2015-16 Approved Degree Requirements for the UALR
B.S. Degree in Architectural and Construction Engineering (128 credit hours)

1. UALR General Education Requirements (35 credit hours)

   a. UALR Standard Core (21 hours)
      - Communication-Written (6 hours)
      - History of Civilization (3 hours)
      - U.S. Traditions (3 hours)
      - Fine Arts (3 hours)
      - Humanities (3 hours)
      - Social Sciences (3 hours)

   b. EIT College Core (14 hours)
      - Mathematics (3 hours)
      - Science (8 hours)
      - Additional Math and Science (3 hours)

2. Major Requirements (93 credit hours)

   a. Humanities and Social Science (0 hours beyond the UALR General Education Requirements)
      - ARHA 2305 Introduction to Visual Art
      - ECON 2301 Survey of Economics or ECON 2322 Principles of Microeconomics
      - PHIL 2320 Ethics and Society
      - POLS 1310 American National Government

   b. Mathematics and Science (32 credit hours—18 hours beyond the EIT College Core**)
      - CHEM 1406 General Chemistry for Engineers or CHEM 1402 General Chemistry I
      - **ERSC 4371 Engineering Geology
      - MATH 1451 Calculus I (**1 hour exceeds EIT College Core)
      - MATH 1452 Calculus II (**1 hour exceeds EIT College Core)
      - **MATH 2453 Calculus III
      - **MATH 3322 Introduction to Differential Equations
      - PHYS 2321 Physics for Scientists and Engineers I
      - PHYS 2121 Physics for Scientists and Engineers I Lab
      - **PHYS 2322 Physics for Scientists and Engineers II
      - **STAT 3352 Applied Statistics I
c. **Engineering and Construction (75 credit hours)**
   - CNMG 1085 Architecture, Engineering, and Construction Seminar (each semester)
   - CNMG 1305 Drawings and Specifications
   - CNMG 1313 Civil Engineering Materials with Lab
   - CNMG 1385 Infrastructure, Environment, and Society
   - CNMG 2313 Construction Materials and Methods
   - CNMG 2314 Mechanical, Electrical, and Plumbing (MEP) Systems
   - CNMG 2370 Engineering Statics
   - CNMG 2385 Architectural History and Design
   - CNMG 3302 Engineering Economy
   - CNMG 3312 Engineering Structural Analysis
   - CNMG 3327 Field Engineering and Construction Equipment
   - CNMG 3339 Estimating I
   - CNMG 3347 Engineering Soil Mechanics with Lab
   - CNMG 3374 Hydraulic Engineering with Lab
   - CNMG 3376 Engineering Structural Mechanics
   - CNMG 3378 Engineering Thermodynamics
   - CNMG 4321 Reinforced Concrete Design
   - CNMG 4323 Construction Administration
   - CNMG 4329 Construction Planning and Scheduling
   - CNMG 4334 Construction Contracts and Law
   - CNMG 4342 Construction Safety
   - CNMG 4351 Foundation Design
   - CNMG 4371 Structural Steel Design
   - CNMG 4380 HVACR Engineering Fundamentals
   - CNMG 4185 Professional Engineering Seminar
   - CNMG 4285 Engineering Design Project
   - SYEN 2315 Circuits and Systems

3. **Professional Requirements**
   b. Pass the American Institute of Construction (AIC) Associate Constructor (AC) Examination.
   c. Document at least 800 hours of practical work experience in approved engineering- or construction-related activities, such as student competitions, part-time or full-time employment, internships, cooperative education, community service learning projects, or prior experience.