# B.S. CONSTRUCTION ENGINEERING + B.S. CIVIL ENGINEERING – TRADITIONAL MATH 2020

<table>
<thead>
<tr>
<th>FRESHMAN</th>
<th>Spring (16 hrs)</th>
<th>SOPHOMORE</th>
<th>Fall (17 hrs)</th>
<th>Spring (17 hrs)</th>
<th>JUNIOR</th>
<th>Fall (17 hrs)</th>
<th>Spring (15 hrs)</th>
<th>SENIOR</th>
<th>Fall (15 hrs)</th>
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<tbody>
<tr>
<td>CVEEN 1000 Intro to Civil &amp; Environmental Engineering</td>
<td>CVEEN 1400 Computer-Aided Design</td>
<td>CVEEN 2000 Seminar</td>
<td>CVEEN 2140 Strength of Materials</td>
<td>CVEEN 3310 Geotech I (QI)</td>
<td>CVEEN 3315 Lab</td>
<td>CVEEN 3100 Technical Communication (CW)</td>
<td>CVEEN 4221 Concrete I (QI)</td>
<td>CVEEN 4900 Professional Practice</td>
<td>CVEEN 4910 Civil Design Capstone</td>
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<tr>
<td>MATH 1050 &amp; 1060 or 1080</td>
<td>MATH 1210 Calculus I (QR)</td>
<td>MATH 1220 Calculus II</td>
<td>MATH 1230</td>
<td>MATH 1230 &amp; PHYS 2210</td>
<td>MATH 2210</td>
<td>MATH 2210 &amp; PHYS 2210</td>
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<td>MATH 3060</td>
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<td>PHYS 2210 Physics for Sci &amp; Engineers I</td>
<td>CVEEN 2010 Statics</td>
<td>CVEEN 2300 Engineering Economics</td>
<td>CVEEN 2750 Computer Tools</td>
<td>CVEEN 3510 Materials</td>
<td>CVEEN 3515 Lab</td>
<td>CVEEN 3210 Structural Loads &amp; Analysis (QI)</td>
<td>CVEEN 3740</td>
<td>CVEEN 5720 Project Scheduling</td>
<td>CVEEN 5740 Horizontal Construction</td>
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<td>WRTG 1010</td>
<td>WRTG 2010 Intermediate Writing</td>
<td>CHEM 1220 Gen Chemistry II</td>
<td>MG EN 2400 Surveying</td>
<td>General Ed. Requirement/DV</td>
<td>CVEEN 2750 Intro to Architecture (FF)</td>
<td>ECON 2010 Microeconomics (SP)</td>
<td>CVEEN 5100</td>
<td>CVEEN 3100</td>
<td>CVEEN 5790 Vertical Construction</td>
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<td>MG EN 2400 Surveying</td>
<td>CHEM 1225 Gen Chemistry II Lab</td>
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<td>CHEM 2210 &amp; PHYS 2210</td>
<td>MATH 2250 Differential Equations &amp; Linear Algebra</td>
<td>ECON 2010 Microeconomics (SP)</td>
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### Required General Education Courses
- LEAP 1501 Social & Ethical Engineering (BF) - Fall only
- LEAP 1500 Humanities for Engineers (HHDV) - Spring only

### Recommended General Education Courses
- GEO 1100 Evolving Earth
  - GEO 1100 can be substituted with GEO 1110 & 1115—Earth Systems & Lab (4)

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

*Updated May 17, 2021*
### TECHNICAL ELECTIVES (choose 3)

**Water Resources**
- CVEEN 3410: Hydraulics (Q)
- CVEEN 3415: Lab

**Environmental**
- CVEEN 5410: Environmental Hydrology
- CVEEN 3615: Lab

**Geotech & Materials**
- CVEEN 5605: Water & Wastewater Treatment

**Structures**
- CVEEN 3210
- CVEEN 4222
- CVEEN 5500: Sustainable Materials

**Transportation**
- CVEEN 3520 & 3410: Open-Channel

**Nuclear Engineering**
- CHEM 1220, MATH 1220 & PHYS 2220: Nuclear Principals in Engineering & Science
- NUCL 3000: Neutron Based Engineering

**Other** (Max 1)
- CVEEN 3410: Hydraulics (Q)

*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.*