

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

FRESHMAN		SOPHOMORE		JUNIOR		SENIOR		
Fall (17 hrs)	Spring (16 hrs)	Fall (16.5 hrs)	Spring (16 hrs)	Fall (17 hrs)	Spring (14 hrs)	Fall (15 hrs)	Spring (15 hrs)	Fall (15 hrs)
CVEEN 1000 Intro to Civil & Environmental Engineering F2 MATH (1050 & 1060) or MATH 1080 ↓ MATH 1310 Engineering Calculus I (QR) F/SP4 General Ed. Requirement F/SP/SU3 WRTG 1010 ↓ WRTG 2010 Intermediate Writing F/SP/SU3 MATH 1050 ↓ CHEM 1210 Gen Chemistry I 4 CHEM 1215 Lab F/SP/SU1	CVEEN 1400 Computer-Aided Design SP3 MATH 1310 ↓ MATH 1320 Engineering Calculus II F/SP/SU4 MATH 1310 ↓ PHYS 2210 Physics for Sci & Engineers I F/SP/SU4 See catalog for individual prerequisites ↓ CHEM 1220 Gen Chemistry II or PHYS 2220 Physics for Sci & Engineers II F/SP/SU4 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/SU1	CVEEN 2000 Seminar F0.5 MATH 1310 & PHYS 2210 ↓ CVEEN 2010 Statics F/SP3 MATH 1310 ↓ CVEEN 2310 Probability & Statistics F/SP3 MATH 1060 ↓ MG EN 2400 Surveying F/SU3 MATH 1320 ↓ MATH 2250 Differential Equations & Linear Algebra F/SP/SU4 ARCH 1615 Intro to Architecture (FF) F/SP3	CVEEN 2140 Strength of Materials F/SP3 CVEEN 2010 ↓ CVEEN 2300 Engineering Economics F/SP2 MATH 1310 ↓ CVEEN 2750 Computer Tools SP2 CVEEN 2010, PHYS 2210 & MATH 2250 ↓ ME EN 2030 Dynamics F/SP/SU3 General Ed. Requirement/DV ^ GEO 1100 Evolving Earth F/SP3	CVEEN 3210 Structural Loads & Analysis (QI) F/SP3 CVEEN 2140 & 2310 ↓ CVEEN 3410 Hydraulics (QI) 3 CVEEN 3415 Lab F/SP1 CVEEN 2140 & 2310 ↓ CVEEN 3510 Materials 3 CVEEN 3515 Lab F/SP1 CVEEN 2310 & 2140 ↓ CVEEN 3520 Transportation F/SP3 CVEEN 2750 ↓ CVEEN 3700 Principles of Construction Eng. F3 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 and Lab (4)	CVEEN 3100 Technical Communication (CW) F/SP3 CVEEN 2140 & 2310 ↓ CVEEN 3310 Geotech I (QI) 3 CVEEN 3315 Lab F/SP1 CHEM 1210 & CVEEN 2140 ↓ CVEEN 3610 Environmental 3 CVEEN 3615 Lab F/SP1 CVEEN 3520 & 2140 ↓ CVEEN 5510 Highway Design (D) SP3	CVEEN 4221 Concrete I (D) F3 CVEEN 3100 ↓ CVEEN 5720 Project Scheduling F3 CVEEN 3210 ↓ CVEEN 5790 Vertical Construction F3 American Institutions F/SP/SU3 CVEEN 3100 ↓ CVEEN 5710 Cost Estimation or CVEEN 5730 Project Management or CVEEN 5750 Engineering Law 3	CVEEN 3100 Professional Practice F/SP3 CVEEN 3100, 3700, 4221, 5510 & 5720 ↓ CVEEN 4920 Construction Design Capstone SP3 CVEEN 3310 & 3315 ↓ CVEEN 5740 Horizontal Construction SP3 Technical Elective F/SP3 ECON 2010 Microeconomics (BF) F/SP/SU3	CVEEN 4900 Civil Design Capstone F/SP3 See catalog for individual prerequisites ↓ CVEEN 5305 Intro to Foundations or CVEEN 5500 Sust. Materials 3 Technical Elective F/SP3 General Ed. Requirement F/SP/SU3 General Ed. Requirement/IR F/SP/SU3

Department of

Civil & Environmental Engineering

THE UNIVERSITY OF UTAH

Full Major Status Required

Prerequisite

Corequisite

KEY

Full Major Status Required

Prerequisite

Corequisite

TECHNICAL ELECTIVES (choose 3)

Water Resources

CVEEN 3410 & 3415 ↓

CVEEN 5410
Engineering Hydrology

F 3

CVEEN 3410 & 3415 ↓

CVEEN 5420
Open-Channel

SP 3

CVEEN 3610, 3615 & 2140 ↓

CVEEN 5605
Water & Wastewater Treatment

F 3

CVEEN 3610, 3615 & 2140 ↓

CVEEN 5610
Water Chemistry

F 3

Environmental

Geotech & Materials

CVEEN 3310 & 3315 ↓

CVEEN 5305 ^
Intro to Foundations

F 3

CVEEN 3510 & 3515 ↓

CVEEN 5500 ^
Sustainable Materials

SP 3

Structures

CVEEN 3210 ↓

CVEEN 4222
Steel I

SP 3

CVEEN 3210 ↓

CVEEN 5210
Structural Analysis II

SP 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