

COLLEGE OF ENGINEERING

Bachelor of Science in Civil Engineering for Full Time Students Four Year Study Plan as of Academic Year 2025/2026

FRESHMAN YEAR (35 Credit Hours)											
FIRST “FALL” SEMESTER						SECOND “SPRING” SEMESTER					
Course Number	Course Title	Credit Hours	Contact Hours		Pre-requisite	Course Number	Course Title	Credit Hours	Contact Hours		Pre-requisite
			Lecture	Lab / Tutorial					Lecture	Lab / Tutorial	
ISLM 1221	Islamic Cultures, Values & Societies	2	2	0		PHED 1112	Healthy Behaviors and Management	1	1	0	PHED 1111
PHED 1111	Active Living Lifestyle	1	1	0	PRFC/PRPW /PREE 0061 or its equivalent	COMM 1322	Written Communication	3	3	0	COMM 1321
COMM 1321	Oral Communication	3	3	0	IELTS/APTIS	UNIV 1212	Critical Thinking & Problem Solving	2	2	0	UNIV 1211
UNIV 1211	Professional Development and Competencies	2	2	0	PRFC/PRPW /PREE 0061 or its equivalent	MATH 1423	Calculus II	4	4	1	MATH 1422
MATH 1422	Calculus I	4	4	1	PRPM 0022	CHEM 1421	Chemistry for Engineers I	4	3	3	PRPM 0022
PHYS 1421	Physics for Engineers I	4	3	3	PRPM 0022	GEEN 2311	Engineering Mechanics I: Statics	3	3	0	PHYS 1421
GEEN 1211	Intro to Engineering	2	2	0	PRPM 0022						
Total		18	17	4		Total		17	16	4	

SOPHOMORE YEAR (35 Credit Hours)											
FIRST "FALL" SEMESTER						SECOND "SPRING" SEMESTER					
Course Number	Course Title	Credit Hours	Contact Hours		Pre-requisite	Course Number	Course Title	Credit Hours	Contact Hours		Pre-requisite
			Lecture	Lab/ Tutorial					Lecture	Studio / Tutorial	
COMM 2321	Technical & Professional Communication	3	3	0	<i>COMM 1322</i>	CVEN 2311	CAD for Civil Engineering	3	2	3	<i>MATH 1324</i>
UNIV 1213	Leadership And Teamwork	2	2	0	<i>UNIV 1212</i>	GEEN 2313	Thermodynamics I	3	3	0	<i>MATH 1423</i> <i>CHEM 1421</i>
MATH 1324	Calculus III	3	3	1	<i>MATH 1423</i>	MATH 2332	Ordinary Differential Equations	3	3	1	<i>MATH 1324</i>
PHYS 1422	Physics for Engineers II	4	3	3	<i>PHYS 1421</i> <i>MATH 1422</i>	MEEN 2313	Solid Mechanics	3	2	3	<i>GEEN 2311</i>
GEEN 2211	Engineering Computing	2	1	3	<i>MATH 1423</i> <i>GEEN 1211</i>	UNIV 1221	Generative AI Prompt Engineering Basics	2	2	0	<i>UNIV 1211</i>
ASSE 2111	Learning Outcome Assessment I	1	1	0	<i>Sophomore Level</i>						
MEEN 2312	Engineering Mechanics II: Dynamics	3	3	0	<i>GEEN 2311</i> <i>MATH 1423</i>	COMM 2322	Writing & Research	3	3	0	<i>COMM 2321</i>
Total		18	16	7		Total		17	15	7	

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JUNIOR YEAR (34 Credit Hours)

FIRST "FALL" SEMESTER						SECOND "SPRING" SEMESTER					
Course Number	Course Title	Credit Hours	Contact Hours		Pre-requisite	Course Number	Course Title	Credit Hours	Contact Hours		Pre-requisite
			Lecture	Lab / Tutorial					Lecture	Studio / Tutorial	
ASSE 3211	Learning Outcome Assessment II	2	2	0	ASSE 2111 & Junior Level	CVEN 3331	Environmental Engineering Fundamental	3	3	0	GEEN 3311
GEEN 3311	Intro to Fluid Mechanics	3	3	0	GEEN 2313	CVEN 3332	Hydraulic Engineering	3	2	3	GEEN 3311
CVEN 3322	Materials in Civil Engineering	3	2	3	MEEN 2313	CVEN 3343	Engineering Probability & Statistics	3	3	0	MATH 1324
CVEN 3311	Structural Analysis	3	3	0	MEEN 2313	CVEN 3312	Reinforced Concrete Design	3	3	0	CVEN 3311
CVEN 3323	Engineering Geology	3	3	0	GEEN 2313	CVEN 3344	Sustainable Engineering	3	3	0	CVEN 3322
CVEN 3341	Engineering Measurement	3	2	3	CVEN 2311	UNIV 2221	Future Skills	2	2	0	UNIV 1221
Total		17	15	6		Total		17	16	3	

