CIVIL ENGINEERING
Courses highlighted below are available at the University of North Georgia
Curriculum Example*

<table>
<thead>
<tr>
<th>FRESHMAN YEAR</th>
<th>SOPHOMORE YEAR</th>
<th>JUNIOR YEAR</th>
<th>SENIOR YEAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 CH 1010 General Chemistry</td>
<td>3 CE 2010 Statics</td>
<td>3 CE 3010 Structural Analysis</td>
<td>3 ENGL 3140 Technical Writing</td>
</tr>
<tr>
<td>3 ENGL 1030 Accelerated Composition</td>
<td>3 CE 2550 Geometrics</td>
<td>3 CE 3310 Construction Engineering and Mgt.</td>
<td>3 Design Technical Requirement*</td>
</tr>
<tr>
<td>2 ENGR 1020 Engineering Discipline and Skills(^1)</td>
<td>4 MATH 2060 Calculus of Several Variables</td>
<td>4 CE 3410 Introduction to Fluid Mechanics</td>
<td>6 Technical Requirement(^3)</td>
</tr>
<tr>
<td>4 MATH 1060 Calculus of One Variable I</td>
<td>3 PHYS 2210 Physics with Calculus II</td>
<td>4 CE 3510 Civil Engineering Materials</td>
<td>3 Technical Requirement Restricted(^5)</td>
</tr>
<tr>
<td>3 Gen Ed(^2)</td>
<td>1 PHYS 2230 Physics Lab. II</td>
<td>3 MATH 3020 Statistics for Science and Engineering</td>
<td>15</td>
</tr>
<tr>
<td>16</td>
<td>3 Gen Ed(^2)</td>
<td>17</td>
<td>19</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **3 ENGR 1410 Programming and Problem Solving\(^1\)**
- **2 ENGR 2100 Computer-Aided Design & Engr. Applc.**
- **3 GEOL 1010 Physical Geology**
- **1 GEOL 1030 Physical Geology Lab.**
- **4 MATH 1080 Calculus of One Variable II**
- **3 PHYS 1220 Physics with Calculus I**
- **1 PHYS 1240 Physics Lab. I**

**1 ENGR 1070, ENGR 1080 and ENGR 1090 may be substituted for ENGR 1410; ENGR 1050 and ENGR 1060 may be substituted for ENGR 1020**

**2 See Policy on Humanities and Social Sciences for Engineering Curricula. Six of these credit hours must also satisfy General Education Cross-Cultural Awareness and Science and Technology in Society Requirements.**

**3 Six credits selected from the following: CE 4210 or CE 4240; CE 4020, CE 4040, CE 4060, CE 4070 or CE 4080; CE 4110 or CE 4560; CE 4470; EES 4020**

**4 Select from BE 4840, CE 4010, CE 4020, CE 4040, CE 4060, CE 4070, CE 4080, CE 4100, CE 4110, CE 4120, CE 4210, CE 4240, CE 4330, CE 4340, CE 4360, CE 4380, CE 4390, CE 4430, CE 4460, CE 4470, CE 4560, CE 4570, CE 4620, CE 4820, CE 4910, CRP 4120, CSM 3040, CSM 3050, EES 4020, EES 4100, EES 4300, EES 4840, EES 4850, EES 4860, LAW 3220, LAW 3330, ME 3100, MSE 2100.**

**5 Select from BE 4840, CE 4100, CE 4110, CE 4120, CE 4210, CE 4240, CE 4560, CE 4820, CRP 4120, EES 4020, EES 4100, EES 4300, EES 4840, EES 4850, EES 4860**

*See catalog for current curriculum at catalog.clemson.edu

---

All Clemson engineering students begin in our General Engineering program and move into their specified major once the departmental standards are completed. Clemson courses ENGL1030, MATH1060 and 1080, PHYS1220, CH1010, ENGR1020 and ENGR1040/or CHE1300 must be completed with “C” or higher before declaring and starting courses in your engineering major.

**Footnotes:**

1. ENGR 1070, ENGR 1080 and ENGR 1090 may be substituted for ENGR 1410; ENGR 1050 and ENGR 1060 may be substituted for ENGR 1020

2. See Policy on Humanities and Social Sciences for Engineering Curricula. Six of these credit hours must also satisfy General Education Cross-Cultural Awareness and Science and Technology in Society Requirements.

3. Six credits selected from the following: CE 4210 or CE 4240; CE 4020, CE 4040, CE 4060, CE 4070 or CE 4080; CE 4110 or CE 4560; CE 4470; EES 4020

4. Select from BE 4840, CE 4010, CE 4020, CE 4040, CE 4060, CE 4070, CE 4080, CE 4100, CE 4110, CE 4120, CE 4210, CE 4240, CE 4330, CE 4340, CE 4360, CE 4380, CE 4390, CE 4430, CE 4460, CE 4470, CE 4560, CE 4570, CE 4620, CE 4820, CE 4910, CRP 4120, CSM 3040, CSM 3050, EES 4020, EES 4100, EES 4300, EES 4840, EES 4850, EES 4860, LAW 3220, LAW 3330, ME 3100, MSE 2100.

Technical Requirements and electives may be used to complete an emphasis area in one or more of the following fields: Construction Engineering and Management Emphasis Area; Construction Materials Emphasis Area; Environmental Engineering Emphasis Area; Geotechnical/Geoenvironmental Engineering Emphasis Area; Structural Engineering Emphasis Area; Transportation Systems Emphasis Area; Water Resources Engineering Emphasis Area

5. Select from BE 4840, CE 4100, CE 4110, CE 4120, CE 4210, CE 4240, CE 4560, CE 4820, CRP 4120, EES 4020, EES 4100, EES 4300, EES 4840, EES 4850, EES 4860

*See catalog for current curriculum at catalog.clemson.edu

---

**General Education Requirements**

<table>
<thead>
<tr>
<th>LIT</th>
<th>Non-Lit</th>
<th>SS1</th>
<th>SS2</th>
<th>CCA</th>
<th>STS</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIFE</td>
<td>Palmetto Fellows</td>
<td>Honors</td>
<td>Athlete</td>
<td>RISE</td>
<td>ROTC</td>
</tr>
</tbody>
</table>

**Comments:**