

B.S. CONSTRUCTION ENGINEERING – TRADITIONAL MATH 2020

<u>FRESHMAN</u>		<u>SOPHOMORE</u>		<u>JUNIOR</u>		<u>SENIOR</u>	
Fall (17 hrs)	Spring (16 hrs)	Fall (15.5 hrs)	Spring (17 hrs)	Fall (17 hrs)	Spring (15 hrs)	Fall (15 hrs)	Spring (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 ↓ 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 2140 & 2310 ↓	CVEEN 3100 ↓	CVEEN 3210 ↓
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) 3 CVEEN 3315 Lab 1	CVEEN 3520 Transportation F/SP 3	CVEEN 5720 Project Scheduling F 3	CVEEN 5780 Facade I SP 3
	MATH 1210 ↓	MATH 1210 ↓	MATH 1210 ↓	CVEEN 2140 & 2310 ↓		CVEEN 3310 & 3315 ↓	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 3 CVEEN 3515 Lab 1	CVEEN 3710 Contract Specifications SP 3	CVEEN 5740 Horizontal Construction F 3	CVEEN 5790 Vertical Construction 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 4 CHEM 1215 Lab 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	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? Is your EGPA ≥ 2.50? If yes, apply for Full Major Status!				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

CVEEN 3100 ↓

CVEEN 5710
Cost Estimation &
Proposal Writing
F 20/22 3

CVEEN 3100 ↓

CVEEN 5730
Project Management
& Contract Admin.
SP 20/22 3

CVEEN 3100 ↓

CVEEN 5750
Engineering Law &
Contracts
SU 20/22 3

SECONDARY TECHNICAL ELECTIVES

Structures

CVEEN 3210 ↓

CVEEN 4222
Steel I
SP 3

CVEEN 3210 ↓

CVEEN 5240
Reinforced
Timber/Masonry
F 4

Transportation

CVEEN 3520 ↓

CVEEN 5510
Highway Design
SP 3

Geotech & Materials

CVEEN 3310 & 3315 ↓

CVEEN 5305
Introduction to
Foundations
F 3

CVEEN 3510 & 3515 ↓

CVEEN 5500
Sustainable
Materials
SP 3

Architecture

ARCH 6371
Intensive Materials
& Construction
F 3

Other (Max 1)

Any 3000+ level
course from the
College of
Engineering or an
ABET accredited
program
3+