



B.S. CONSTRUCTION ENGINEERING + B.S. CIVIL ENGINEERING – ENGINEERING MATH 2022

FRESHMAN		SOPHOMORE		JUNIOR		SENIOR		
Fall (17 hrs)	Spring (16 hrs)	Fall (16.5 hrs)	Spring (16 hrs)	Fall (14 hrs)	Spring (15 hrs)	Fall (15 hrs)	Spring (15 hrs)	Fall (15 hrs)
CVEEN 1000 Intro to Civil & Environmental Engineering F 2	CVEEN 1400 Computer-Aided Design SP 3	CVEEN 2000 Seminar F 0.5	CVEEN 2010 ↓ CVEEN 2140 Strength of Materials F/SP 3	CVEEN 2140 & 2310 ↓ CVEEN 3310 Geotech I (QI) 3 CVEEN 3315 Lab 1 F/SP	WRTG 2010 ↓ CVEEN 3100 Technical Communication (CW) F/SP 3	CVEEN 3210 ↓ CVEEN 4221 Concrete I (D) F 3	CVEEN 3100 ↓ CVEEN 4900 Professional Practice F/SP 3	CVEEN 4900, 4221 & 5510 ↓ CVEEN 4910 Civil Design Capstone F/SP 3
MATH (1050 & 1060) or MATH 1080 ↓ MATH 1310 Engineering Calculus I (QR) F/SP 4	MATH 1310 ↓ MATH 1320 Engineering Calculus II F/SP/SU 4	MATH 1310 & PHYS 2210 ↓ CVEEN 2010 Statics F/SP 3	CVEEN 2320 Engineering Economics F/SP 2	CVEEN 2140 & 2310 ↓ CVEEN 3510 Materials 3 CVEEN 3515 Lab 1 F/SP	CVEEN 2140 ↓ CVEEN 3210 Structural Loads & Analysis (QI) F/SP 3	CVEEN 3100 ↓ CVEEN 5720 Project Scheduling F 3	CVEEN 3100, 3700, 4221, 5510 & 5720 ↓ CVEEN 4920 Construction Design Capstone SP 3	See catalog for individual prerequisites ↓ CVEEN 5305 Intro to Foundations or CVEEN 5500 Sust. Materials 3
General Ed. Requirement F/SP/SU 3	MATH 1310 ↓ PHYS 2210 Physics for Sci & Engineers I F/SP/SU 4	CVEEN 2310 Probability & Statistics F/SP 3	MATH 1310 ↓ CVEEN 2750 Computer Tools SP 2	CVEEN 2310 & 2140 ↓ CVEEN 3520 Transportation F/SP 3	CVEEN 3710 Contract Specifications SP 3	CVEEN 3210 ↓ CVEEN 5790 Vertical Construction F 3	CVEEN 3310 & 3315 ↓ CVEEN 5740 Horizontal Construction SP 3	Technical Elective F/SP 3
WRTG 1010 ↓ WRTG 2010 Intermediate Writing F/SP/SU 3	See catalog for individual prerequisites ↓ CHEM 1220 Gen Chemistry II or PHYS 2220 Physics for Sci & Engineers II F/SP/SU 4	MATH 1060 ↓ MG EN 2400 Surveying F/SU 3	General Ed. Requirement/DV F/SP/SU 3	CVEEN 2750 ↓ CVEEN 3700 Principles of Construction Eng. F 3	CVEEN 3520 & CVEEN 2140 ↓ CVEEN 5510 Highway Design (D) SP 3	American Institutions F/SP/SU 3	CVEEN 3210 ↓ CVEEN 5780 Facade I SP 3	Technical Elective F/SP 3
MATH 1050 ↓ CHEM 1210 Gen Chemistry I 4 CHEM 1215 Lab 1 F/SP/SU	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	MATH 1320 & PHYS 2210 ↓ MATH 2250 Differential Equations & Linear Algebra F/SP/SU 4	ARCH 1615 Intro to Architecture (FF) F/SP 3	General Ed. Requirement F/SP/SU 3	General Ed. Requirement/IR F/SP/SU 3	CVEEN 3100 ↓ CVEEN 5710 Cost Estimation or CVEEN 5730 Project Management or CVEEN 5750 Engineering Law 3	Technical Elective F/SP 3	General Ed. Requirement/IR F/SP/SU 3
		ECON 2010 Microeconomics (BF) F/SP/SU 3	^ GEO 1100 Evolving Earth F/SP 3	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)				

Have you completed 3 of the 4 shaded courses? If yes, apply for Full Major Status!

KEY

Full Major Status Required 

Prerequisite 

Corequisite

TECHNICAL ELECTIVES (choose 3)

Water Resources

CVEEN 2140 & 2310 ↓

CVEEN 3410
Hydraulics (QI) 3

CVEEN 3415
Lab 1

F/SP

CVEEN 3410 & 3415 ↓

CVEEN 5410
Engineering Hydrology 3

F

CHEM 1210 & CVEEN 2140 ↓

CVEEN 3610
Environmental 3

CVEEN 3615
Lab 1

F/SP

CVEEN 3610 & 3615 & 2140 ↓

CVEEN 5605
Water & Wastewater Treatment 3

F

CVEEN 3310 & 3315 ↓

CVEEN 5305 ^
Intro to Foundations 3

F

CVEEN 3510 & 3515 ↓

CVEEN 5500 ^
Sustainable Materials 3

SP

CVEEN 3210 ↓

CVEEN 4222
Steel I 3

SP

CVEEN 3210 ↓

CVEEN 5210
Structural Analysis II 3

SP

CVEEN 3410 & 3415 ↓

CVEEN 5420
Open-Channel 3

SP

CVEEN 3610 & 3615 & 2140 ↓

CVEEN 5610
Water Chemistry 3

F

CVEEN 3510, 3515, 3520 ↓

CVEEN 5570
Pavement Design 3

F

CVEEN 4221 ↓

CVEEN 5220
Concrete II 3

SP

CVEEN 4222 ↓

CVEEN 5230
Steel II 3

F

CVEEN 3210 ↓

CVEEN 5240
Reinforced Timber/Masonry 4

F

Transportation

CVEEN 3520 & 2140 ↓

CVEEN 5560
Transportation Planning 3

SP

Nuclear Engineering

CHEM 1220, MATH 1220 & PHYS 2220 ↓

NUCL 3000
Nuclear Principals in Engineering & Science 3

F

CHEM 1220, MATH 1220 & PHYS 2220 ↓

NUCL 3100
Neutron Based Engineering 3

SP

Other (Max 1)

CVEEN 5920
Special Topics OR
Any 3000+ level course from the College of Engineering or an ABET accredited program ^ 3+

^ Courses cannot be used to satisfy two requirements