

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

Catalog 2021-2022

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**

<b>FALL SEMESTER</b>	<b>FRESHMAN YEAR</b>	<b>SPRING SEMESTER</b>	
AEEN 1310 Computer Graphics and Applications .....	3	~AEEN 2325 Intro to Developmnt in Archit (AEEN 1310).....	3
ENGL 1301 Rhetoric and Composition .....	3	CEEN 2301 Mechanics I (PHYS 2325 & 2125; co- MATH 2414).....	3
MATH 2413 Calculus I (MATH 1348).....	4	ENGL 1302 Rhetoric and Composition (ENGL 1301) .....	3
PHYS 2325 University Physics I (co- MATH 2413).....	3	MATH 2414 Calculus II (MATH 2413).....	4
PHYS 2125 University Physics Lab I (co- PHYS 2325).....	1	PHYS 2326 University Phys. II (PHYS 2325/2125; co-MATH 2414) ....	3
GEEN 1201 Engineering as a Career .....	2	PHYS 2126 University Physics Lab II (co- PHYS 2326) .....	1
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	16		17

**SOPHOMORE YEAR**

AEEN 3316 Architectural Design (AEEN 2325) .....	3	AEEN 3303 Structural Analysis (CEEN 3311) .....	3
AEEN 3346 Thermal Analysis (MATH 2414 & CEEN 2301) .....	3	HIST 1302 American History.....	3
CEEN 3311 Strength of Materials (MATH 2414 & C or higher in CEEN 2301) .....	3	MATH 3320 Differential Equations (MATH 2414) .....	3
EEEN 3331 Circuits and EM Devices (PHYS 2326/2126) .....	3	POLS 2301 Government & Politics of U.S. ....	3
HIST 1301 American History .....	3	^ <i>Creative arts</i> .....	3
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	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	~AEEN 3130 Instrumentation Laboratory (AEEN 3335 & co-AEEN 4320).....	1
~CEEN 3342 Geotechnical Engineering (CEEN 3311) .....	3	POLS 2302 Government & Politics of Texas .....	3
~CEEN 3392 Hydraulics & Fluid Mechanics (C or higher in CEEN 2301) .....	3	Mathematics Elective <sup>1</sup> .....	3
CHEM 1311 General Inorganic Chemistry I (MATH 1314 & H.S. chemistry or CHEM 1481) .....	3	^ <i>Communications</i> <sup>2</sup> .....	3
CHEM 1111 Gen. Inorg. Chemistry Lab I (co- CHEM 1311) .....	1		----
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	17		

**SENIOR YEAR**

~AEEN 4279 Sen. Des. Project I (AEEN 4316 or AEEN 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 <sup>3</sup> .....	3	Engineering Elective <sup>3</sup> .....	3
Engineering Elective <sup>3</sup> .....	3	Science Elective <sup>4</sup> .....	3
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	17		14

~Courses offered once a year

Total Hours Required 130

Prerequisite and co-requisite courses are listed in parentheses.

**NOTES:**

<sup>1</sup> Mathematics electives (prerequisites vary):

Recommended MATH 3415, MATH 4341, MATH 4372, MATH 4374, or any other approved upper-level mathematics course.

<sup>2</sup> Strongly recommended: COMS 2374 or ENGL 2374. (Both have ENGL 1302 as prerequisite.)

<sup>3</sup> Engineering electives (prerequisites vary):

AEEN 3325, AEEN 4310, AEEN 4316, AEEN 4333, AEEN 4336, AEEN 4340, AEEN 4346

CEEN 2212/2113, CEEN 3389, CEEN 4314, CEEN 4317, CEEN 4336, CEEN 4350, CEEN 4368

ITEN 4332, ITEN 4353.

<sup>4</sup> Approved science electives: BIOL 1306, CHEM 1312, GEOL 1303, GEOL 3305.

^ For courses listed under Core Curriculum "Components" see "General Requirements for Graduation with a Baccalaureate Degree" in TAMUK undergraduate Catalog. Students may take the class of their choice listed within the Core Curriculum "Components."

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