

**2017-18 Eight-Semester Plan for the UALR
B.S. in Architectural and Construction Engineering Degree (128 credit hours)**

Fall Semester				Spring Semester			
	Credit Hours	Course Number	Course Title	Credit Hours	Course Number	Course Title	
1st Year	4	CHEM 140_	General Chemistry Requirement ¹	0	CNMG 1085	AEC Seminar ²	
	0	CNMG 1085	AEC Seminar ²	3	CNMG 1305	Drawings and Specifications	
	3	CNMG 1385	Infrastructure, Environment, and Society ³	3	CNMG 2314	MEP Systems	
	4	MATH 1451	Calculus I ⁴	4	MATH 1452	Calculus II	
	3	POLS 1310	American National Government ⁵	3	PHYS 2321	Physics for Sci/Eng I	
	3	RHET 1311	Composition I ⁶	1	PHYS 2121	Physics for Sci/Eng I Lab	
	()	()	()	()	3	RHET 1312	Composition II ⁶
17	Total			17	Total		
2nd Year	0	CNMG 1085	AEC Seminar ²	0	CNMG 1085	AEC Seminar ²	
	3	CNMG 2313	Construction Materials and Methods	3	CNMG 3339	Estimating I	
	3	CNMG 2370	Engineering Statics	3	CNMG 3376	Engineering Structural Mechanics	
	3	ERSC _____	Geology Requirement ⁸	3	CNMG 3378	Engineering Thermodynamics	
	4	MATH 2453	Calculus III	3	MATH 3322	Intro to Differential Equations	
	3	PHYS 2322	Physics for Sci/Eng II	3	SYEN 2315	Circuits and Systems	
	16	Total		15	Total		
3rd Year	0	CNMG 1085	AEC Seminar ²	0	CNMG 1085	AEC Seminar ²	
	3	CNMG 3302	Engineering Economy	3	CNMG 3327	Field Eng and Const Equipment	
	3	CNMG 3312	Engineering Structural Analysis	3	CNMG 4334	Construction Contracts and Law	
	3	CNMG 3313	Civil Engineering Materials with Lab	3	CNMG 4371	Structural Steel Design	
	3	CNMG 3347	Engineering Soil Mechanics with Lab	3	CNMG 4380	HVACR Engr Fundamentals	
	3	CNMG 3374	Hydraulic Engineering with Lab	3	HIST 131_	History of Civilization Req ⁹	
	3	STAT 3352	Applied Statistics I	15	Total		
18	Total						
4th Year	3	ARHA 2306	Introduction to Architecture ¹⁰	0	CNMG 1085	AEC Seminar ²	
	0	CNMG 1085	AEC Seminar ²	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	ECON 23__	Economics Requirement ¹¹	3	PHIL 2321	Ethics and Society: Prof App ¹³	
	3	_____	Engineering Elective ¹²	14	Total		
16	Total						

¹Choose one: CHEM 1402 or CHEM 1406 (sufficient score on pre-test required for each).

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

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

⁴Prerequisites: MATH 1302 and MATH 1303, or MATH 1401, or sufficient score on math placement test.

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

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

⁷Only for first-time, full-time students with less than 12 hours of transfer credit; satisfied by any FYC course, e.g., CNMG 1101)

⁸Choose one: ERSC 4371 or ERSC 1302+1102 or ERSC 1304+1104.

⁹Choose one: HIST 1311 or HIST 1312.

¹⁰Other fine arts courses satisfy core requirements, but only ARHA 2306 satisfies the major requirement.

¹¹Other social science courses satisfy core requirements, but only ECON 2301 or ECON 2322 satisfy the major requirement.

¹²Choose an engineering elective approved by the ARCE program coordinator.

¹³Other 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.