## B.S. CONSTRUCTION ENGINEERING – ENGINEERING MATH 2023

<table>
<thead>
<tr>
<th>FRESHMAN</th>
<th>SOPHOMORE</th>
<th>JUNIOR</th>
<th>SENIOR</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fall (17 hrs)</strong></td>
<td><strong>Spring (16 hrs)</strong></td>
<td><strong>Fall (15 hrs)</strong></td>
<td><strong>Spring (15 hrs)</strong></td>
</tr>
<tr>
<td>CVEEN 1000 Intro to Civil &amp; Environmental Engineering</td>
<td>CVEEN 2000 Seminar</td>
<td>CVEEN 3210 Structural Loads &amp; Analysis (QI)</td>
<td>CVEEN 4920 Design Capstone</td>
</tr>
<tr>
<td>CVEEN 1400 Computer-Aided Design</td>
<td>CVEEN 2140 Strength of Materials</td>
<td>CVEEN 3100 Technical Communication (CW)</td>
<td>CVEEN 4221 Concrete I</td>
</tr>
<tr>
<td>MATH 1050 or 1060 or MATH 1080</td>
<td>MATH 1210 &amp; PHYS 2210</td>
<td>MATH 1310 &amp; PHYS 2210</td>
<td>CVEEN 3210</td>
</tr>
<tr>
<td>MATH 1310 ENGINEERING CALCULUS I (QR)</td>
<td>MATH 1320 ENGINEERING CALCULUS II</td>
<td>MATH 1310</td>
<td>CVEEN 3210 &amp; 3315</td>
</tr>
<tr>
<td>F/SP</td>
<td>F/SP/SU</td>
<td>F/SP</td>
<td>F/SP</td>
</tr>
<tr>
<td>PHYS 2210 Physics for Sci &amp; Engineers I</td>
<td>MATH 1060</td>
<td>CHEM 1215</td>
<td>CHEM 1210</td>
</tr>
<tr>
<td>F/SP/SU</td>
<td>F/SP</td>
<td>F/SP/SU</td>
<td>F/SP/SU</td>
</tr>
<tr>
<td>PHYS 2220 Intermediate Writing</td>
<td>MG EN 2400 Surveying</td>
<td>CHEM 1225</td>
<td>CHEM 1210</td>
</tr>
<tr>
<td>F/SP</td>
<td>F/SP</td>
<td>F/SP</td>
<td>F/SP</td>
</tr>
<tr>
<td>CHEM 1220 Gen Chemistry II</td>
<td>CHEM 2250 Diff Equations &amp; Linear Algebra</td>
<td>GEN 1100</td>
<td>ENGR 1100</td>
</tr>
<tr>
<td>F/SP/SU</td>
<td>F/SP</td>
<td>F/SP</td>
<td>F/SP</td>
</tr>
<tr>
<td>CHEM 2220 Gen Chemistry II Lab</td>
<td>ARCH 1615 Intro to Architecture (FF)</td>
<td>ECON 2010 Microeconomics (BF)</td>
<td>LEAP 1501 Social &amp; Ethical Engineering (BF) - Fall only</td>
</tr>
<tr>
<td>F/SP</td>
<td>F/SP</td>
<td>F/SP</td>
<td>F/SP</td>
</tr>
<tr>
<td>ECON 2010</td>
<td>GEO 1100 Evolving Earth</td>
<td>CVEEN 3700 Principles of Construction Eng.</td>
<td>LEAP 1500 Humanities for Engineers (HFDV) - Spring only</td>
</tr>
<tr>
<td>F/SP/SU</td>
<td>F/SP</td>
<td>F/SP</td>
<td>F/SP</td>
</tr>
</tbody>
</table>

### Recommended General Education Courses
- LEAP 1501 Social & Ethical Engineering (BF) - Fall only
- LEAP 1500 Humanities for Engineers (HFDV) - Spring only

^ GEO 1100 can be substituted with GEO 1110 & 1115—Earth Systems & Lab (4)

### Have you completed 3 of the 4 shaded courses? Is your EGPA ≥ 2.50?
If yes, apply for Full Major Status!

### KEY
- Full Major Status Required
- Prerequisite
- Corequisite

Total Required Credit Hours: 124.5

---

**Construction Engineering**  
COLLEGE OF ENGINEERING | THE UNIVERSITY OF UTAH

Updated April 26, 2023
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 3

  - SP 3

- CVEEN 5750: Engineering Law & Contracts
  - SU 24/26 3

SECONDARY TECHNICAL ELECTIVES

Structures
- CVEEN 4222: Steel I
  - SP 3

- CVEEN 3210: Reinforced Timber/Masonry
  - F 4

Transportation
- CVEEN 3520 & 2140: Highway Design
  - SP 3

- CVEEN 3510 & 3515: Sustainable Materials
  - SP 3

Geotech & Materials
- CVEEN 4222: Steel I
  - SP 3

- CVEEN 3210: Reinforced Timber/Masonry
  - F 4

Other (Max 1)
- CVEEN 5920: Special Topics
  - OR
    - Any 3000+ level course from the College of Engineering or an ABET accredited program
  - 3+

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