

**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

FALL SEMESTER	FRESHMAN YEAR	SPRING SEMESTER
AEEN 1310 Computer Graphics.....3	~AEEN 1302 Architectural History II 3	
ENGL 1301 Rhetoric and Composition3	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 Career2	MATH 2414 Calculus II (MATH 2413) 4	
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FALL SEMESTER	SOPHOMORE YEAR	SPRING SEMESTER
~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	Science Elective ¹ 3	
CEEN 2301 Statics (PHYS 2325/2125; c.o.r. MATH 2414)3	MATH 3320 Differential Equations (MATH 2414) 3	
HIST 1302 American History3	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	--- 16	---
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FALL SEMESTER	JUNIOR	SPRING SEMESTER
~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	
CEEN 3315 Computer Methods in Civil Engineering (c.o.r. AEEN or CEEN 3303)3	~CEEN 4359 Prin. of Transp. Eng (c.o.r. CEEN 2212/2113)..... 3	
	Structural Design Elective ² (CEEN 3303) 3	
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FALL SEMESTER	SENIOR	SPRING SEMESTER
~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 ³ 3	
~CEEN 4362 Hydrology (CEEN 3390 and c.o.r. STAT 4303).....3	Math and Science Elective ⁴ 3	
POLS 2302 Government & Politics of Texas3	^ <i>Social/behavioral</i> 3	
Engineering Elective ³3	^ <i>Communications</i> ⁵ 3	
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~ 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:

¹ Science Elective: BIOL 1306 or GEOL 1303.

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

³ Engineering Electives (prerequisites vary):

AEEN 3325 or 3310

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

⁴ 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.

⁵ 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 2025-2026

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)
Science Elective
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)
CEEN 3315 (c.o.r. AEEN or CEEN 3303)

~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.