

Academic Plan of Study (APS) for BS in Civil Engineering

120 hours required to complete degree

Courses in **BOLD** require a grade of "C" or better - Effective Fall 2023

Course	Pre/Corequisites	Cr. Hrs	Course	Pre/Corequisites	Cr. Hrs
MATH 1241: Calculus I	MATH 1103 or math placement	3	MATH 1242: Calculus II	MATH 1241	3
Science Elective		3	PHYS 2101: Physics I	MATH 1241	3
ENGR 1201: Intro to Eng I	Co-req: MATH 1241	2	PHYS 2101L: Physics I Lab	Pre/Coreq: PHYS 2101	1
Theme Course 1		3	UWRT 1103: English		3
Theme Course 2		3	ENGR 1202: Intro to Eng II	ENGR 1201 with "C" or better	2
		14	Theme Course 3		3
					15

Course	Pre/Corequisites	Cr. Hrs	Course	Pre/Corequisites	Cr. Hrs
MATH 2241: Calculus III	MATH 1242	3	MATH 2171: Diff. Eq.	MATH 1242	3
CHEM 1251: Chemistry I	MATH 1100 or above	3	CEGR 2103: Surveying and Technical Drawing	ENGR 1202	3
CHEM 1251L: Chemistry I Lab	Pre/Coreq: CHEM 1251	1	CEGR 2154: Design Project Lab (O)	CEGR 2102	2
CEGR 2102: Eng. Econ.	ENGR 1201	3	PHYS 2102: Physics II or CHEM 1252 Chemistry II	PHYS 2101 or CHEM 1251	3
MEGR 2141: Eng Mechanics I (Statics)	PHYS 2101 & MATH 1242 with "C" or better	3	PHYS 2102L: Physics II Lab or CHEM 1252 Chemistry II Lab	Pre/Coreq PHYS 2102 or Pre/Coreq CHEM 1252	1
CTCM 2530		3	MEGR 2144: Solid Mechanics	MEGR 2141 with "C" or better	3
		16	CEGR 3255: Structural Materials Lab (W)	MEGR 2141, pre/coreq MEGR 2144	2
					17

Course	Pre/Corequisites	Cr. Hrs	Course	Pre/Corequisites	Cr. Hrs
CEGR 3143: Hydraulics & Hydrology	MATH 2171 and MEGR 2141	3	CEGR 3161: Transportation Engineering	MATH 2241, CEGR 2102, CEGR 2103, and MEGR 2141	3
CEGR 3141: Environmental Eng	MATH 2171, CHEM 1251, CHEM 1251L, & MEGR 2141	3	CEGR 3153: Transportation Lab (W)	Pre/Coreq: CEGR 3161	2
CEGR 3155: Environmental Lab (W)	Pre/Coreq: CEGR 3141	2	MEGR/ECGR Elective	All require grade of "C" or better CEGR 2161 (PHYS 2102); MEGR 3111 (MATH 2171 & PHYS 2101); MEGR 3121 (MEGR 2141 & MATH 1242)	3
CEGR 3278: Geotechnical Eng	MATH 2171 and MEGR 2144	3	CEGR 3111: Construction Engineering	CEGR 3122, CEGR 3278, and CEGR 3255	3
CEGR 3258: Geotech Lab (W)	Pre/Coreq: CEGR 3278	2	CEGR Design Elective	Check Course Catalog for prerequisites	3
CEGR 3122: Structural Analysis	MATH 2171 and MEGR 2144	3			14
		16			

Course	Pre/Corequisites	Cr. Hrs	Course	Pre/Corequisites	Cr. Hrs
STAT 3128: Prob & Stat	MATH 2241	3	CEGR 3201: Senior Design	Senior Standing in CE, CEGR 2154, 3122, 3141, 3143, 3161, 3278, & 3111 and one Design Elective	3
CEGR 3221/3225	CEGR 3122 & CEGR 3255	3	CEGR Elective	Check Course Catalog for prerequisites	3
CEGR/Technical Elective	Check Course Catalog for prerequisites	3	CEGR Elective	Check Course Catalog for prerequisites	3
CEGR Design Elective	Check Course Catalog for prerequisites	3	CEGR/Technical Elective	Check Course Catalog for prerequisites	3
ENGR 3295: Prof Dev		1	Theme Course 4		3
		13			15

Total Hours = 120