

**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 SUPERSEDE TAMUK CATALOG REQUIREMENTS CURRICULUM**

<b>FALL SEMESTER</b>		<b>FRESHMAN YEAR</b>	<b>SPRING SEMESTER</b>	
AEEN 1310 Computer Graphics.....	3	~AEEN 1302 Architectural History II .....		3
ENGL 1301 Rhetoric and Composition .....	3	CHEM 1311 General Inorganic Chemistry I (MATH 1314 & H.S. chemistry or CHEM 1481) .....		3
MATH 2413 Calculus I (MATH 1348).....	4	CHEM 1111 Gen. Inorg. Chemistry Lab I (c.o.r. CHEM 1311).....		1
PHYS 2325 University Physics I (c.o.r. MATH 2413) .....	3	ENGL 1302 Rhetoric and Composition (ENGL 1301).....		3
PHYS 2125 University Physics Lab I (c.o.r. PHYS 2325) .....	1	HIST 1301 American History.....		3
GEEN 1201 Engineering as a Career .....	2	MATH 2414 Calculus II (MATH 2413) .....		4
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	16			17
<b>FALL SEMESTER</b>		<b>SOPHOMORE YEAR</b>	<b>SPRING SEMESTER</b>	
~CEEN 2113 Surveying Lab (c.o.r. CEEN 2212) .....	1	CEEN 3311 Strength of Materials (MATH 2414 & C or higher in CEEN 2301).....		3
~CEEN 2212 Surveying (AEEN 1310; c.o.r. MATH 2413).....	2	CEEN 3315 Computer Methods in Civil Engineering (c.o.r. AEEN or CEEN 3303) .....		3
CEEN 2301 Statics (PHYS 2325/2125; c.o.r. MATH 2414) .....	3	MATH 3320 Differential Equations (MATH 2414) .....		3
HIST 1302 American History .....	3	MEEN 2302 Dynamics (C or higher in CEEN 2301) .....		3
PHYS 2326 Univ. Physics II (PHYS 2325/2125; c.o.r. MATH 2414).....	3	^ <i>Language/Philosophy/Culture</i> .....		3
PHYS 2126 University Physics Lab II (c.o.r. PHYS 2326) .....	1			---
POLS 2301 Government & Politics of U.S.....	3			15
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	16			
<b>FALL SEMESTER</b>		<b>JUNIOR</b>	<b>SPRING SEMESTER</b>	
~CEEN 3143 Geotechnical Engineering Lab (c.o.r. CEEN 3342) ...	1	~CEEN 3145 Construction Materials Lab (c.o.r. CEEN 3344).....		1
CEEN 3303 Structural Analysis (CEEN 3311) .....	3	~CEEN 3167 Hydraulics & Fluid Mechanics Lab (CEEN 3390)....		1
~CEEN 3342 Geotechnical Engineering (CEEN 3311).....	3	CEEN 3317 Engineering Economics (Jr standing in engineering)....		3
~CEEN 3390 Fluid Mechanics (C or higher in CEEN 2301).....	3	~CEEN 3344 Construction Materials (CEEN 3311).....		3
STAT 4303 Statistical Methods (MATH 2414).....	3	~CEEN 3393 Hydraulic Engineering (CEEN 3390) .....		3
Science Elective <sup>1</sup> .....	3	~CEEN 4359 Prin. of Transp. Eng (c.o.r. CEEN 2212/2113).....		3
	---	Structural Design Elective <sup>2</sup> (CEEN 3303) .....		3
	16			---
				17
<b>FALL SEMESTER</b>		<b>SENIOR</b>	<b>SPRING SEMESTER</b>	
~CEEN 4279 Senior Design Project I (c.o.r. CEEN 3342, CEEN 3143, & CEEN 4362) .....	2	~CEEN 4289 Senior Design Project II (CEEN 4279 and either CEEN 4316 or CEEN 3304) .....		2
~CEEN 4326 Construction Engineering (c.o.r. CEEN 3317).....	3	Engineering Elective <sup>3</sup> .....		3
~CEEN 4362 Hydrology (CEEN 3390 and c.o.r. STAT 4303).....	3	Math and Science Elective <sup>4</sup> .....		3
POLS 2302 Government & Politics of Texas .....	3	^ <i>Social/behavioral</i> .....		3
Engineering Elective <sup>3</sup> .....	3	^ <i>Communications</i> <sup>5</sup> .....		3
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	14			14

~ Courses offered once a year

Total Hours Required 125

Prerequisite courses are listed in parentheses.

c.o.r. = "credit or registration in." Courses listed as c.o.r. may be completed as a prerequisite or taken concurrently.

**NOTES:**

<sup>1</sup> Science Elective: BIOL 1306 or GEOL 1303.

<sup>2</sup> Structural Design Elective: CEEN 3304 or CEEN 4316. Course selected for Structural Design Elective cannot also be used as an Engineering Elective.

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

AEEN 3325 or 3310

CEEN 3304, 3365, 3389, 4314, 4316, 4336, 4340, 4350, 4364, 4367, 4368, or 4369.

<sup>4</sup> Math and Science Elective (prerequisites vary):

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

MATH 3415, MATH 4341, MATH 4372, MATH 4374.

<sup>5</sup> Strongly recommended: COMS 2374 or ENGL 2374. (Both have ENGL 1302 as prerequisite.)

^ For courses listed under Core Curriculum "Components" see "General Requirements for Graduation with a Baccalaureate Degree" in TAMUK 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 to graduate. Each student is responsible for knowing the academic regulations in the TAMUK Catalog.**

**B.S. + 1 Course Certificates:** Public Works, Structural Engineering, or Geotechnical & Water Resources Engineering. 128 hours total.

