

B.S. CIVIL ENGINEERING + B.S. CONSTRUCTION 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 (17 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 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 1	CVEEN 2000 Seminar F 0.5 MATH 1210 & PHYS 2210 ↓ CVEEN 2010 Statics F/SP 3 MATH 1210 ↓ CVEEN 2310 Probability & Statistics 3 MATH 1060 ↓ MG EN 2400 Surveying 3 MATH 1220 ↓ MATH 2210 Calculus III 3 ARCH 1615 Intro to Architecture (FF) 3	CVEEN 2010 ↓ CVEEN 2140 Strength of Materials F/SP 3 CVEEN 2300 Engineering Economics F/SP 2 MATH 1210 ↓ CVEEN 2750 Computer Tools 2 CVEEN 2010, PHYS 2210 & MATH 225Q ↓ ME EN 2030 Dynamics 3 MATH 2210 ↓ MATH 2250 Differential Equations & Linear Algebra 4 ^ GEO 1100 Evolving Earth 3	CVEEN 2140 ↓ CVEEN 3210 Structural Loads & Analysis (QI) F/SP 3 CVEEN 2140 & 2310 ↓ CVEEN 3410 Hydraulics (QI) 3 CVEEN 3415 Lab 1 CVEEN 2140 & 2310 ↓ CVEEN 3510 Materials 3 CVEEN 3515 Lab 1 CVEEN 2310 & 2140 ↓ CVEEN 3520 Transportation 3 CVEEN 2750 ↓ CVEEN 3700 Principles of Construction Eng. 3	WRTG 2010 ↓ CVEEN 3100 Technical Communication (CW) F/SP 3 CVEEN 2140 & 2310 ↓ CVEEN 3310 Geotech I (QI) 3 CVEEN 3315 Lab 1 CHEM 1210 & CVEEN 2140 ↓ CVEEN 3610 Environmental 3 CVEEN 3615 Lab 1 CVEEN 3520 & 2140 ↓ CVEEN 5510 Highway Design (D) 3 General Ed. Requirement/DV F/SP/SU 3	CVEEN 3210 ↓ CVEEN 4221 Concrete I (D) 3 CVEEN 3100 ↓ CVEEN 5720 Project Scheduling 3 CVEEN 3210 ↓ CVEEN 5790 Vertical Construction 3 CVEEN 3100 ↓ CVEEN 5710 Cost Estimation or CVEEN 5730 Project Management or CVEEN 5750 Engineering Law 3	CVEEN 3100 ↓ CVEEN 4900 Professional Practice 3 CVEEN 3100, 3700, 4221, 5510 & 5720 ↓ CVEEN 4920 Construction Design Capstone 3 CVEEN 3310 & 3315 ↓ CVEEN 5740 Horizontal Construction 3 ECON 2010 Microeconomics (BF) 3	CVEEN 4900, 4221 & 5510 ↓ CVEEN 4910 Civil Design Capstone 3 See catalog for individual prerequisites ↓ CVEEN 5305 Intro to Foundations or CVEEN 5500 Sust. Materials 3 Technical Elective F/SP 3 General Ed. Requirement F/SP/SU 3 General Ed. Requirement/IR F/SP/SU 3
 Department of Civil & Environmental Engineering THE UNIVERSITY OF UTAH								

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 and Lab (4)

KEY
 Full Major Status Required
 Prerequisite
 Corequisite




TECHNICAL ELECTIVES (choose 3)

Water Resources

CVEEN 3410 & 3415 ↓

CVEEN 5410
Engineering Hydrology

F3

CVEEN 3410 & 3415 ↓

CVEEN 5420
Open-Channel

SP3

CVEEN 3610, 3615 & 2140 ↓

CVEEN 5605
Water & Wastewater Treatment

F3

CVEEN 3610, 3615 & 2140 ↓

CVEEN 5610
Water Chemistry

F3

Geotech & Materials

CVEEN 3310 & 3315 ↓

CVEEN 5305 ^
Intro to Foundations

F3

CVEEN 3510 & 3515 ↓

CVEEN 5500 ^
Sustainable Materials

SP3

Structures

CVEEN 3210 ↓

CVEEN 4222
Steel I

SP3

CVEEN 3210 ↓

CVEEN 5210
Structural Analysis II

SP3

CVEEN 3510, 3515, 3520 ↓

CVEEN 5570
Pavement Design

F3

CVEEN 4221 ↓

CVEEN 5220
Concrete II

SP3

CVEEN 4222 ↓

CVEEN 5230
Steel II

F3

CVEEN 3210 ↓

CVEEN 5240
Reinforced Timber/Masonry

F4

Transportation

CVEEN 3520 & 2140 ↓

CVEEN 5560
Transportation Planning

SP3

Nuclear Engineering

CHEM 1220, MATH 1220 & PHYS 2220 ↓

NUCL 3000
Nuclear Principals in Engineering & Science

F3

CHEM 1220, MATH 1220 & PHYS 2220 ↓

NUCL 3100
Neutron Based Engineering

SP3

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