

**2017-18 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	
<b>1st Year</b>	4	CHEM 1402	General Chemistry I	4	CHEM 1403	General Chemistry II	
	0	CNMG 1085	AEC Seminar <sup>1</sup>	0	CNMG 1085	AEC Seminar <sup>1</sup>	
	3	CNMG 1385	Infrastructure, Environment, and Society <sup>2</sup>	3	ERSC 1302	Physical Geology	
	4	MATH 1451	Calculus I <sup>3</sup>	1	ERSC 1102	Physical Geology Lab	
	3	POLS 1310	American National Government <sup>4</sup>	4	MATH 1452	Calculus II	
	3	RHET 1311	Composition I <sup>5</sup>	3	PHYS 2321	Physics for Sci/Eng I	
	( )	( )	( )	( )	1	PHYS 2121	Physics for Sci/Eng I Lab
<b>17</b>	<b>Total</b>			<b>16</b>	<b>Total</b>		
<b>2nd Year</b>	4	BIOL 140_	Biology Requirement <sup>8</sup>	0	CNMG 1085	AEC Seminar <sup>1</sup>	
	3	CHEM 2310	Analytical Chemistry I	3	CNMG 3357	Intro to Envir Engr with Lab	
	0	CNMG 1085	AEC Seminar <sup>1</sup>	3	CNMG 3376	Engineering Structural Mechanics	
	3	CNMG 2370	Engineering Statics	3	CNMG 3378	Engineering Thermodynamics	
	4	MATH 2453	Calculus III	3	ERSC 4372	Surface Water Hydrology	
	3	STAT 3352	Applied Statistics I	3	MATH 3322	Intro to Differential Equations	
	<b>17</b>	<b>Total</b>			<b>3</b>	<b>RHET 1312</b>	<b>Composition II<sup>6</sup></b>
<b>18</b>	<b>Total</b>			<b>18</b>	<b>Total</b>		
<b>3rd Year</b>	4	BIOL 2401	Microbiology	3	CHEM 3350	General Organic Chemistry I	
	0	CNMG 1085	AEC Seminar <sup>1</sup>	1	CHEM 3150	General Organic Chemistry I Lab	
	3	CNMG 3302	Engineering Economy	0	CNMG 1085	AEC Seminar <sup>1</sup>	
	3	CNMG 3313	Civil Engineering Materials with Lab	3	CNMG 4357	Water and Wastewater Engr	
	3	CNMG 3347	Engineering Soil Mechanics with Lab	3	CNMG 4362	Water Resources Engineering	
	3	CNMG 3374	Hydraulic Engineering with Lab	3	CNMG 4364	Air Pollution Engineering	
	<b>16</b>	<b>Total</b>			<b>3</b>	<b>HIST 131_</b>	<b>History of Civilization Req<sup>t</sup>7</b>
<b>16</b>	<b>Total</b>			<b>16</b>	<b>Total</b>		
<b>4th Year</b>	0	CNMG 1085	AEC Seminar <sup>1</sup>	0	CNMG 1085	AEC Seminar <sup>1</sup>	
	1	CNMG 4185	Professional Engineering Seminar	2	CNMG 4285	Engineering Design Project	
	3	CNMG 4366	Solid & Hazardous Waste Mgmt	3	CNMG 4369	Soil & Groundwater Remediation	
	3	CNMG 4368	Environmental Risk Assessment	3	ECON 23_	Economics Requirement <sup>10</sup>	
	4	ERSC 4473	Hydrogeology	3	PHIL 2321	Ethics and Society: Prof App <sup>11</sup>	
	3	_____ 230_	Fine Arts Requirement <sup>9</sup>	3	_____ 43_	Environmental Sci Requirement <sup>12</sup>	
<b>14</b>	<b>Total</b>			<b>14</b>	<b>Total</b>		

<sup>1</sup>CNMG 1085 should be taken every semester, but can be waived by the program coordinator due to extenuating circumstances.

<sup>2</sup>Other flex courses satisfy core requirements, but only CNMG 1385 satisfies the major requirement.

<sup>3</sup>Prerequisites: MATH 1302 and MATH 1303, or MATH 1401, or sufficient score on math placement test.

<sup>4</sup>Other U.S. history courses satisfy core requirements, but only POLS 1310 satisfies the major requirement.

<sup>5</sup>Both RHET 1311 and RHET 1312 can be replaced by RHET 1320 (sufficient score on composition placement test required).

<sup>6</sup>Only for first-time, full-time students with less than 12 hours of transfer credit; satisfied by any FYC course, e.g., CNMG 1101)

<sup>7</sup>Choose one: HIST 1311 or HIST 1312.

<sup>8</sup>Choose one: BIOL 1400 or BIOL 1401.

<sup>9</sup>Choose one: ARHA 2305 or ARHA 2306 or MCOM 2306 or MUHL 2305 or THEA 2305.

<sup>10</sup>Other social science courses satisfy core requirements, but only ECON 2301 or ECON 2322 satisfy the major requirement.

<sup>11</sup>Other humanities courses satisfy core requirements, but only PHIL 2321 satisfies the major requirement.

<sup>12</sup>Choose one: CHEM 4342 or ERSC 4322

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