

B.S. CONSTRUCTION ENGINEERING – TRADITIONAL MATH 2021

FRESHMAN		SOPHOMORE		JUNIOR		SENIOR	
<i>Fall (17 hrs)</i>	<i>Spring (16 hrs)</i>	<i>Fall (15.5 hrs)</i>	<i>Spring (17 hrs)</i>	<i>Fall (17 hrs)</i>	<i>Spring (15 hrs)</i>	<i>Fall (15 hrs)</i>	<i>Spring (15 hrs)</i>
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 ↓ CVEEN 3210 Structural Loads & Analysis (QI) F/SP 3	WRTG 2010 ↓ CVEEN 3100 Technical Communication (CW) F/SP 3	CVEEN 3210 ↓ CVEEN 4221 Concrete I F 3	CVEEN 3100, 3700, 4221, 5720, & 1 Design Tech Ele ↓ CVEEN 4920 Design Capstone SP 3
MATH (1050 & 1060) or MATH 1080 ↓	MATH 1210 ↓	MATH 1210 & PHYS 2210 ↓		CVEEN 2140 & 2310 ↓	CVEEN 2310 & 2140 ↓	CVEEN 3100 ↓	CVEEN 3310 & 3315 ↓
MATH 1210 Calculus I (QR) F/SP/SU 4	MATH 1220 Calculus II F/SP/SU 4	CVEEN 2010 Statics F/SP 3	CVEEN 2300 Engineering Economics F/SP 2	CVEEN 3310 Geotech I (QI) F/SP 3 CVEEN 3315 Lab F/SP 1	CVEEN 3520 Transportation F/SP 3	CVEEN 5720 Project Scheduling F 3	CVEEN 5740 Horizontal Construction SP 3
	MATH 1210 ↓	MATH 1210 ↓	MATH 1210 ↓	CVEEN 2140 & 2310 ↓		CVEEN 3210 ↓	CVEEN 3210 ↓
General Ed. Requirement F/SP/SU 3	PHYS 2210 Physics for Sci & Engineers I F/SP/SU 4	CVEEN 2310 Probability & Statistics F/SP 3	CVEEN 2750 Computer Tools SP 2	CVEEN 3510 Materials F/SP 3 CVEEN 3515 Lab F/SP 1	CVEEN 3710 Contract Specifications SP 3	CVEEN 5790 Vertical Construction F 3	CVEEN 5780 Facade I SP 3
WRTG 1010 ↓	See catalog for individual prerequisites ↓	MATH 1060 ↓		CVEEN 2750 ↓			
WRTG 2010 Intermediate Writing F/SP/SU 3	CHEM 1220 Gen Chemistry II or PHYS 2220 Physics for Sci & Engineers II F/SP/SU 4	MG EN 2400 Surveying F/SU 3	General Ed. Requirement/DV F/SP/SU 3	CVEEN 3700 Principles of Construction Eng. F 3	Design Technical Elective F/SP 3	Technical Elective F/SP 3	Technical Elective F/SP 3
MATH 1050 ↓	See catalog for individual prerequisites ↓	MATH 1220 ↓	MATH 2210 & PHYS 2210 ↓				
CHEM 1210 Gen Chemistry I F/SP/SU 4 CHEM 1215 Lab F/SP/SU 1	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 2210 Calculus III F/SP/SU 3	MATH 2250 Diff Equations & Linear Algebra F/SP/SU 4	ECON 2010 Microeconomics (BF) F/SP/SU 3	General Ed. Requirement F/SP/SU 3	American Institutions F/SP/SU 3	General Ed. Requirement/IR F/SP/SU 3
		ARCH 1615 Intro to Architecture (FF) F/SP 3	^ GEO 1100 Evolving Earth F/SP 3				


Have you completed 3 of the 4 shaded courses? 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 ELECTIVE COURSES

Students must complete **three** technical elective courses.

To graduate with a Bachelor of Science Degree in Construction Engineering you must:

1. Complete at least **one** course from the Primary section.
 2. Complete at least **one** Design course from the Secondary Section. These are designated by a **shaded box**. *Example: CVEEN 5510*
- As long as these requirements are satisfied, you may take the remaining **one** technical elective from either section.

PRIMARY TECHNICAL ELECTIVES

<p>CVEEN 3100 ↓</p> <div style="border: 2px solid black; border-radius: 15px; padding: 10px; width: fit-content; margin: auto;"> <p>CVEEN 5710</p> <p>Cost Estimation & Proposal Writing</p> <p>F 22/24 3</p> </div>	<p>CVEEN 3100 ↓</p> <div style="border: 2px solid black; border-radius: 15px; padding: 10px; width: fit-content; margin: auto;"> <p>CVEEN 5730</p> <p>Project Management & Contract Admin.</p> <p>SP 3</p> </div>	<p>CVEEN 3100 ↓</p> <div style="border: 2px solid black; border-radius: 15px; padding: 10px; width: fit-content; margin: auto;"> <p>CVEEN 5750</p> <p>Engineering Law & Contracts</p> <p>SU 22/24 3</p> </div>
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SECONDARY TECHNICAL ELECTIVES

Structures	Transportation	Geotech & Materials	Architecture	Other (Max 1)
<p>CVEEN 3210 ↓</p> <div style="border: 2px solid black; border-radius: 15px; padding: 10px; width: fit-content; margin: auto;"> <p>CVEEN 4222</p> <p>Steel I</p> <p>SP 3</p> </div>	<p>CVEEN 3520 & 2140 ↓</p> <div style="border: 2px solid black; border-radius: 15px; padding: 10px; width: fit-content; margin: auto;"> <p>CVEEN 5510</p> <p>Highway Design</p> <p>SP 3</p> </div>	<p>CVEEN 3310 & 3315 ↓</p> <div style="border: 2px solid black; border-radius: 15px; padding: 10px; width: fit-content; margin: auto;"> <p>CVEEN 5305</p> <p>Introduction to Foundations</p> <p>F 3</p> </div>	<div style="border: 2px solid black; border-radius: 15px; padding: 10px; width: fit-content; margin: auto;"> <p>ARCH 6371</p> <p>Intensive Materials & Construction</p> <p>F 3</p> </div>	<p>Any 3000+ level course from the College of Engineering or an ABET accredited program</p> <p>3+</p>
<p>CVEEN 3210 ↓</p> <div style="border: 2px solid black; border-radius: 15px; padding: 10px; width: fit-content; margin: auto;"> <p>CVEEN 5240</p> <p>Reinforced Timber/Masonry</p> <p>F 4</p> </div>		<p>CVEEN 3510 & 3515 ↓</p> <div style="border: 2px solid black; border-radius: 15px; padding: 10px; width: fit-content; margin: auto;"> <p>CVEEN 5500</p> <p>Sustainable Materials</p> <p>SP 3</p> </div>		