

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

FRESHMAN		SOPHOMORE		JUNIOR		SENIOR		
Fall (17 hrs)	Spring (16 hrs)	Fall (15.5 hrs)	Spring (17 hrs)	Fall (17 hrs)	Spring (15 hrs)	Fall (15 hrs)	Spring (15 hrs)	Fall (15 hrs)
CVEEN 1000 Intro to Civil & Environmental Engineering F 2 MATH (1050 & 1060) or MATH 1080 ↓ MATH 1210 Calculus I (QR) F/SP/SU 4 General Ed. Requirement F/SP/SU 3 WRTG 2010 Intermediate Writing F/SP/SU 3 MATH 1050 ↓ CHEM 1210 Gen Chemistry I 4 CHEM 1215 Lab 1	CVEEN 1400 Computer-Aided Design SP 3 MATH 1210 ↓ MATH 1220 Calculus II F/SP/SU 4 MATH 1210 ↓ 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 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	CVEEN 2000 Seminar F 0.5 MATH 1210 & PHYS 2210 ↓ CVEEN 2010 Statics F/SP 3 MATH 1210 ↓ CVEEN 2310 Probability & Statistics F/SP 3 MATH 1060 ↓ MG EN 2400 Surveying F/SU 3 MATH 1220 ↓ MATH 2210 Calculus III F/SP/SU 3 ARCH 1615 Intro to Architecture (FF) F/SP 3	CVEEN 2140 Strength of Materials F/SP 3 CVEEN 2300 Engineering Economics F/SP 2 MATH 1210 ↓ CVEEN 2750 Computer Tools SP 2 MATH 2210 & PHYS 2210 ↓ MATH 2250 Differential Equations & Linear Algebra F/SP/SU 4 ^ GEO 1100 Evolving Earth F/SP 3	CVEEN 3310 Geotech I (QI) 3 CVEEN 3315 Lab 1 CVEEN 3510 Materials 3 CVEEN 3515 Lab 1 CVEEN 3520 Transportation F/SP 3 CVEEN 3700 Principles of Construction Eng. F 3 ECON 2010 Microeconomics (BF) F/SP/SU 3	CVEEN 3100 Technical Communication (CW) F/SP 3 CVEEN 3210 Structural Loads & Analysis (QI) F/SP 3 CVEEN 3710 Contract Specifications SP 3 CVEEN 5510 Highway Design (D) SP 3 General Ed. Requirement F/SP/SU 3	CVEEN 4221 Concrete I (D) F 3 CVEEN 5720 Project Scheduling F 3 CVEEN 5790 Vertical Construction F 3 American Institutions F/SP/SU 3 CVEEN 5710 Cost Estimation or CVEEN 5730 Project Management or CVEEN 5750 Engineering Law 3	CVEEN 4900 Professional Practice F/SP 3 CVEEN 4920 Construction Design Capstone SP 3 CVEEN 5740 Horizontal Construction SP 3 CVEEN 5740 Facade I SP 3 Technical Elective F/SP 3	CVEEN 4910 Civil Design Capstone F/SP 3 See catalog for individual prerequisites ↓ CVEEN 5305 Intro to Foundations or CVEEN 5500 Sust. Materials 3 Technical Elective F/SP 3 Technical Elective F/SP 3 General Ed. Requirement/IR F/SP/SU 3

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

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


↓

TECHNICAL ELECTIVES (choose 3)

Water Resources

CVEEN 2140 & 2310 ↓

CVEEN 3410

Hydraulics (QI)

CVEEN 3415

F/SP

Lab

1

CVEEN 3410 & 3415 ↓

CVEEN 5410

Engineering Hydrology

F

3

CHEM 1210 & CVEEN 2140 ↓

CVEEN 3610

Environmental

CVEEN 3615

F/SP

Lab

1

CVEEN 3610 & 3615 & 2140 ↓

CVEEN 5605

Water & Wastewater Treatment

F

3

CVEEN 3310 & 3315 ↓

CVEEN 5305 ^

Intro to Foundations

F

3

CVEEN 3510 & 3515 ↓

CVEEN 5500 ^

Sustainable Materials

SP

3

CVEEN 3210 ↓

CVEEN 4222

Steel I

SP

3

CVEEN 3210 ↓

CVEEN 5210

Structural Analysis II

SP

3

CVEEN 3410 & 3415 ↓

CVEEN 5420

Open-Channel

SP

3

CVEEN 3610 & 3615 & 2140 ↓

CVEEN 5610

Water Chemistry

F

3

CVEEN 3510, 3515, 3520 ↓

CVEEN 5570

Pavement Design

F

3

CVEEN 4221 ↓

CVEEN 5220

Concrete II

SP

3

CVEEN 4222 ↓

CVEEN 5230

Steel II

F

3

CVEEN 3210 ↓

CVEEN 5240

Reinforced Timber/Masonry

F

4

Transportation

CVEEN 3520 & 2140 ↓

CVEEN 5560

Transportation Planning

SP

3

Nuclear Engineering

CHEM 1220, MATH 1220 & PHYS 2220 ↓

NUCL 3000

Nuclear Principals in Engineering & Science

F

3

CHEM 1220, MATH 1220 & PHYS 2220 ↓

NUCL 3100

Neutron Based Engineering

SP

3

Other (Max 1)

Any 3000+ level course form the College of Engineering or an ABET accredited program ^

3+

^ 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