### B.S. CONSTRUCTION ENGINEERING – TRADITIONAL MATH 2019

#### Freshman

<table>
<thead>
<tr>
<th>Fall (17 hrs)</th>
<th>Spring (16 hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CVEEN 1000</strong> Intro to Civil &amp; Environmental Engineering</td>
<td><strong>WRTG 1010</strong> Intermediate Writing</td>
</tr>
<tr>
<td><strong>MATH 1050 &amp; 1060</strong> or MATH 1080</td>
<td><strong>CHEM 1210</strong> General Chemistry I (QR)</td>
</tr>
<tr>
<td><strong>MATH 1210</strong> Calculus I</td>
<td><strong>PHYS 2210</strong> Physics for Sci &amp; Engineers I</td>
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#### Sophomore

<table>
<thead>
<tr>
<th>Fall (15.5 hrs)</th>
<th>Spring (18 hrs)</th>
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<tbody>
<tr>
<td><strong>CVEEN 2000</strong> Seminar</td>
<td><strong>CVEEN 2140</strong> Strength of Materials</td>
</tr>
<tr>
<td><strong>CVEEN 2310</strong> Geotech I (QI)</td>
<td><strong>CVEEN 3100</strong> Technical Communication (CW)</td>
</tr>
<tr>
<td><strong>MG EN 2400</strong> Surveying</td>
<td><strong>CVEEN 3210</strong> Materials</td>
</tr>
<tr>
<td><strong>MATH 1060</strong></td>
<td><strong>MATH 1210</strong> Calculus II</td>
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#### Junior

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<thead>
<tr>
<th>Fall (15 hrs)</th>
<th>Spring (15 hrs)</th>
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<tr>
<td><strong>CVEEN 2010</strong></td>
<td><strong>WRTG 2010</strong></td>
</tr>
<tr>
<td><strong>CVEEN 2140</strong> Structural Loads &amp; Analysis (QI)</td>
<td><strong>CVEEN 2140</strong> Concrete I</td>
</tr>
<tr>
<td><strong>CVEEN 2300</strong> Engineering Economics</td>
<td><strong>CVEEN 2140 &amp; 2310</strong></td>
</tr>
<tr>
<td><strong>WRTG 2010</strong></td>
<td><strong>CVEEN 2315</strong> Transportation</td>
</tr>
<tr>
<td><strong>CVEEN 2750</strong> Computer Tools</td>
<td><strong>CVEEN 3100</strong></td>
</tr>
<tr>
<td><strong>MATH 1050</strong></td>
<td><strong>CHEM 1215</strong> Gen Chemistry II Lab</td>
</tr>
<tr>
<td><strong>MATH 2210</strong> Diff Equations &amp; Linear Algebra</td>
<td><strong>MATH 1050</strong> &amp; 1060</td>
</tr>
<tr>
<td><strong>CHEM 1215</strong> Gen Chemistry II Lab</td>
<td><strong>PHYS 2215</strong> Physics for Sci &amp; Engineers I Lab</td>
</tr>
</tbody>
</table>

#### Senior

<table>
<thead>
<tr>
<th>Fall (15 hrs)</th>
<th>Spring (15 hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CVEEN 3100, 3700, 4221, 5720, &amp; 1 Design Tech Ele</strong></td>
<td><strong>CVEEN 3100</strong></td>
</tr>
<tr>
<td><strong>CVEEN 3210</strong> Design Capstone</td>
<td><strong>CVEEN 5780</strong> Facade I</td>
</tr>
</tbody>
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**Required General Education Courses**
- **LEAP 1501 Social & Ethical Engineering (BF)** - Fall only
- **LEAP 1500 Humanities for Engineers (HFDV)** - Spring only

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**Have you completed the 4 shaded courses? Is your EGPA ≥2.50?**

- If yes, apply for Full Major Status!
**TECHNICAL ELECTIVE COURSES**

Students must complete three technical elective courses.

To graduate with a Bachelor of Science Degree in Construction Engineering you must:

1. Complete at least one course from the Primary section.
2. Complete at least one Design course from the Secondary Section. These are designated by a shaded box. Example: CVEEN 5510

As long as these requirements are satisfied, you may take the remaining one technical elective from either section.

### PRIMARY TECHNICAL ELECTIVES

- CVEEN 5710
  - Cost Estimation & Proposal Writing
  - F 20/22
  - 3

- CVEEN 5730
  - Project Management & Contract Admin.
  - SP 20/22
  - 3

- CVEEN 5750
  - Engineering Law & Contracts
  - SU 20/22
  - 3

### SECONDARY TECHNICAL ELECTIVES

#### Structures

- CVEEN 4222
  - Steel I
  - SP
  - 3

- CVEEN 5240
  - Reinforced Timber/Masonry
  - F
  - 4

#### Transportation

- CVEEN 5510
  - Highway Design
  - SP
  - 3

- CVEEN 5305
  - Introduction to Foundations
  - F
  - 3

#### Geotech & Materials

- CVEEN 3510 & 3515

- CVEEN 5500
  - Sustainable Materials
  - SP
  - 3

#### Architecture

- ARCH 6371
  - Intensive Materials & Construction
  - F
  - 3

#### Other (Max 1)

- Any 3000+ level course from the College of Engineering or an ABET accredited program

Caveat: Semester availability is subject to change at the discretion of the department and does not create a binding contractual nexus or obligation between the student and the University of Utah.