

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

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 Graphics and Applications .....	3	ENGL 1302 Rhetoric and Composition (ENGL 1301).....	3
ENGL 1301 Rhetoric and Composition .....	3	HIST 1301 American History.....	3
MATH 2413 Calculus I (MATH 1348).....	4	MATH 2414 Calculus II (MATH 2413).....	4
PHYS 2325 University Physics I (co- MATH 2413).....	3	PHYS 2326 University Phys. II (PHYS 2325/2125; co-MATH 2414) ...	3
PHYS 2125 University Physics Lab I (co- PHYS 2325).....	1	PHYS 2126 University Physics Lab II (co- PHYS 2326) .....	1
GEEN 1201 Engineering as a Career .....	2	^ <i>Creative arts</i> .....	3
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	16		17

**SOPHOMORE YEAR**

~CEEN 2113 Surveying Lab (co- CEEN 2212) .....	1	CEEN 3311 Strength of Materials (MATH 2414 & C or higher in CEEN 2301) .....	3
~CEEN 2212 Surveying (AEEN 1310; co- MATH 2413) .....	2	MATH 3320 Differential Equations (MATH 2414) .....	3
CEEN 2301 Mechanics I (PHYS 2325/2125; co- MATH 2414) .....	3	MEEN 2302 Dynamics (C or higher in CEEN 2301) .....	3
CHEM 1311 General Inorganic Chemistry I (MATH 1314 & H.S. chemistry or CHEM 1481).....	3	Computer Elective <sup>1</sup> .....	3
CHEM 1111 Gen. Inorg. Chemistry Lab I (co- CHEM 1311) .....	1	^ <i>Communications</i> <sup>2</sup> .....	3
HIST 1302 American History .....	3	^ <i>Language/Philosophy/Culture</i> .....	3
POLS 2301 Government & Politics of U.S.....	3		----
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	16		

**JUNIOR YEAR**

~CEEN 3143 Geotechnical Engineering Lab (co- CEEN 3342) .....	1	~CEEN 3145 Construction Materials Lab (co- CEEN 3244) .....	1
CEEN 3303 Structural Analysis (CEEN 3311) .....	3	~CEEN 3167 Hydraulics & Fluid Mechanics Lab (CEEN 3392)....	1
~CEEN 3342 Geotechnical Engineering (CEEN 3311) .....	3	~CEEN 3244 Construction Materials (CEEN 3311) .....	2
~CEEN 3392 Hydraulics & Fluid Mechanics (C or higher in CEEN 2301).....	3	~CEEN 3304 Reinforced Concrete Design (CEEN 3303 & C or higher in CEEN 3311).....	3
STAT 4303 Statistical Methods (MATH 2414).....	3	~CEEN 3365 Environmental Engineering (CHEM 1311/1111; CEEN 3392) .....	3
Science Elective <sup>3</sup> .....	3	Math or Science Elective <sup>5</sup> .....	3
	----	Special Elective <sup>4</sup> .....	3
	16		----
			16

**SENIOR YEAR**

CEEN 3317 Engineering Economy (Junior standing in engineering)...	3	~CEEN 4289 Design in Civil Eng. II (CEEN 4279).....	2
~CEEN 4279 Design in Civil Engineering I (co- CEEN 3342/3143, CEEN 4316, CEEN 4362) .....	2	~CEEN 4359 Transportation Eng. (CEEN 2212/2113 & senior standing in engr.) .....	3
~CEEN 4316 Structural Steel Design (CEEN 3303) .....	3	Engineering Elective <sup>6</sup> .....	3
~CEEN 4362 Hydrology (CEEN 3392 and co- STAT 4303) .....	3	Engineering Elective <sup>6</sup> .....	3
POLS 2302 Government & Politics of Texas .....	3	^ <i>Social/behavioral</i> .....	3
CEEN 4350 Professional Preparation (co- CEEN 4279 or CEEN 4289) .....	3		----
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	17		

~ **Courses offered once a year**

Prerequisite and co-requisite courses are listed in parentheses.

Total Hours Required 130

**NOTES:**

<sup>1</sup> Computer Elective: CSEN 2303 or MEEN 1320.

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

<sup>3</sup> Approved science electives: BIOL 1306, GEOL 1303, GEOL 3305.

<sup>4</sup> Special Elective: AEEN 3346 or EEN 3331.

<sup>5</sup> Mathematics or Science Electives (prerequisites vary):

CHEM 1312 or any approved upper-level biology, chemistry, or physics course.

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

<sup>6</sup> Engineering electives (prerequisites vary):

AEEN 4310 or CEEN 3389, 4314, 4317, 4326, 4336, 4340, 4364, 4367, 4368, 4369 or any other approved upper level engineering elective.

^ 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 Civil Engineering must receive a grade of C or better in all engineering courses (AEEN, CEEN, EEN, 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).**