

B.S. CONSTRUCTION ENGINEERING + B.S. CIVIL ENGINEERING – ENGINEERING MATH 2019

FRESHMAN		SOPHOMORE		JUNIOR		SENIOR		
Fall (17 hrs)	Spring (16 hrs)	Fall (16.5 hrs)	Spring (17 hrs)	Fall (14 hrs)	Spring (15 hrs)	Fall (15 hrs)	Spring (15 hrs)	Fall (15 hrs)
CVEEN 1000 Intro to Civil & Environmental Engineering F23 MATH (1050 & 1060) or MATH 1080 ↓ MATH 1310 Engineering Calculus I (QR) F/SP4 General Ed. Requirement F/SP/SU3 WRTG 2010 Intermediate Writing F/SP/SU3 MATH 1050 ↓ CHEM 1210 Gen Chemistry I F/SP/SU4 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 ECON 2010 Microeconomics (BF) F/SP/SU3	CVEEN 2010 ↓ CVEEN 2140 Strength of Materials F/SP3 CVEEN 2300 Engineering Economics F/SP2 MATH 1310 ↓ CVEEN 2750 Computer Tools SP2 General Ed. Requirement/DV F/SP/SU3 ARCH 1615 Intro to Architecture (FF) F/SP3 GEO 1110 ^ Intro Earth Systems SP3 GEO 1115 Lab SP1	CVEEN 2140 & 2310 ↓ CVEEN 3310 Geotech I (QI) F/SP3 CVEEN 3315 Lab F/SP1 CVEEN 2140 & 2310 ↓ CVEEN 3510 Materials F/SP3 CVEEN 3515 Lab F/SP1 CVEEN 2140 & 2310 ↓ CVEEN 3520 Transportation F/SP3 CVEEN 3700 Principles of Construction Eng. F3 CVEEN 2750 ↓ CVEEN 3700 Principles of Construction Eng. F3 CVEEN 3520 ↓ CVEEN 5510 Highway Design (D) SP3 General Ed. Requirement F/SP/SU3 Recommended General Education Courses LEAP 1501 Social & Ethical Engineering (BF) - Fall only LEAP 1500 Humanities for Engineers (HFDV) - Spring only ^ GEO 1110 & 1115 can be substituted with GEO 1100 - Evolving Earth (3)	WRTG 2010 ↓ CVEEN 3100 Technical Communication (CW) F/SP3 CVEEN 2140 ↓ CVEEN 3210 Structural Loads & Analysis (QI) F/SP3 CVEEN 3710 Contract Specifications SP3 CVEEN 5710 Cost Estimation or CVEEN 5730 Project Management or CVEEN 5750 Engineering Law F/SP3 General Ed. Requirement F/SP/SU3	CVEEN 3210 ↓ CVEEN 4221 Concrete I (D) F3 CVEEN 3100 ↓ CVEEN 5720 Project Scheduling F3 CVEEN 3310 & 3315 ↓ CVEEN 5740 Horizontal Construction F3 CVEEN 3100 ↓ CVEEN 5710 Cost Estimation or CVEEN 5730 Project Management or CVEEN 5750 Engineering Law F/SP3 CVEEN 3210 ↓ CVEEN 5780 Facade I SP3 CVEEN 3210 ↓ CVEEN 5790 Vertical Construction SP3 CVEEN 3100 ↓ CVEEN 5710 Cost Estimation or CVEEN 5730 Project Management or CVEEN 5750 Engineering Law F/SP3 CVEEN 3100 ↓ CVEEN 4900 Professional Practice F/SP3 CVEEN 3100, 3700, 4221, 5510 & 5720 ↓ CVEEN 4920 Construction Design Capstone SP3 CVEEN 3210 ↓ CVEEN 5780 Facade I SP3 CVEEN 3210 ↓ CVEEN 5790 Vertical Construction SP3 CVEEN 3100 ↓ CVEEN 5710 Cost Estimation or CVEEN 5730 Project Management or CVEEN 5750 Engineering Law F/SP3 CVEEN 4900, 4221 & 5510 ↓ CVEEN 4910 Civil Design Capstone F/SP3 See catalog for individual prerequisites ↓ CVEEN 5305 Intro to Foundations or CVEEN 5500 Sust. Materials SP3 Technical Elective F/SP3 Technical Elective F/SP3 Technical Elective F/SP3 General Ed. Requirement/IR F/SP/SU3		
Have you completed 3 of the 4 shaded courses? Is your EGPA ≥2.50? If yes, apply for Full Major Status!								
 Construction Engineering COLLEGE OF ENGINEERING THE UNIVERSITY OF UTAH Updated November 25, 2019								
KEY Full Major Status Required Prerequisite Corequisite  								
Total Required Credit Hours: 140.5								

Recommended General Education Courses
LEAP 1501 Social & Ethical Engineering (BF) - Fall only
LEAP 1500 Humanities for Engineers (HFDV) - Spring only

^ GEO 1110 & 1115 can be substituted with
GEO 1100 - Evolving Earth (3)

TECHNICAL ELECTIVES (choose 3)

Water Resources

CVEEN 2140 & 2310 ↓

CVEEN 3410
Hydraulics (QI)

CVEEN 3415
Lab

F

3

1

CVEEN 3410 & 3415 ↓

CVEEN 5410
Engineering
Hydrology

F

3

CHEM 1210 & CVEEN 2140 ↓

CVEEN 3610
Environmental

CVEEN 3615
Lab

F/SP

3

1

CVEEN 3610 & 3615 ↓

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 ↓

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 ↓

CVEEN 5560
Transportation
Planning

SP

3

Nuclear Engineering

CHEM 1220, MATH 1220
& PHYS 2220 ↓

NUCL 3000
Nuclear Principals in
Engineering & Science

F

3

NUCL 3000 ↓

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