

# B.S. CIVIL ENGINEERING - ENGINEERING MATH 2023


<b>FRESHMAN</b>		<b>SOPHOMORE</b>		<b>JUNIOR</b>		<b>SENIOR</b>	
<i>Fall (17 hrs)</i>	<i>Spring (16 hrs)</i>	<i>Fall (15.5 hrs)</i>	<i>Spring (14 hrs)</i>	<i>Fall (17 hrs)</i>	<i>Spring (17 hrs)</i>	<i>Fall (15 hrs)</i>	<i>Spring (15 hrs)</i>
<b>CVEEN 1000</b> Intro to Civil & Environmental Engineering F 2	<b>CVEEN 1400</b> Computer-Aided Design SP 3	<b>CVEEN 2000</b> Seminar F 0.5	<b>CVEEN 2140</b> Strength of Materials F/SP 3	<b>CVEEN 3210</b> Structural Loads & Analysis (QI) F/SP 3	<b>CVEEN 3100</b> Technical Communication (CW) F/SP 3	<b>CVEEN 4900</b> Professional Practice & Design I F/SP 3	<b>CVEEN 4910</b> Professional Practice & Design II F/SP 3
MATH (1050 & 1060) or MATH 1080 ↓	MATH 1310 ↓	MATH 1310 & PHYS 2210 ↓	MATH 1310 ↓	CVEEN 2140 & 2310 ↓	CVEEN 2140 & 2310 ↓	CVEEN 4900 & 2 Design Technical Electives ↓	
<b>MATH 1310</b> Engineering Calculus I (QR) F/SP 4	<b>MATH 1320</b> Engineering Calculus II F/SP/SU 4	<b>CVEEN 2010</b> Statics F/SP 3	<b>CVEEN 2750</b> Computer Tools SP 2	<b>CVEEN 3410</b> Hydraulics (QI) 3 <b>CVEEN 3415</b> Lab 1	<b>CVEEN 3310</b> Geotech (QI) 3 <b>CVEEN 3315</b> Lab 1	<b>Design Technical Elective</b> F/SP 3	<b>Technical Elective</b> F/SP 3
	MATH 1310 ↓		CVEEN 2010, PHYS 2210 & MATH 2250 ↓	CVEEN 2140 & 2310 ↓	CHEM 1210 & CVEEN 2140 ↓		
<b>General Ed. Requirement</b> F/SP/SU 3	<b>PHYS 2210</b> Physics for Sci & Engineers I F/SP/SU 4	<b>CVEEN 2310</b> Probability & Statistics F/SP 3	<b>ME EN 2030</b> Dynamics F/SP/SU 3	<b>CVEEN 3510</b> Materials (QI) 3 <b>CVEEN 3515</b> Lab 1	<b>CVEEN 3610</b> Environmental 3 <b>CVEEN 3615</b> Lab 1	<b>Technical Elective</b> F/SP 3	<b>Technical Elective</b> F/SP 3
WR TG 1010 ↓	See catalog for individual prerequisites ↓			CVEEN 2310 & 2140 ↓			
<b>WR TG 2010</b> Intermediate Writing F/SP/SU 3	<b>CHEM 1220</b> Gen Chemistry II or <b>PHYS 2220</b> Physics for Sci & Engineers II F/SP/SU 4	<b>CVEEN 2320</b> Engineering Economics F/SP 2	<b>General Ed. Requirement/DV</b> F/SP/SU 3	<b>CVEEN 3520</b> Transportation F/SP 3	<b>Design Technical Elective</b> F/SP 3	<b>Technical Elective</b> F/SP 3	<b>General Ed. Requirement</b> F/SP/SU 3
MATH 1050 ↓	See catalog for individual prerequisites ↓	MATH 1320 & PHYS 2210 ↓					
<b>CHEM 1210</b> Gen Chemistry I 4 <b>CHEM 1215</b> Lab 1	<b>CHEM 1225</b> Gen Chemistry II Lab or <b>PHYS 2215</b> Physics for Sci & Engineers I Lab or <b>PHYS 2225</b> Physics for Sci & Engineers II Lab F/SP/SU 1	<b>MATH 2250</b> Diff Equations & Linear Algebra F/SP/SU 4	<b>Additional Science Requirement</b> F/SP/SU 3	<b>General Ed. Requirement</b> F/SP/SU 3	<b>General Ed. Requirement</b> F/SP/SU 3	<b>American Institutions</b> F/SP/SU 3	<b>General Ed. Requirement/IR</b> F/SP/SU 3
		MATH 1060 ↓					
		<b>MG EN 2400</b> Surveying F/SU 3					


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

□ The **Additional Science Requirement** is satisfied by taking any 1000+ course in the following departments: Biology, Geology & Geophysics, and Atmospheric Sciences.

**Recommended General Education Courses**  
**LEAP 1501** Social & Ethical Engineering (BF) - Fall only  
**LEAP 1500** Humanities for Engineers (HFDV) - Spring only

**KEY**

Full Major Status Required 

Prerequisite 

Corequisite