<td></td>
</tr>
<tr>
<td><strong>Total to graduate (min. 40 hrs. upper division)</strong></td>
<td><strong>129-135</strong></td>
<td></td>
</tr>
</tbody>
</table>

### Written Communication

- **ENG 1010 (3hrs)** Freshman Comp: the Essay*
- **OR** **ENG 1008/1009 (6 hrs.)** Freshman Comp: The Essay Part I & II*
- **ENG 1020 (3hrs)** Freshman Comp: Anal., Rsrch & Docum. (must be completed within 45-credit hours)

### Quantitative Literacy: students must earn a grade of “C” or higher

- **MTH 1410 (4 hrs)** Calculus I
- **or** **MTH 1400 (4 hrs)** Pre-Calculus & MTH 1410 (4 hrs) Calculus I

*Note: MTH 1110-4 College Algebra & MTH 1120-3 Trigonometry may substitute for MTH 1400.

### Oral Communication

- **SPE 1010 (3 hrs)** Public Speaking

### Arts & Humanities

- **(3 hrs)**
- **PHI 3360 (3 hrs)** Business Ethics

### Historical

- **(3 hrs)**

### Natural & Physical Sciences: Students must earn a grade of “C” or higher

- **CHE 1100 (4 hrs)** Principles of Chemistry & CHE 1150 (1 hr) Lab
- **PHY 2311 (4 hrs)** General Physics I & PHY 2321 (1 hr) Lab
- **PHY 2331 (4 hrs)** General Physics II & PHY 2341 (1 hr) Lab

### Social & Behavioral Science I

- **IND 2810 (3 hrs)** Technology & Design: Global Perspectives (recommended)

### Social & Behavioral Science II

- **ECO 2020-3 Principles of Economics: Micro**

### Global Diversity

- **IND 2810 Technology & Design: Global Perspectives (recommended)**

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### MAJOR COURSES: students must earn a grade of “C” or higher in all major courses

- **CET 1100 (3 hrs)** Introduction to Civil Engineering Technology
- **CET 1215 (3 hrs)** Engineering Graphics
- **CET 2100 (3 hrs)** Structural Drawing
- **CET 2150 (3 hrs)** Mechanics I - Statics
- **CET 3120 (3 hrs)** Engineering Economy
- **CET 3135 (3 hrs)** Mechanics of Materials with Laboratory
- **CET 3170 (3 hrs)** Introduction to Structural Analysis
- **CET 3185 (3 hrs)** Fluid Mechanics I for Civil Engineering Technology
- **CET 3190 (3 hrs)** Fluid Mechanics II for Civil Engineering Technology
- **CET 3330 (3 hrs)** Environmental Technology Process
- **CET 4100 (1 hr)** Senior Project I
- **CET 4110 (2 hrs)** Senior Project II
- **CET 4130 (4 hrs)** Soils Mechanics (Senior Experience)
- **CET 4135 (3 hrs)** Foundation and Geotechnical Engineering
- **CET 4150 (3 hrs)** Highway Engineering and Surveying
- **CET 4570 (3 hrs)** Engineering Law
- **COM 2610 (3 hrs)** Introduction to Technical Writing
- **MET 3110 (3 hrs)** Thermodynamics
- **MET 3160 (3 hrs)** Mechanics II - Dynamics

One of the following:

- **CS 1050-4**
- **CSS 1247-4**
- **CSS 1510-4**
- **EET 2340-3**

### Structures Concentration

- **CET 4120-3**
- **CET 4400-3**
- **CET 4450-3**
- **-3 approved tech. elective**

### Additional Requirements: Must earn a grade of “C” or higher

- **MTH 1410-4** Calculus I (may meet general studies math requirement)
- **MTH 2410-4** Calculus II
- **MTH 2420-4** Calculus III

**Multicultural Requirement**

(may be satisfied within General Studies)