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

120 hours required to complete degree

Courses in **BOLD** require a grade of "C" or better - Effective Fall 25

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
ENGR 1300: Exploring Engineering & Technology		2	**PHYS 2101: Physics I**	Pre/Coreq: MATH 1241	3
ENGR 1301: Foundations of Math & Science		3	**PHYS 2101L: Physics I Lab**	Pre/Coreq: PHYS 2101	1
Theme Course 1		3	**WRDS 1103: Writing & Inquiry**		3
Theme Course 2		3	**ENGR 1302: Logic and Computational Problem Solving**		3
		14	**ENGR 1303: Engr Visualization & Graphical Communication**		3
					16

Course	Pre/Corequisites	Cr. Hrs	Course	Pre/Corequisites	Cr. Hrs
MATH 2241: Calculus III	MATH 1242	3	**MATH 2171: Diff. Eq.**	MATH 1242	3
MEGR 2141: Eng Mechanics I (Statics)	PHYS 2101 & MATH 1242 with a grade of C or above	3	**CHEM 1352: General Chemistry for Engineers**	ENGR 1301 or CHEM 1251 with a grade of C or above	4
BIOL 1110: Principles of Biology		3	**CEGR 2101: Civil Engineering Drawing**	ENGR 1303 with a grade of C or above	2
CEGR 2102: Eng. Econ.	ENGR 1302 with a grade of C or above	3	**CEGR 2154: Design Project Lab**	ENGR 1300 and CEGR 2102 with a grade of C or above	2
CTCM 2530		3	**ESCI 2210: Field Methods in the Earth and Environmental Sciences**	Permission of instructor	3
		15			14

Course	Pre/Corequisites	Cr. Hrs	Course	Pre/Corequisites	Cr. Hrs
CEGR 3141: Environmental Eng	MATH 2171, CHEM 1352, & MEGR 2141 all with a C or above	3	**CEGR 4146: Advanced Engineering Hydraulics**	CEGR 3143 with a C or above	3
CEGR 3143: Hydraulics and Hydrology	MATH 2171 & MEGR 2141 all with a C or above	3	ENVE 3145: Hydraulics Lab	Coreq: CEGR 4146	2
MEGR 3111: Thermodynamics	MATH 1242 & PHYS 2101	3	**CEGR 4242: Wastewater Treatment Design**	CEGR 3141 with a C or above	3
CEGR 3155: Environmental Lab	Pre/Coreq: CEGR 3141	2	**CEGR 4264: Landfill Design or CEGR 4145: Groundwater Resources Engineering**	CEGR 4264: Prerequisite CEGR 3141 with a C or above CEGR4145: Prerequisite CEGR 3143 with a C or above	3
ESCI 4210: Soil Science or ESCI 4233: Geoenvironmental Site Characterization	Permission of Instructor	4	**ENVE 3111: Construction Engineering**	CEGR 3141 with a C or above	2
		15	CEGR Elective		3
					16

Course	Pre/Corequisites	Cr. Hrs	Course	Pre/Corequisites	Cr. Hrs
STAT 3128: Prob & Stat	MATH 2241	3	ENVE 3202: Environmental Systems and Design	Instructor's approval	2
CEGR 4142: Water Treatment Engineering	CEGR 3141 with a C or above	3	**CEGR 4153: Fundamentals of Environmental Microbiology**	CEGR 3141 with a C or above	3
CEGR 4144: Engineering Hydrology	CEGR 3143 with a C or above	3	ENGR 3295: Prof Dev		1
CEGR 4149: Environmental Engineering Principles and Practices	CEGR 3141 with a C or above	3	CEGR/Technical Elective		3
CEGR/Technical Elective		3	Theme Course 3		3
		15	Theme Course 4		3
					15

Total Hours = 120