

Name	
Student ID	
Date	

2024-25 Civil Engineering Checklist

General Math and Science Core Reqs (30 hours) MAT 230 Calculus I MAT 231 Calculus II MAT 305 Calculus III EGR 210 Engineering Computation and Modeling CHE 140 General Chemistry I	4 4 4 3 3
CHE 141L General Chemistry I Lab	1
	4 4
<u> </u>	3
Engineering Core Requirements (24 hours)	
	3
	3
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Civil Engineering Major Requirements (45 hours)	
EGR 222 Engineering Mechanics: Dynamics	3
EGR 226 Mechanics of Materials	3
EGR 326 Engineering Statistics	3
EGR 365 Fluid Mechanics	3
CVE 301 Surveying with Lab	3
	3
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	3
	3
<u> </u>	3
	3 3
Civil Engineering Elective	3
Total Earr	ned
	MAT 231 Calculus II MAT 305 Calculus III EGR 210 Engineering Computation and Modeling CHE 140 General Chemistry I CHE 141L General Chemistry I Lab PHY 201 University Physics I PHY 202 University Physics II Science Elective (Non CHE or PHY) Engineering Core Requirements (24 hours) EGR 101 Introduction to Engineering EGR 151 Programming for Engineers EGR 221 Engineering Mechanics: Statics EGR 242 Linear Circuit Analysis EGR 301 Global Engineering EGR 317 Engineering Economics EGR 491 Engineering Senior Design Civil Engineering Major Requirements (45 hours) EGR 222 Engineering Mechanics: Dynamics EGR 226 Mechanics of Materials EGR 326 Engineering Statistics EGR 365 Fluid Mechanics



2024-25 B.S. Civil Engineering Major Sample Four-Year Plan

Year One									
Fall Semester			Spring Semester						
Requirement Category	Course	Credit Hrs	Requirement Category	Course	Credit Hrs				
Gen Math & Sci: Calculus I	MAT 230	4	Gen Math & Sci: Calculus II	MAT 231	4				
CORE: Intro Engineering	EGR 101	3	Gen Math & Sci: University Physics I	PHY 201	4				
CORE: Programming for Engineers	EGR 151	3	Gen Math & Sci: Gen Chem I	CHE 140	3				
TJP: First Year Seminar	FYS 110	3	Gen Math & Sci: Gen Chem I Lab	CHE 141L	1				
TJP: Intro Theology	THL 105	3	CORE: Intro Computer Aided Design	EGR 156	3				
			TJP: Holistic Health	HWB 110	3				
Semester Hours	16		Semester Hours		18				
Cumulative Hours	16		16 Cumulative Hours		34				
Year Two									
Fall Semes	ter		Spring Seme	Spring Semester					
Requirement Category	Course	Credit Hrs	Requirement Category	Course	Credit Hrs				
Gen Math & Sci: Calculus III	MAT 305	4	Gen Math & Sci: Comp & Modeling	EGR 210	3				
Gen Math & Sci: University Physics II	PHY 202	4	CORE: Lin Circuit Analysis	EGR 242	3				
CORE: Engr Mechanics: Statics	EGR 221	3	MAJ: Engr Mechanics: Dynamics	EGR 222	3				
MAJ: Surveying w/ Lab	CVE 301	3	MAJ: Mechanics of Materials	EGR 226	3				
TJP: Writing and Community	ENG 112	3	MAJ: Science Elective (non-CHE or PHY)	SCI XXX	3				
			TJP: Public Speaking	COM 101	3				
Semester Hours		17	Semester Hours		18				
Cumulative Hours		51	Cumulative Hours		69				
Year Three									
Fall Semes	ter	Spring Semester							
Requirement Category	Course	Credit Hrs	Requirement Category	Course	Credit Hrs				
CORE: Global Engineering	EGR 301	3	CORE: Engineering Economics	EGR 317	3				
MAJ: Fluid Mechanics	EGR 365	3	MAJ: Engr Statistics	EGR 326	3				
MAJ: Civil Engineering Materials	CVE 327	3	MAJ: Soil Mechanics w/Lab	CVE 338	3				
MAJ: Structural Analysis	CVE 330	3	MAJ: Hydraulics and Hydrology	CVE 332	3				
MAJ: Environmental Engr w/ Lab	CVE411	3	MAJ: Reinforced Concrete Design	CVE 430	3				
Semester Hours		15	Semester Hours		15				
Cumulative Hours		84	Cumulative Hours		99				
		Year	Four						
Fall Semes	ter	ter Spring Semester		ster					
Requirement Category	Course	Credit Hrs	Requirement Category	Course	Credit Hrs				
CORE: Senior Design I	EGR 491	3	MAJ: Senior Design II	CVE 492	3				
MAJ: CVE Program Elective	CVE XXX	3	MAJ: CVE Program Elective	CVE XXX	3				
MAJ: Foundation Engineering	CVE 440	3	TJP: Faith & Ethics #2	2 nd THL	3				
TJP: World Language	World Lang.	3	TJP: Health and Well-Being	PSY/SOC	3				
TJP: Cultural/Global	HUM/GLS	3	TJP: Human Nature and Person	PHL 130	3				
Semester Hours		15	Semester Hours		15				
Cumulative Hours		114	Cumulative Hours		129				

^{*}A minimum 2.0 cumulative GPA and a minimum 2.0 major GPA are required for graduation, so monitor your GPA closely. To meet degree requirements, some disciplines require higher grades in each course or a higher cumulative GPA.

This plan is only a sample and will vary by student and course availability.

WSOE-CVE.Rev A.TJP (AC)

Date: 10/01/24