

# ARCHITECTURAL ENGINEERING CURRICULUM

**Applies to students entering the UTA AREN program from the fall 2018 through the summer 2019**

## FIRST YEAR

ARCH 1301 <sup>C</sup> ..... 3	AREN 1252 ..... 2
ARCH 1341 ..... 3	ENGL 1301 <sup>C</sup> ..... 3
AREN 1105 ..... 1	IE 2308 <sup>C</sup> ..... 3
ENGR 1101 or UNIV 1131..... 1	MATH 2425 <sup>C</sup> ..... 4
ENGR 1250 ..... 2	PHYS 1443 <sup>C</sup> ..... 4
MATH 1426 <sup>C</sup> ..... 4	<u>16</u>
14	

## SECOND YEAR

ARCH 2553 ..... 5	AREN 2221 ..... 2
AREN 2153 ..... 1	AREN 2313 ..... 3
AREN 2311 ..... 3	CHEM 1465 ..... 4
MATH 2326 <sup>C</sup> ..... 3	COMS 2302 <sup>C</sup> ..... 3
PHYS 1444 <sup>C</sup> ..... 4	EE 2320 ..... 3
<u>16</u>	<u>15</u>

## THIRD YEAR

AREN 3110 ..... 1	AREN 3305 ..... 3
AREN 3341 ..... 3	AREN 3301 ..... 3
AREN 3311 ..... 3	AREN 3343 + AREN 3143 ..... 4
MATH 3319 ..... 3	AREN 3331 ..... 3
PHIL 2300 <sup>C</sup> ..... 3	POLS 2312 <sup>C</sup> ..... 3
POLS 2311 <sup>C</sup> ..... 3	<u>16</u>
<u>16</u>	

## FOURTH YEAR

ARCH 4325 ..... 3	ARCH 4326 ..... 3
ARCH 4357 ..... 3	AREN 4347 ..... 3
AREN 4348 ..... 3	AREN 4383 ..... 3
AREN 4352 ..... 3	HIST 1311 <sup>C</sup> ..... 3
HIST 1311 <sup>C</sup> ..... 3	<u>12</u>
<u>15</u>	

See "Architectural Engineering Course Sequence" on the reverse side for frequency of the course offerings.  
Six (6) hours of Foreign Language are required for students who have not had 2 units of high school foreign language.

## REQUIRED COURSE TITLES

<p><b><u>COMMUNICATIONS</u></b></p> <p>ENGL 1301<sup>C</sup> Rhetoric &amp; Composition I</p> <p>COMS 2302<sup>C</sup> Professional &amp; Technical Communication for Science &amp; Engineering</p> <p><b><u>HISTORY</u></b></p> <p>HIST 1311<sup>C</sup> History of the US to 1865</p> <p>HIST 1312<sup>C</sup> History of the US, 1865 to Present</p> <p><b><u>GOVERNMENT/POLITICAL SCIENCE</u></b></p> <p>POLS 2311<sup>C</sup> Government of the United States</p> <p>POLS 2312<sup>C</sup> State and Local Government</p> <p><b><u>MATHEMATICS</u></b></p> <p>MATH 1426<sup>C</sup> Calculus I</p> <p>MATH 2425<sup>C</sup> Calculus II</p> <p>MATH 2326<sup>C</sup> Calculus III (Foundational Component)</p> <p>MATH 3319 Differential Equations and Linear Algebra</p> <p><b><u>LIFE AND PHYSICAL SCIENCES</u></b></p> <p>CHEM 1465 Chemistry for Engineers</p> <p>PHYS 1443<sup>C</sup> General Technical Physics I</p> <p>PHYS 1444<sup>C</sup> General Technical Physics II</p> <p><b><u>LANGUAGE, PHILOSOPHY, &amp; CULTURE</u></b></p> <p>PHIL 2300<sup>C</sup> Introduction to Philosophy</p> <p><b><u>ARCHITECTURE</u></b></p> <p>ARCH 1301<sup>C</sup> Introduction to Architecture and Interior Design</p> <p>ARCH 1341 Design Communications</p> <p>ARCH 2553 Basic Design and Drawing for Engineers</p> <p>ARCH 4325 Environmental Control Systems I</p> <p>ARCH 4326 Environmental Control Systems II</p> <p>ARCH 4357 Building Information Modeling &amp; Visualization</p>	<p><b><u>ARCHITECTURAL ENGINEERING</u></b></p> <p>AREN 1105 Introduction to Civil Engineering</p> <p>AREN 1252 Computer Tools - AutoCAD</p> <p>AREN 2153 Computer Tools - Civil 3D</p> <p>AREN 2221 Dynamics</p> <p>AREN 2311 Statics</p> <p>AREN 2313 Mechanics of Materials I</p> <p>AREN 3110 Civil Engineering Communications</p> <p>AREN 3301 Stochastic Models for Civil Engineering</p> <p>AREN 3305 Basic Fluid Mechanics</p> <p>AREN 3311 Construction Engineering</p> <p>AREN 3331 Mechanical and Electrical Systems</p> <p>AREN 3341 Structural Analysis</p> <p>AREN 3343 Soil Mechanics</p> <p>AREN 3143 Properties and Behavior of Soils</p> <p>AREN 4347 Reinforced Concrete Design</p> <p>AREN 4348 Structural Design in Steel</p> <p>AREN 4352 Professional Practice</p> <p>AREN 4383 Senior Project</p> <p><b><u>OTHER ENGINEERING</u></b></p> <p>ENGR 1300 Engineering Problem Solving</p> <p>EE 2320 Circuit Analysis</p> <p>IE 2308<sup>C</sup> Economics for Engineers</p>
--	---

<sup>C</sup> Satisfies a Core Curriculum Requirement

**DISCLAIMER**

Information provided here and on the Architectural Engineering Advising and Course Selection Guide is to assist students in planning the sequence of courses required for an undergraduate degree in Civil Engineering. However, the authoritative requirements for the degree are contained in the 2017/2018 University of Texas at Arlington Catalog. Students should refer to the current catalog to confirm prerequisite requirements and consult with the Department if additional clarification is required.

**ARCHITECTURAL ENGINEERING PREREQUISITES**

**Students may not attempt an AREN course until they have earned a grade of C or better in the prerequisite course(s) and have satisfied all other requisite requirements.**

**ARCHITECTURAL ENGINEERING COURSE SEQUENCE**

The sequence of courses shown on the front side of this form will usually satisfy the required course prerequisites and allow a student to graduate in four years. However, it may be necessary to modify this course sequence for a number of reasons. An aren Undergraduate Advisor will help select the sequence of courses suitable for each student.

The CE Department intends to offer all required AREN courses each fall and spring semester. Certain AREN courses will also be offered in the summer 11-week semester. The courses selected will depend on anticipated need, faculty availability, and budget. **At this time, students should not plan their long term schedules assuming that particular courses will be offered in summer.**

Architecture courses are offered on a schedule determined by the School of Architecture. The School of Architecture currently (2018/2019) offers ARCH 1301, ARCH 1341, ARCH 2553, and ARCH 4325 in the fall semester, ARCH 4326 in the spring semester, and ARCH 4357 in the fall and spring semesters.