**B.S. + 2 Courses Minor:** Construction Management. 131 hours total.

**CIVIL ENGINEERING**  
**DEGREE PLAN TRACKING SHEET**

Catalog 2024-2025

Student Name: \_\_\_\_\_ K#: \_\_\_\_\_ Advisor: \_\_\_\_\_

**FALL SEMESTER**

**FRESHMAN YEAR**

**SPRING SEMESTER**

AEEN 1310 .....	_____
ENGL 1301 .....	_____
MATH 2413 (MATH 1348) .....	_____
PHYS 2325 (c.o.r. MATH 2413) .....	_____
PHYS 2125 (c.o.r. PHYS 2325) .....	_____
GEEN 1201 .....	_____

~AEEN 1302 .....	_____
CHEM 1311 (MATH 1314 & H.S. Chemistry or CHEM 1481) .....	_____
CHEM 1111 (c.o.r. CHEM 1311) .....	_____
ENGL 1302 (ENGL 1301) .....	_____
HIST 1301 .....	_____
MATH 2414 (MATH 2413) .....	_____

**FALL SEMESTER**

**SOPHOMORE YEAR**

**SPRING SEMESTER**

~CEEN 2113 (c.o.r. CEEN 2212) .....	_____
~CEEN 2212 (AEEN 1310; c.o.r. MATH 2413) .....	_____
CEEN 2301 (PHYS 2325/2125; c.o.r. MATH 2414) .....	_____
HIST 1302 .....	_____
PHYS 2326 (PHYS 2325/2125; c.o.r. MATH 2414) .....	_____
PHYS 2126 (c.o.r. PHYS 2326) .....	_____
POLS 2301 .....	_____

CEEN 3311 (MATH 2414 & C or higher in CEEN 2301) .....	_____
CEEN 3315 (c.o.r. AEEN or CEEN 3303) .....	_____
MATH 3320 (MATH 2414) .....	_____
MEEN 2302 (C or higher in CEEN 2301) .....	_____
^Language/Philosophy/Culture .....	_____

**FALL SEMESTER**

**JUNIOR**

**SPRING SEMESTER**

~CEEN 3143 (c.o.r. CEEN 3342) .....	_____
CEEN 3303 (CEEN 3311) .....	_____
~CEEN 3342 (CEEN 3311) .....	_____
~CEEN 3390 (C or higher in CEEN 2301) .....	_____
STAT 4303 (MATH 2414) .....	_____
Science Elective .....	_____

~CEEN 3145 (c.o.r. CEEN 3244) .....	_____
~CEEN 3167 (CEEN 3390) .....	_____
CEEN 3317 (Junior standing in engineering) .....	_____
~CEEN 3344 (CEEN 3311) .....	_____
~CEEN 3393 (CEEN 3390) .....	_____
~CEEN 4359 (c.o.r. CEEN 2212/2113 & senior standing in engineering) .....	_____
Structural Design Elective .....	_____

**FALL SEMESTER**

**SENIOR**

**SPRING SEMESTER**

~CEEN 4279 (c.o.r. CEEN 3342, CEEN 3143, & CEEN 4362) .....	_____
~CEEN 4326 (c.o.r. CEEN 3317) .....	_____
~CEEN 4362 (CEEN 3390 & c.o.r. STAT 4303) .....	_____
POLS 2302 .....	_____
Engineering Elective .....	_____

~CEEN 4289 (CEEN 4279 and either CEEN 4316 or CEEN 3304) .....	_____
Engineering Elective .....	_____
Math and Science Elective .....	_____
^Social/behavioral .....	_____
^Communications .....	_____

**~ Courses offered once a year**

Total Hours Required 125

Prerequisite and co-requisite courses are listed in parentheses.

c.o.r. = "credit or registration in." Courses listed as c.o.r. may be completed as a prerequisite or taken concurrently.

For lists of elective options, please see degree requirements on reverse page and/or TAMUK Catalog.

All students must complete the following two major sequences of prerequisites (which impact preparedness for the senior design sequence):

1) MATH 2413 & PHYS 2325/2125 → CEEN 2301 → CEEN 3311 → CEEN 3303 → CEEN 3304 or CEEN 4316

2) MATH 2413 & PHYS 2325/2125 → CEEN 2301 → CEEN 3390 & STAT 4303 → CEEN 3393 and CEEN 4362

Grades of "C" or higher are required in CEEN 2301 to advance in the prerequisite sequence. CEEN 3304 also requires a C in CEEN 3311.

**Students majoring in Civil Engineering must receive a grade of C or better in all engineering courses to graduate. Each student is responsible for knowing the academic regulations in the TAMUK Catalog.**

**ADDITIONAL CREDENTIALS:** Transcribed certificates and/or the minor may be earned by taking additional courses.

**B.S. + 1 Course Certificates: 128 hours total.**

- Public Works: CEEN 3304, CEEN 4369, plus 2 courses selected from CEEN 3365, CEEN 4340, or CEEN 4364.
- Structural Engineering: CEEN 3304, CEEN 4316, plus 2 courses selected from CEEN 3389, CEEN 4314, or CEEN 4368.
- Geotechnical & Water Resources Engineering: CEEN 3365, CEEN 4368, plus 1 course selected from CEEN 4364 or 4367.

**B.S. + 2 Courses Minor in Construction Management: 131 hours total.** CEEN 4326, CEEN 4340, plus 4 courses. See catalog for course options. At least 2 courses must be beyond the B.S. degree requirements.