## General Studies

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<tr>
<th>Category</th>
<th>Minimum Credits</th>
<th>Maximum Credits</th>
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<tr>
<td>Major courses</td>
<td>53</td>
<td>57</td>
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<tr>
<td>Concentration</td>
<td>18</td>
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<td>Additional required courses</td>
<td>12</td>
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<tr>
<td>Total to graduate (min. 40 hrs. upper division)</td>
<td>129-135</td>
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This sheet applies to the 2013-2014 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.

### Written Communication

- **ENG 1010 (3hrs)** Composing Arguments*

  OR

  - **ENG 1008/1009 (6 hrs.)** Freshman Comp: The Essay Part I & II*
  - **ENG 1020 (3hrs)** Freshman English: Rsrch, Anly, & Documt. (must be completed within 45-credit hours)

### Oral Communication*

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

### Quantitative Literacy*

Students must earn a grade of “C” or higher

- **MTH 1410 (4 hrs)** Calculus I
- **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).

### 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*

- **(3 hrs)** (IND 2810 is recommended)

### Social & Behavioral Science II*

- **(3 hrs)**

### Global Diversity

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

*Students are required to take either ECO 2010 or ECO 2020. One of these may be applied to a social science category within general studies.

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### MAJOR COURSES:

Students must earn a grade of “C” or higher in all major courses. See a faculty advisor

- **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**

### Construction Concentration:

- **CET 3100-3**
- **CET 4120-3**
- **CET 4400-3**
- **CET 4450-3**
- **CET 3110-3**

- **3 approved tech. elective**

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

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

### Multicultural Requirement

(may be satisfied within General Studies)

**Electives**