# B.S. CONSTRUCTION ENGINEERING + B.S. CIVIL ENGINEERING – TRADITIONAL MATH 2021

## FRESHMAN

### Fall (17 hrs)
- **CVEEN 1000** Intro to Civil & Environmental Engineering (F/SP/SU)
- **MATH 1050 & 1060** or **MATH 1210**
- **CHEM 1215** Lab (F/SP/SU)
- **MG EN 2400** Intro to Architecture (FF)
- **ARCH 1615** Intro to Architecture (FF)
- **WRTG 1000** 1
- **CORE**

### Spring (16 hrs)
- **CVEEN 1400** Computer-Aided Design (F/SP/SU)
- **PHYS 2210** Physics for Sci & Engineers I Lab (SP)
- **PHYS 2215** Physics for Sci & Engineers II Lab (SP)
- **CHEM 1210** Calculus I (QR)
- **CHEM 1225** Gen Chemistry II Lab
- **MG EN 2400** Intro to Architecture (FF)
- **WRTG 1000** 1
- **CORE**

## SOPHOMORE

### Fall (17 hrs)
- **CVEEN 2000** Seminar (F/SP)
- **MATH 2210** & **MATH 2250**
- **WRTG 2200** Writing for Sci 
- **MG EN 2400** Intro to Architecture (FF)
- **ARCH 1615** Intro to Architecture (FF)
- **WRTG 1000** 1
- **CORE**

### Spring (17 hrs)
- **CHEM 1225** Calculus III (F/SP/SU)
- **CHEM 2300** Engineering Economics (F/SP/SU)
- **MATH 2210 & 2250** Differential Equations & Linear Algebra (F/SP)
- **ECN 2200** Microeconomics (SP)
- **WRTG 2200** Writing for Sci 
- **MG EN 2400** Intro to Architecture (FF)
- **ARCH 1615** Intro to Architecture (FF)
- **WRTG 1000** 1
- **CORE**

## JUNIOR

### Fall (17 hrs)
- **CVEEN 2400** Internship I (F/SP/SU)
- **MATH 2250** Differential Equations Linear Algebra (F/SP/SU)
- **CGE 2221** Professional Practice (F/SP/SU)
- **CORE**

### Spring (15 hrs)
- **CVEEN 2210** Geotech I (QI) (F/SP/SU)
- **CVEEN 2310** Materials (F/SP/SU)
- **CVEEN 2350** Computer Tools (F/SP/SU)
- **CVEEN 2750** Surveying (F/SP/SU)
- **WRTG 2200** Writing for Sci 
- **MG EN 2400** Intro to Architecture (FF)
- **ARCH 1615** Intro to Architecture (FF)
- **WRTG 1000** 1
- **CORE**

## SENIOR

### Fall (15 hrs)
- **CVEEN 2140** & **2310** Seminar & Lab (F/SP/SU)
- **CVEEN 3210** Project Scheduling (F/SP/SU)
- **CVEEN 3510** Structural Loads & Analysis (QI) (F/SP/SU)
- **WRTG 3210** Writing for Sci 
- **MG EN 2400** Intro to Architecture (FF)
- **ARCH 1615** Intro to Architecture (FF)
- **WRTG 1000** 1
- **CORE**

### Spring (15 hrs)
- **CVEEN 3710** Highway Design (QI) (F/SP/SU)
- **CVEEN 3750** Principles of Construction Eng. (QI) (F/SP/SU)
- **CVEEN 3900** Construction Design Capstone (SP)
- **WRTG 3210** Writing for Sci 
- **MG EN 2400** Intro to Architecture (FF)
- **ARCH 1615** Intro to Architecture (FF)
- **WRTG 1000** 1
- **CORE**

### Total Required Credit Hours: 142.5

**Recommended General Education Courses**
- LEAP 1501 Social & Ethical Engineering (IF) - Fall only
- LEAP 1500 Humanities for Engineers (HHDV) - Spring only
- GEO 1100 can be substituted with GEO 1110 & 1115—Earth Systems & Lab (4)

**Prerequisite**
- Corequisite

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

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*Updated October 27, 2021*
TECHNICAL ELECTIVES (choose 3)

Water Resources

- CVEEN 3410
  - Hydraulics (Q)
  - Lab
- CVEEN 3415

Environmental

- CVEEN 3410
  - Engineering Hydrology
- CVEEN 3610
  - Environmental
- CVEEN 3615
  - Lab
- CVEEN 3605
  - Water & Wastewater Treatment

Geotech & Materials

- CVEEN 5305
  - Intro to Foundations
- CVEEN 5500
  - Sustainable Materials

Structures

- CVEEN 4222
  - Steel I
- CVEEN 5210
  - Structural Analysis II

Transportation

- CVEEN 3560
  - Transportation Planning

Nuclear Engineering

- CHEM 1220, MATH 1220
- PHYS 2220

- CHEM 1220, MATH 1220
- PHYS 2220

Other (Max 1)

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

\(^\text{Courses cannot be used to satisfy two requirements}\)

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.