

NAME

UTA ID

Freshman First Semester	
ARCH 1301	Introduction to Architecture and Interior Design Creative Arts Elective
ENGL 1301	Rhetoric and Composition I
AREN 1205	Intro to Architectural Engineering
ENGR 1250	Engineering Problem Solving (MATH 1421 <sup>CO</sup> )
ENGR 1101 UNIV 1131	Entrance to Engineering for Transfer Students
MATH 1426	Calculus I (Qualifying MPT score)

Freshman Second Semester	
AREN 2252	Intro to Construction Drafting (MATH 1421)
IE 2308	Engineering Economy (MATH 1426 <sup>CO</sup> ) Social & Behavioral Sciences Elective
MATH 2425	Calculus II (MATH 1426)
PHYS 1443	General Technical Physics I (MATH 1426) __ PHYS 1441 __ PHYS 1181
*	Language, Philosophy, and Culture Elective

Sophomore First Semester	
ARCH 2341	Design Communications for Engineers
AREN 2311	Statics (PHYS 1443)
HIST 1301*	History of the US to 1865 (ENGL 1301 <sup>CO</sup> )
MATH 2326	Calculus III (MATH 2425)
PHYS 1444	General Technical Physics II (PHYS 1443, MATH 2425 <sup>CO</sup> ) __ PHYS 1442 __ PHYS 1182

Sophomore Second Semester	
ARCH 3357	Design Tech – BIM for Arch/Engrs (AREN 2252)
AREN 2313	Mechanics of Materials I (AREN 2311, MATH 2425)
AREN 2315	Construction Materials & Methods (AREN 1205)
CHEM 1465	Chemistry for Engineers (MATH 1421 <sup>CO</sup> ) CHEM 1441 CHEM 1442
COMS 2302	Prof & Tech Com. for Sci. & Engrs (ENGL 1301, ENGR 1300, 30+ SCH) __ COMS 2305 __ ENGL 2338

Junior First Semester	
AREN 3311	Construction Engineering (IE 2308)
ARCH 3551	Basic Design for Engineers (ARCH 1301, ARCH 2341)
AREN 3341	Structural Analysis (AREN 2313)
MATH 3319	Diff Equations & Linear Algebra (MATH 2326 <sup>CO</sup> ) __ MATH 3318 __ MATH 3330

Junior Second Semester	
ARCH 3336	Structural Systems for Buildings (AREN 3311, AREN 3341)
AREN 3331	Mechanical and Electrical Systems (PHYS 1444)
AREN 3343	Soil Mechanics (AREN 2313, AREN 3143 <sup>CR</sup> )
AREN 3143	Properties and Behavior of Soils (AREN 3343 <sup>CR</sup> )
AREN 3347	Reinforced Concrete Design (AREN 3341)
HIST 1302*	History of the US, 1865 to Present (ENGL 1301 <sup>CO</sup> )

Senior First Semester	
AREN 4309	Thermodynamics for Arch Engrs (CHEM1465 <sup>CO</sup> , MATH2425, PHYS1444)
AREN 4346	Electrical Systems & Lighting for Arch Engrs (MATH 2425, PHYS 1444)
AREN 4348	Structural Design in Steel (AREN 3341)
AREN 4352	Professional Practice
POLS 2311*	Government of the United States

Senior Second Semester	
AREN 43xx	ARCH/AREN Senior Elective (See back for list of electives)
AREN 3301	Stochastic Models (MATH 2425)
AREN 4383	Senior Project (AREN 4348, 4352, All 3000 level courses)
POLS 2312*	State and Local Government

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**Architectural Engineering Course Information**

- A course number shown with an asterisk (HIST 1311\*) is a General Education course. These courses are neither pre-professional nor professional program Architectural Engineering courses.
- A course number shown with normal weight and without an asterisk (AREN 1205) is an Architectural Engineering pre-professional course. A grade of C or better must be earned in each Architectural Engineering pre-professional course.
- A course number shown in bold (**AREN 3341**) is an Architectural Engineering professional program course. Enrollment in a 3000 or 4000 level Architectural Engineering professional program course requires admission to the Architectural Engineering professional program or written permission from the department academic advisor.
- Requisite courses are shown in parentheses (MATH 1323). A requisite course designated <sup>co</sup> (MATH 1421<sup>co</sup>) may be taken concurrently at UTA. A requisite course designated <sup>cr</sup> (AREN 3143<sup>cr</sup>) must be taken concurrently at UTA. All other requisite course are prerequisites. Architectural Engineering majors (AREN, AREN Intended, and AREN UCOL) may not attempt a course before earning a grade of C or better in all prerequisite courses.

**Core Electives**

- Students majoring in Architectural Engineering must take **ARCH 1301**, which is a Creative Arts elective option. If a student has taken a different course from the approved Creative Arts elective list, it will be counted as part of your core curriculum. However, ARCH 1301 will also need to be completed to satisfy the course requirement for the Architectural Engineering degree plan.
- Students majoring in Architectural Engineering must take **IE 2308**, which is a Social & Behavioral Sciences elective option. If a student has taken a different course from the approved Social & Behavioral Sciences elective list, it will be counted as part of your core curriculum. However, IE 2308 will also need to be completed to satisfy the course requirement for the Architectural Engineering degree plan.
- The UTA Architectural Engineering Program requires one (three SCH) Language, Philosophy & Culture Elective. This elective can be chosen from the following list of courses offered at UTA.

**Language, Philosophy, & Culture Elective**

ANTH 2322	Global Cultures	HIST 2377	Flight Culture and the Human Experience
ARAB 2310	Arabic Culture in the World	INTS 1310	Introduction to Popular Culture
ARAB 2314	Intermediate Arabic II	KORE 2310	Korean Culture in the World
ARCH 2300	Masterworks of Western Architecture	KORE 2314	Intermediate Korean II
ART 1317	The Art of Non-Western Traditions	LATN 2314	Latin Level IV
CHIN 2310	Chinese Culture in the World	LING 2371	Language in a Multicultural USA
CHIN 2314	Intermediate Chinese II	MAS 2300	Intro to Mexican American Studies
CLAS 1300	Introduction to Classical Mythology	PHIL 1304	Contemporary Moral Problems
ENGL 2303	Topics in Literature	PHIL 2300	Introduction to Philosophy
ENGL 2309	World Literature	PORT 2314	Intermediate Portuguese II
ENGL 2319	British Literature	RUSS 2310	Russian Culture in the World
ENGL 2329	American Literature	RUSS 2314	Intermediate Russian II
FREN 2310	French and Francophone Cultures in the World	SOCI 1310	Introduction to Popular Culture (proposed)
FREN 2314	Intermediate French II	SPAN 2310	Hispanic Culture in the World
GERM 2310	German Culture in the World	SPAN 2314	Intermediate Spanish II
GERM 2314	Intermediate German II	WOMS 2310	Intro to Women's & Gender Studies
GLOBAL 2301	Introduction to Global Studies		
GREK 2314	Greek Level IV		

**Senior Elective**

Architectural Engineering majors must select one 3-hour course from the following list of Senior Electives.

ARCH 4330	Energy Use and Conservation in Architecture
ARCH 4346	Construction Drawings
AREN 4307	Construction Sustainability
AREN 4326	GIS/Hydrologic & Hydraulic Modeling
AREN 4360	Design of Structural Masonry
AREN 4365	Structural Wood Design