

2015-16 Approved 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	MATH 1451	Calculus I ¹	4	MATH 1452	Calculus II	
	4	CHEM _____	General Chemistry Requirement ²	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	3	CNMG 2313	Const Materials & Methods	
	3	_____	Core: Communication-Written	0	CNMG 1085	AEC Seminar	
	17	Total		17	Total	Core: Communication-Written	
2nd Year	4	MATH 2453	Calculus III	3	MATH 3322	Intro to Differential Equations	
	3	ERSC 4371	Engineering Geology	3	PHYS 2322	Physics for Sci/Eng II	
	3	CNMG 2314	MEP Systems	3	CNMG 3376	Engineering Structural Mechanics	
	3	CNMG 2370	Engineering Statics	3	CNMG 3378	Engineering Thermodynamics	
	0	CNMG 1085	AEC Seminar	0	CNMG 1085	AEC Seminar	
	3	_____	Core: History of Civilization	3	ARHA 2305	Core: Fine Arts	
	16	Total		18	Total	Core: U.S. Traditions	
3rd Year	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	Engineering Soil Mechanics with Lab	3	CNMG 4351	Foundation Design	
	3	CNMG 3374	Hydraulic Engineering with Lab	3	CNMG 4371	Structural Steel Design	
	3	SYEN 2315	Circuits and Systems	3	CNMG 4380	HVACR Engr Fundamentals	
	0	CNMG 1085	AEC Seminar	0	CNMG 1085	AEC Seminar	
	15	Total		15	Total		
4th Year	3	CNMG 4321	Reinforced Concrete Design	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	
	1	CNMG 4185	Professional Engineering Seminar	2	CNMG 4285	Engineering Design Project	
	3	CNMG 2385	Architectural History and Design	0	CNMG 1085	AEC Seminar	
	0	CNMG 1085	AEC Seminar	3	PHIL 2320	Core: Humanities	
	16	Total	Core: Social Sciences ³	14	Total		

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

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

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

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