

2015-16 Approved Eight-Semester Plan for the UALR B.S. in Environmental Engineering Degree (128 credit hours)

Fall Semester				Spring Semester			
	Credit Hours	Course Number	Course Title	Credit Hours	Course Number	Course Title	
1st Year	4	MATH 1451	Calculus I ¹	4	MATH 1452	Calculus II	
	4	CHEM 1402	General Chemistry I ²	4	CHEM 1403	General Chemistry II	
	3	ERSC 1302	Physical Geology	3	PHYS 2321	Physics for Sci/Eng I	
	1	ERSC 1102	Physical Geology Lab	1	PHYS 2121	Physics for Sci/Eng I Lab	
	3	CNMG 1385	Infrastructure, Environment & Society	3	CNMG 1313	Civil Engr Materials with Lab	
	0	CNMG 1085	AEC Seminar	0	CNMG 1085	AEC Seminar	
	15	Total		3			Core: Communication-Written
			18	Total			
2nd Year	4	MATH 2453	Calculus III	3	MATH 3322	Intro to Differential Equations	
	4	BIOL 1400	Evolutionary & Enviro Biology	3	ERSC 4372	Surface Water Hydrology	
	3	CHEM 2310	Analytical Chemistry I	3	CNMG 3357	Intro to Enviro Engr with Lab	
	3	CNMG 2370	Engineering Statics	3	CNMG 3376	Engineering Structural Mechanics	
	0	CNMG 1085	AEC Seminar	3	CNMG 3378	Engineering Thermodynamics	
	3		Core: Communication-Written	0	CNMG 1085	AEC Seminar	
	17	Total		15	Total		
3rd Year	4	BIOL 2401	Microbiology	3	STAT 3352	Applied Statistics I	
	3	CHEM 3350	General Organic Chemistry I	3	CNMG 4357	Water & Wastewater Engineering	
	1	CHEM 3150	General Organic Chemistry I Lab	3	CNMG 4362	Water Resources Engineering	
	3	CNMG 3347	Engr Soil Mechanics with Lab	3	CNMG 4364	Air Pollution Engineering	
	3	CNMG 3374	Hydraulic Engineering with Lab	0	CNMG 1085	AEC Seminar	
	0	CNMG 1085	AEC Seminar	3	POLS 1310	Core: U.S. Traditions	
	3	ECON	Core: Social Sciences³	15	Total		
4th Year	4	ERSC 4473	Hydrogeology	3		Environmental Sci Requirement ⁴	
	3	CNMG 4366	Solid & Hazardous Waste Mgmt	3	CNMG 3302	Engineering Economy	
	3	CNMG 4368	Environmental Risk Assessment	3	CNMG 4369	Soil & Groundwater Remediation	
	1	CNMG 4185	Professional Engr Seminar	2	CNMG 4285	Engineering Design Project	
	0	CNMG 1085	AEC Seminar	0	CNMG 1085	AEC Seminar	
	3		Core: Fine Arts	3	PHIL 2320	Core: Humanities	
	3		Core: History of Civilization	14	Total		
17	Total						

¹Calculus prerequisites: MATH 1303, MATH 1400, or sufficient score on COMPASS math placement test.

²General Chemistry prerequisites: MATH 1302 and sufficient score on pre-test.

³Core: Social Science—Choose any ECON core course.

⁴Environmental Science Requirement—Choose one: CHEM 4342 or ERSC 4322

Additional Requirements: (1) Pass FE exam, (2) Obtain ≥ 800 hours of environmental-related work experience