

**REQUIREMENTS FOR THE DEGREE OF
BACHELOR OF SCIENCE IN ARCHITECTURAL ENGINEERING**

Catalog 2020-2021

Accredited by the Engineering Accreditation Commission of ABET, <https://www.abet.org>

NOTICE: IN CASE OF DISAGREEMENT THIS ADVISING SHEET DOES NOT SUPERCEDE TAMUK CATALOG REQUIREMENTS CURRICULUM

FALL SEMESTER	FRESHMAN YEAR	SPRING SEMESTER
AEEN 1310 Computer Based Graphics and Design3	~AEEN 2325 Intro to Developm't in Architecture (AEEN 1310) 3	CEEN 2301 Mechanics I (PHYS 2325 & 2125; co- MATH 2414) 3
ENGL 1301 Rhetoric and Composition3	ENGL 1302 Rhetoric and Composition (ENGL 1301).....3	MATH 2414 Calculus II (MATH 2413).....4
MATH 2413 Calculus I (MATH 1348).....4	PHYS 2326 University Phys. II (PHYS 2325 & 2125; co-MATH 2414).. 3	PHYS 2126 University Physics Lab II (co- PHYS 2326) 1
PHYS 2325 University Physics I (co- MATH 2413).....3	----	----
PHYS 2125 University Physics Lab I (co- PHYS 2325).....1	16	17
UNIV 1201.....2		

SOPHOMORE YEAR		
AEEN 3316 Architectural Design (AEEN 2325)3	AEEN 3303 Structural Analysis (CEEN 3311) 3	HIST 1302 American History.....3
AEEN 3346 Thermal Analysis (MATH 2414 & CEEN 2301)3	MATH 3320 Differential Equations (MATH 2414)3	POLS 2301 Government & Politics of U.S.3
CEEN 3311 Strength of Materials (MATH 2414 & C or higher in CEEN 2301).....3	^ <i>Creative arts</i>3	^ <i>Lang/Phil/Culture</i>3
EEEN 3331 Circuits and EM Devices (PHYS 2326 & 2126).....3	----	----
HIST 1301 American History3	15	18

JUNIOR YEAR		
~AEEN 3335 Environmental Systems for Buildings (C or higher in AEEN 3346; co- CEEN 3392)3	~AEEN 3304 Reinforced Concrete Design (AEEN 3303 & C or higher in CEEN 3311)..... 3	
~AEEN 3337 Building Electrical Systems (EEEN 3331)3	~AEEN 4320 Build. Serv. Engineering. (CEEN 3392 & C or higher in AEEN 3335)..... 3	
~CEEN 3143 Geotechnical Engineering Lab (co- CEEN 3342)..... 1	POLS 2302 Government & Politics of Texas 3	
~CEEN 3342 Geotechnical Engineering (CEEN 3311)3	Mathematics Elective*.....3	
~CEEN 3392 Hydraulics & Fluid Mechanics (C or higher in CEEN 2301)3	^ <i>Communication</i> **.....3	
CHEM 1311 General Inorganic Chemistry I (MATH 1314 & H.S. chemistry or CHEM 1481)3	----	15
CHEM 1111 Gen. Inorg. Chemistry Lab I (co- CHEM 1311) 1		

17		

SENIOR YEAR		
~AEEN 4279 Sen. Des. Project I (AEEN 4316 or 3304, AEEN 3316, & co-AEEN 4320)2	~AEEN 4289 Sen. Des. Project II (AEEN 4279)..... 2	
~AEEN 4326 Construction Engrg. (co- CEEN 3317).....3	~CEEN 3244 Construction Materials (CEEN 3311)..... 2	
CEEN 3317 Engineering Economy (Junior standing in engineering).....3	~CEEN 3145 Construction Materials Lab (co- CEEN 3244) 1	
^ <i>Social/behavioral</i>3	STAT 4303 Statistical Methods (MATH 2414) 3	
Engineering Elective†3	Engineering Elective†3	
Engineering Elective†3	Science Elective††.....3	
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17		

Total Hours Required: 129

Note: Courses listed in parenthesis are prerequisites for the class listed on that line. Corequisite courses are listed in parenthesis, preceded by the prefix co-.

~Courses offered once a year

* Mathematics electives: MATH 3415, MATH 4341, MATH 4372, MATH 4374, or any other approved upper-level mathematics course.

** Strongly recommended: COMS 2374 or ENGL 2374.

† Engineering electives: AEEN 3320, AEEN 3325, AEEN 3331, AEEN 3347, AEEN 3348, AEEN 4310, AEEN 4316, AEEN 4333, AEEN 4336, AEEN 4340, AEEN 4346, CEEN 2212/2113, CEEN 4314, CEEN 4317, CEEN 4350, CEEN 4368; ITEN 4332, and ITEN 4353.

†† Science electives: BIOL 1306, CHEM 1312, GEOL 1303, GEOL 3305.

Students majoring in Architectural Engineering (AEEN) must receive a grade of C or better in all engineering courses (AEEN, CEEN, ITEN, EEEN, etc.).

^ *For Core Curriculum "Components" see "General Requirements for Graduation with a Baccalaureate Degree."*

Each student is responsible for knowing the academic regulations in the Catalog. Unfamiliarity with the regulations does not constitute a valid reason for failure to fulfill them. (Undergraduate Catalog, p. ii).