

## 2015-16 Approved Eight-Semester Plan for the UALR B.S. in Civil and Construction 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	MATH 1451	Calculus I <sup>1</sup>	4	MATH 1452	Calculus II	
	4	CHEM _____	General Chemistry Requirement <sup>2</sup>	3	PHYS 2321	Physics for Sci/Eng I	
	3	CNMG 1305	Drawings and Specifications	1	PHYS 2121	Physics for Sci/Eng I Lab	
	3	CNMG 1385	Infrastructure, Environment, and Society	3	CNMG 1313	Civil Engr Materials with Lab	
	0	CNMG 1085	AEC Seminar	0	CNMG 1085	AEC Seminar	
	3	_____	Core: Communication-Written	3	CNMG 2313	Const Materials & Methods	
	<b>17</b>	<b>Total</b>		<b>17</b>	<b>Total</b>	Core: Communication-Written	
<b>2nd Year</b>	4	MATH 2453	Calculus III	3	MATH 3322	Intro to Differential Equations	
	3	ERSC 4371	Engineering Geology	3	ERSC 4372	Surface Water Hydrology	
	3	CNMG 2314	MEP Systems	3	CNMG 2316	Construction Surveying with Lab	
	3	CNMG 2370	Engineering Statics	3	CNMG 3357	Intro to Envir Engr with Lab	
	0	CNMG 1085	AEC Seminar	3	CNMG 3376	Engineering Structural Mechanics	
	3	_____	Core: History of Civilization	0	CNMG 1085	AEC Seminar	
	<b>16</b>	<b>Total</b>		<b>18</b>	<b>Total</b>	Core: U.S. Traditions	
<b>3rd Year</b>	3	CNMG 3312	Engineering Structural Analysis	3	STAT 3352	Applied Statistics I	
	3	CNMG 3339	Estimating I	3	CNMG 4323	Construction Administration	
	3	CNMG 3347	Engr Soil Mechanics with Lab	3	CNMG 4351	Foundation Design	
	3	CNMG 3374	Hydraulic Engineering with Lab	3	CNMG 4357	Water and Wastewater Engr	
	0	CNMG 1085	AEC Seminar	3	CNMG 4371	Structural Steel Design	
	3	ECON _____	Core: Social Sciences <sup>3</sup>	0	CNMG 1085	AEC Seminar	
	<b>15</b>	<b>Total</b>		<b>15</b>	<b>Total</b>		
<b>4th Year</b>	3	CNMG 3324	Heavy Civil Construction	3	CNMG 3302	Engineering Economy	
	3	CNMG 4329	Const Planning and Scheduling	3	CNMG 3327	Field Eng and Const Equipment	
	3	CNMG 4334	Construction Contracts and Law	3	CNMG 4342	Construction Safety	
	3	CNMG _____	Civil Engineering Requirement <sup>4</sup>	2	CNMG 4285	Engineering Design Project	
	1	CNMG 4185	Professional Engineering Seminar	0	CNMG 1085	AEC Seminar	
	0	CNMG 1085	AEC Seminar	3	PHIL 2320	Core: Humanities	
	<b>16</b>	<b>Total</b>	Core: Fine Arts	<b>14</b>	<b>Total</b>		

<sup>1</sup>Prerequisites: MATH 1303, MATH 1400, or sufficient score on COMPASS math placement test.

<sup>2</sup>General Chemistry Requirement—Choose one: CHEM 1402 or CHEM 1406 (sufficient score on pre-test required for each).

<sup>3</sup>Core: Social Science—Choose any ECON core course.

<sup>4</sup>Civil Engineering Requirement—Choose one: CNMG 4321, 4354, or 4362.

Additional Requirements: (1) Pass FE exam, (2) Pass AC Exam, (3) Obtain ≥ 800 hours of construction-related work experience.