

B.S. CONSTRUCTION ENGINEERING – ENGINEERING MATH 2018

<u>FRESHMAN</u>		<u>SOPHOMORE</u>		<u>JUNIOR</u>		<u>SENIOR</u>	
<i>Fall</i> (17 hrs)	<i>Spring</i> (16 hrs)	<i>Fall</i> (17.5 hrs)	<i>Spring</i> (16 hrs)	<i>Fall</i> (14 hrs)	<i>Spring</i> (15 hrs)	<i>Fall</i> (15 hrs)	<i>Spring</i> (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 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 2300 Engineering Economics F/SP 2	CVEEN 2140 & 2310 ↓ CVEEN 3310 Geotech I (QI) 3 CVEEN 3315 Lab 1 F/SP	CVEEN 2140 & 2310 ↓ CVEEN 3520 Transportation F/SP 3	CVEEN 3100 ↓ CVEEN 5720 Project Scheduling F 3	CVEEN 3210 ↓ CVEEN 5780 Facade I SP 3
General Ed. Requirement F/SP/SU 3	MATH 1310 ↓ PHYS 2210 Physics for Sci & Engineers I F/SP/SU 4	MATH 1310 ↓ CVEEN 2310 Probability & Statistics F/SP 3	MATH 1310 ↓ CVEEN 2750 Computer Tools SP 2	CVEEN 2140 & 2310 ↓ CVEEN 3510 Materials 3 CVEEN 3515 Lab 1 F/SP	CVEEN 3710 Contract Specifications SP 3	CVEEN 3310 & 3520 ↓ CVEEN 5740 Horizontal Construction F 3	CVEEN 3210 & 3310 ↓ CVEEN 5790 Vertical Construction 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 Construction F 3	Design Technical Elective F/SP 3	Technical Elective F/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 ↓ 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
		GEO 1110 Intro Earth Systems 3 GEO 1115 Lab 1 F/SP	ECON 2010 Microeconomics (BF) F/SP/SU 3	Recommended General Education Courses LEAP 1501 Social & Ethical Engineering (BF) - Fall only LEAP 1500 Humanities for Engineers (HFDV) - Spring only			

Have you completed 3 of the 4 shaded courses? Is your EGPA ≥2.50? If yes, apply for Full Major Status!

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 18/20 3

CVEEN 3100 ↓

CVEEN 5730
Project Management
& Contract Admin.
SP 18/20 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

ENGIN 5790
Business of
Entrepreneurship
F 3