SUMMER OF JUNIOR YEAR (3 Credit Hours)

Course Number	Course Title	Credit Hours	Pre-requisite	
CVEN 3301	Internship	3	8 weeks (320 hours) full time	End of Junior Year, 90 Credit Hours

SENIOR YEAR (32 Credit Hours)

FIRST “FALL” SEMESTER						SECOND “SPRING” SEMESTER					
Course Number	Course Title	Credit Hours	Contact Hours		Pre-requisite	Course Number	Course Title	Credit Hours	Contact Hours		Pre-requisite
			Lecture	Lab / Tutorial					Lecture	Lab / Tutorial	
CVEN 4313	Design of Steel Structures	3	3	0	MEEN 2313 CVEN 3312	UNIV 2222	Systems Thinking for Future Innovations	2	2	0	UNIV 2221
CVEN 4323	Intro to Geotechnical Engineering	3	2	3	CVEN 3322 CVEN 3323	CVEN 4314	Construction Management	3	3	0	GEEN 4311
CVEN 4396	Civil Engineering Senior Design I	3	2	3	CVEN 3331 CVEN 3312	CVEN 4397	Civil Engineering Senior Design II	3	2	3	CVEN 4396 GEEN 4311
GEEN 4311	Engineering Economy	3	3	0	CVEN 3343	CVEN XXXX	CE Tech. Elective II	3	3	0	Select one from list.
CVEN 4342	Transportation Engineering	3	3	0	CVEN 3341	Social Science	Social Science Elective	3	3	0	Select one from list.
CVEN XXXX	CE Tech. Elective I	3	3	0	Select one from list.						
Total		18	16	6		Total		14	13	3	

TOTAL DEGREE CREDIT HOURS = 139

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SOCIAL SCIENCE ELECTIVES			
Course Number	Course Title	Credit Hours	Pre-requisites
BSTW 1311	Behavioral Sciences in 3D World	3	None
GEGR 1311	World Regional Geography	3	None
FREN 1311	Introduction to French Language	3	None
FURS 1311	Introduction to Futures Skills	3	None
FUTR 1311	Introduction to Futures Studies	3	None
HIST 1311	World Civilizations	3	None
PSYC 1311	Introduction to Psychology	3	None
SERV 1311	Introduction to Service Learning and Volunteering	3	None
SPAN 1311	Introduction to Spanish Language	3	None
SUST 1311	Introduction to Sustainability	3	None
SYST 1311	Introduction to Systems Thinking	3	None

CIVIL ENGINEERING TECHNICAL ELECTIVES			
Course Number	Course Title	Credit Hours	Pre-requisites
CVEN 4324	Foundation Analysis & Design	3	CVEN 4323: Introduction to Geotechnical Engineering
CVEN 4334	Air Pollution & Control	3	CVEN 3331: Environmental Engineering Fundamental
CVEN 4333	Water & Waste Water Treatment	3	CVEN 3331: Environmental Engineering Fundamental CVEN 3332: Hydraulic Engineering

NOTES:

- Completion of PRPM 0022 Pre-Calculus is required before entry into Civil Engineering.
- This Program of Study applies to ONLY full time students. Minimum of 12 credit hours constitutes full time status.
- Student GPA determines maximum semester course load as per department advisement criteria.
- CVEN major courses may be offered only in the semester shown on this plan.
- CVEN major summer course offerings are not guaranteed.
- Internship experience may not be combined with any courses.

Dr. Andi Asiz

Chair, Civil Engineering

Dr. Jamal Nayfeh

Dean, College of Engineering

Dr. Muhammad Waqar Ashraf

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Human Studies

Dr. Faisal Yousif Al Anezi

Vice President for Academic Affairs