

**Eight-Semester Plan for the UA Little Rock  
B.S. in Civil and Construction Engineering Degree (128 credit hours)  
Effective Fall 2017**

Fall Semester				Spring Semester			
	Credit Hours	Course Number	Course Title		Credit Hours	Course Number	Course Title
<b>1st Year</b>	4	CHEM 140	General Chemistry Requirement <sup>1</sup>	0	CNMG 1085	AEC Seminar <sup>2</sup>	
	0	CNMG 1085	AEC Seminar <sup>2</sup>	3	CNMG 1305	Drawings and Specifications	
	3	CNMG 1385	Infrastructure, Environment, and Society <sup>3</sup>	3	CNMG 2314	MEP Systems	
	4	MATH 1451	Calculus I <sup>4</sup>	4	MATH 1452	Calculus II	
	3	POLS 1310	American National Government <sup>5</sup>	3	PHYS 2321	Physics for Sci/Eng I	
	3	RHET 1311	Composition I <sup>6</sup>	1	PHYS 2121	Physics for Sci/Eng I Lab	
	( )	( )	( )	( )	3	RHET 1312	Composition II <sup>6</sup>
<b>17</b>	<b>Total</b>			<b>17</b>	<b>Total</b>		
<b>2nd Year</b>	0	CNMG 1085	AEC Seminar <sup>2</sup>	0	CNMG 1085	AEC Seminar <sup>2</sup>	
	3	CNMG 2313	Construction Materials and Methods	3	CNMG 3339	Estimating I	
	3	CNMG 2370	Engineering Statics	3	CNMG 3357	Intro to Envir Engr with Lab	
	3	ERSC 2453	Geology Requirement <sup>8</sup>	3	CNMG 3376	Engineering Structural Mechanics	
	4	MATH 2453	Calculus III	3	ERSC 3322	Hydrology Requirement <sup>9</sup>	
	3	STAT 3352	Applied Statistics I	3	MATH 3322	Intro to Differential Equations	
	<b>16</b>	<b>Total</b>			<b>15</b>	<b>Total</b>	
<b>3rd Year</b>	0	CNMG 1085	AEC Seminar <sup>2</sup>	0	CNMG 1085	AEC Seminar <sup>2</sup>	
	3	CNMG 3302	Engineering Economy	3	CNMG 2316	Construction Surveying with Lab	
	3	CNMG 3312	Engineering Structural Analysis	3	CNMG 3327	Field Engr. and Const Equipment	
	3	CNMG 3313	Civil Engineering Materials with Lab	3	CNMG 4334	Construction Contracts and Law	
	3	CNMG 3347	Engineering Soil Mechanics with Lab	3	CNMG 4357	Water and Wastewater Engr	
	3	CNMG 3374	Hydraulic Engineering with Lab	3	CNMG 4371	Structural Steel Design	
	3	HIST 131	History of Civilization Requirement <sup>10</sup>	<b>15</b>	<b>Total</b>		
<b>18</b>	<b>Total</b>						
<b>4th Year</b>	0	CNMG 1085	AEC Seminar <sup>2</sup>	0	CNMG 1085	AEC Seminar <sup>2</sup>	
	3	ARHA 2306	Introduction to Architecture <sup>11</sup>	2	CNMG 4285	Engineering Design Project	
	1	CNMG 4185	Professional Engineering Seminar	3	CNMG 4329	Const Planning and Scheduling	
	3	CNMG 4321	Reinforced Concrete Design	3	CNMG 4342	Construction Safety	
	3	CNMG 4323	Construction Administration	3	CNMG 4351	Foundation Design	
	3	CNMG 4354	Highway Engineering	3	PHIL 2321	Ethics and Society: Prof App <sup>11</sup>	
	3	ECON 23	Economics Requirement <sup>12</sup>	<b>14</b>	<b>Total</b>		
<b>16</b>	<b>Total</b>						

<sup>1</sup>Choose one: CHEM 1402 or CHEM 1406 (sufficient score required on pre-test taken at UALR Office of Testing Services).

<sup>2</sup>CNMG 1085 should be taken every semester, but can be waived by the program coordinator due to extenuating circumstances.

<sup>3</sup>Other flex courses satisfy core requirements, but only CNMG 1385 satisfies the major requirement.

<sup>4</sup>Prerequisites: MATH 1302 and MATH 1303, or MATH 1401, or sufficient score on math placement test taken at Testing Services.

<sup>5</sup>Other U.S. history courses satisfy core requirements, but only POLS 1310 satisfies the major requirement.

<sup>6</sup>Both RHET 1311 and RHET 1312 can be replaced by RHET 1320 (sufficient score on composition placement test required).

<sup>7</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>8</sup>Choose one: ERSC 4371 or ERSC 1302+1102 or ERSC 1304+1104.

<sup>9</sup>Choose one: ERSC 4372 or ERSC 4473. Note that ERSC 4372 is offered in the spring and ERSC 4473 is offered in the fall.

<sup>10</sup>Choose one: HIST 1311 or HIST 1312.

<sup>11</sup>Other fine arts courses satisfy core requirements, but only ARHA 2306 satisfies the major requirement.

<sup>12</sup>Other social science courses satisfy core requirements, but only ECON 2301 or ECON 2322 satisfy the major requirement.

<sup>13</sup>Other humanities courses satisfy core requirements, but only PHIL 2321 satisfies the major requirement.

Additional Requirements: (1) Pass FE exam, (2) AC Exam Score  $\geq$  210, (3) Document  $\geq$  800 hours of engineering- or construction-related work experience.