

B.S. CONSTRUCTION ENGINEERING – ENGINEERING MATH 2023

FRESHMAN		SOPHOMORE		JUNIOR		SENIOR	
<i>Fall (17 hrs)</i>	<i>Spring (16 hrs)</i>	<i>Fall (16.5 hrs)</i>	<i>Spring (16 hrs)</i>	<i>Fall (14 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 2140 Strength of Materials F/SP 3	CVEEN 3210 Structural Loads & Analysis (QI) F/SP 3	CVEEN 3100 Technical Communication (CW) F/SP 3	CVEEN 4221 Concrete I F 3	CVEEN 4920 Design Capstone SP 3
MATH (1050 & 1060) or MATH 1080 ↓	MATH 1310 ↓	MATH 1310 & PHYS 2210 ↓	CVEEN 2010 ↓	CVEEN 2140 & 2310 ↓	CVEEN 2310 & 2140 ↓	CVEEN 3100 ↓	CVEEN 3100, 3700, 4221, 5720, & 1 Design Tech Ele ↓
MATH 1310 Engineering Calculus I (QR) F/SP 4	MATH 1320 Engineering Calculus II F/SP/SU 4	CVEEN 2010 Statics F/SP 3	CVEEN 2320 Engineering Economics F/SP 2	CVEEN 3310 Geotech (QI) F/SP 3	CVEEN 3520 Transportation F/SP 3	CVEEN 5720 Project Scheduling F 3	CVEEN 5740 Horizontal Construction SP 3
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 F/SP 2	CVEEN 3510 Materials (QI) F/SP 3	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 ↓	MATH 1310 ↓	CVEEN 2140 & 2310 ↓	CVEEN 2140 & 2310 ↓	CVEEN 3210 ↓	CVEEN 3210 ↓
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 3	General Ed. Requirement/DV F/SP/SU 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
MATH 1050 ↓	See catalog for individual prerequisites ↓	MATH 1060 ↓	MATH 1310 ↓	CVEEN 2750 ↓	CVEEN 2750 ↓	CVEEN 3210 ↓	CVEEN 3210 ↓
CHEM 1210 Gen Chemistry I F/SP/SU 4	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 2250 Diff Equations & Linear Algebra F/SP/SU 4	ARCH 1615 Intro to Architecture (FF) F/SP 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
CHEM 1215 Lab F/SP/SU 1		MATH 2250 Diff Equations & Linear Algebra F/SP/SU 4	ARCH 1615 Intro to Architecture (FF) F/SP 3		General Ed. Requirement F/SP/SU 3	American Institutions F/SP/SU 3	General Ed. Requirement/IR F/SP/SU 3
		ECON 2010 Microeconomics (BF) F/SP/SU 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

CVEEN 3100 ↓

CVEEN 5710
Cost Estimation &
Proposal Writing

F 3

CVEEN 3100 ↓

CVEEN 5730
Project Management
& Contract Admin.

SP 3

CVEEN 3100 ↓

CVEEN 5750
Engineering Law &
Contracts

SU 24/26 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 & 2140 ↓

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

Other (Max 1)

CVEEN 5920
Special Topics

OR

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

3+