B.S. CONSTRUCTION ENGINEERING – ENGINEERING MATH 2020

FRESHMAN

Fall (17 hrs)

CVEEN 1000 Intro to Civil & Environmental Engineering — F — 2

MATH (1050 & 1060) or MATH 1080 ↓

MATH 1310 Engineering Calculus I **(QR)** — F/SP — 4

General Ed. Requirement — F/SP/SU — 3

WRTG 1010 ↓

WRTG 2010 Intermediate Writing — F/SP/SU — 3

MATH 1050 ↓

CHEM 1210 Gen Chemistry I — 4

CHEM 1215 Lab — F/SP/SU — 1

Spring (16 hrs)

CVEEN 1400 Computer-Aided Design — SP — 3

MATH 1310 ↓

MATH 1320 Engineering Calculus II — F/SP/SU — 4

MATH 1310 ↓

PHYS 2210 Physics for Sci & Engineers I — F/SP/SU — 4

See catalog for individual prerequisites ↓

CHEM 1220 Gen Chemistry II
or
PHYS 2220 Physics for Sci & Engineers II — F/SP/SU — 4

See catalog for individual prerequisites ↓

CHEM 1225 Gen Chemistry II Lab
or
PHYS 2215 Physics for Sci & Engineers I Lab
or
PHYS 2225 Physics for Sci & Engineers II Lab — F/SP/SU — 1

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

SOPHOMORE

Fall (16.5 hrs)

CVEEN 2000 Seminar — F — 0.5

MATH 1310 & PHYS 2210 ↓

CVEEN 2010 Statics — F/SP — 3

MATH 1310 ↓

CVEEN 2310 Probability & Statistics — F/SP — 3

MATH 1060 ↓

MG EN 2400 Surveying — F/SU — 3

MATH 1320 & PHYS 2210 ↓

MATH 2250 Diff Equations & Linear Algebra — F/SP/SU — 4

ECON 2010 Microeconomics **(BF)** — F/SP/SU — 3

Spring (16 hrs)

CVEEN 2010 ↓

CVEEN 2140 Strength of Materials — F/SP — 3

CVEEN 2300 Engineering Economics — F/SP — 2

MATH 1310 ↓

CVEEN 2750 Computer Tools — SP — 2

General Ed. Requirement/DV — F/SP/SU — 3

ARCH 1615 Intro to Architecture **(FF)** — F/SP — 3

^ GEO 1100 Evolving Earth — F/SP — 3

JUNIOR

Fall (14 hrs)

CVEEN 2140 ↓

CVEEN 3210 Structural Loads & Analysis **(QI)** — F/SP — 3

CVEEN 2140 & 2310 ↓

CVEEN 3310 Geotech I **(QI)** — 3
CVEEN 3315 Lab — F/SP — 1

CVEEN 2140 & 2310 ↓

CVEEN 3510 Materials — 3
CVEEN 3515 Lab — F/SP — 1

CVEEN 2750 ↓

CVEEN 3700 Principles of Construction Eng. — F — 3

Spring (15 hrs)

WRTG 2010 ↓

CVEEN 3100 Technical Communication **(CW)** — F/SP — 3

CVEEN 2140 & 2310 ↓

CVEEN 3520 Transportation — F/SP — 3

CVEEN 2140 & 2310 ↓

CVEEN 3710 Contract Specifications — SP — 3

Design Technical Elective — F/SP — 3

General Ed. Requirement — F/SP/SU — 3

SENIOR

Fall (15 hrs)

CVEEN 3210 ↓

CVEEN 4221 Concrete I — F — 3

CVEEN 3100 ↓

CVEEN 5720 Project Scheduling — F — 3

CVEEN 3310 & 3315 ↓

CVEEN 5740 Horizontal Construction — F — 3

Technical Elective — F/SP — 3

American Institutions — F/SP/SU — 3

Spring (15 hrs)

CVEEN 3100, 3700, 4221, 5720, & 1 Design Tech Ele ↓

CVEEN 4920 Design Capstone — SP — 3

CVEEN 3210 ↓

CVEEN 5780 Facade I — SP — 3

CVEEN 3210 ↓

CVEEN 5790 Vertical Construction — SP — 3

Technical Elective — F/SP — 3

General Ed. Requirement/IR — F/SP/SU — 3

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)

KEY
Full Major Status Required
Prerequisite
Corequisite

Construction Engineering
COLLEGE OF ENGINEERING | THE UNIVERSITY OF UTAH

Updated May 13, 2020

Total Required Credit Hours: 124.5

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 3100 ↓
CVEEN 5710
Cost Estimation & Proposal Writing
F 20/22 3

CVEEN 3100 ↓
CVEEN 5730
Project Management & Contract Admin.
SP 20/22 3

CVEEN 3100 ↓
CVEEN 5750
Engineering Law & Contracts
SU 20/22 3

SECONDARY TECHNICAL ELECTIVES

Structures

CVEEN 3210 ↓
CVEEN 4222
Steel I
SP 3

CVEEN 3210 ↓
CVEEN 5240
Reinforced Timber/Masonry
F 4

Transportation

CVEEN 3520 ↓
CVEEN 5510
Highway Design
SP 3

Geotech & Materials

CVEEN 3310 & 3315 ↓
CVEEN 5305
Introduction to Foundations
F 3

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
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