

**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	~ARCH 1302 Architectural History II.....	3
Rhetoric and Composition ¹	3	CHEM 1311 General Inorganic Chemistry I (MATH 1314 & H.S. chemistry or CHEM 1481).....	3
MATH 2413 Calculus I (MATH 1348 or MATH 2412).....	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	Rhetoric and Composition ¹	3
PHYS 2125 University Physics Lab I (c.o.r. PHYS 2325).....	1	American History ¹	3
GEEN 1201 Engineering as a Career.....	2	MATH 2414 Calculus II (MATH 2413).....	4
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	16		17
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 ²	3
CEEN 2301 Statics (PHYS 2325/2125; c.o.r. MATH 2414).....	3	MATH 3320 Differential Equations (MATH 2414).....	3
American History ¹	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	Lang/Phil/Culture ¹	3
PHYS 2126 University Physics Lab II (c.o.r. PHYS 2326).....	1		----
Government/Political Science ¹	3		15

	16		
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 ³ (CEEN 3303).....	3
	16		----
			17
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 ⁴	3
~CEEN 4362 Hydrology (CEEN 3390 and c.o.r. STAT 4303).....	3	Math and Science Elective ⁵	3
Government/Political Science ¹	3	Social/Behavioral ¹	3
Engineering Elective ⁴	3	Communication ¹	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:

¹ See "General Requirements for Graduation with a Baccalaureate Degree" in TAMUK Catalog.

² Science Elective: BIOL 1306 or GEOL 1303.

³ Structural Design Elective: CEEN 3304 or CEEN 4316. Structural Design Elective cannot also be used as an Engineering Elective.

⁴ Engineering Electives (prerequisites vary):

AEEN 3325 or 3310

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

⁵ 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.

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 2026-2027

Student Name: _____ **K#:** _____ **Advisor:** _____

FALL SEMESTER

FRESHMAN YEAR

SPRING SEMESTER

AEEN 1310
Rhetoric and Composition
MATH 2413 (MATH 1348 or MATH 2412).....
PHYS 2325 (c.o.r. MATH 2413).....
PHYS 2125 (c.o.r. PHYS 2325).....
GEEN 1201

~ARCH 1302.....
CHEM 1311 (MATH 1314 & H.S. Chemistry or CHEM 1481).....
CHEM 1111 (c.o.r. CHEM 1311)
Rhetoric and Composition
American History
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).....
American History
PHYS 2326 (PHYS 2325/2125; c.o.r. MATH 2414)
PHYS 2126 (c.o.r. PHYS 2326).....
Government/Political Science

CEEN 3311 (MATH 2414 & C or higher in CEEN 2301).....
Science Elective
MATH 3320 (MATH 2414)
MEEN 2302 (C or higher in CEEN 2301)
Lang/Phil/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)
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)
Government/Political Science
Engineering Elective.....

~CEEN 4289 (CEEN 4279 and either CEEN 4316 or
CEEN 3304)
Engineering Elective.....
Math and Science Elective
Social/Behavioral.....
Communication

~ 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: Academic 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.