

**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 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 2212 Surveying (AEEN 1310; co- MATH 2413)	2
CEEN 2301 Mechanics I (PHYS 2325/2125; co- MATH 2414)	3
CHEM 1311 General Inorganic Chemistry I (MATH 1314 & H.S. chemistry or CHEM 1481).....	3
CHEM 1111 Gen. Inorg. Chemistry Lab I (co- CHEM 1311)	1
HIST 1302 American History	3
POLS 2301 Government & Politics of U.S.....	3

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JUNIOR YEAR	
~CEEN 3143 Geotechnical Engineering Lab (co- CEEN 3342)	1
CEEN 3303 Structural Analysis (CEEN 3311)	3
~CEEN 3342 Geotechnical Engineering (CEEN 3311)	3
~CEEN 3392 Hydraulics & Fluid Mechanics (C or higher in CEEN 2301).....	3
STAT 4303 Statistical Methods (MATH 2414).....	3
Science Elective ³	3

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SENIOR YEAR	
CEEN 3317 Engineering Economy (Junior standing in engineering)...	3
~CEEN 4279 Design in Civil Engineering I (co- CEEN 3342/3143, CEEN 4316, CEEN 4362)	2
~CEEN 4316 Structural Steel Design (CEEN 3303)	3
~CEEN 4362 Hydrology (CEEN 3392 and co- STAT 4303).....	3
POLS 2302 Government & Politics of Texas	3
CEEN 4350 Professional Preparation (co- CEEN 4279 or CEEN 4289)	3

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~ **Courses offered once a year** Total Hours Required 130
Prerequisite and co-requisite courses are listed in parentheses.

NOTES:

¹ Computer Elective: MEEN 1320, CSEN 2304, or CEEN 3315. (Note: CEEN 3315 can be applied to degree only once.)

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

³ Approved science electives: BIOL 1306 or GEOL 1303.

⁴ Special Elective: AEEN 3346 or EEEEN 3331.

⁵ 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.

⁶ Engineering electives (prerequisites vary):

AEEN 4310 or CEEN 3315, 3389, 4314, 4326, 4336, 4340, 4364, 4367, 4368, or 4369.

^ 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, EEEEN, 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).

**CIVIL ENGINEERING
DEGREE PLAN TRACKING SHEET**

Catalog 2022-2023

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

FALL SEMESTER

FRESHMAN YEAR

SPRING SEMESTER

AEEN 1310	_____
ENGL 1301	_____
MATH 2413 (MATH 1348).....	_____
PHYS 2325 (co- MATH 2413).....	_____
PHYS 2125 (co- PHYS 2325).....	_____
GEEN 1201	_____

ENGL 1302 (ENGL 1301).....	_____
HIST 1301	_____
MATH 2414 (MATH 2413).....	_____
PHYS 2326 (PHYS 2325/2125; co- MATH 2414)	_____
PHYS 2126 (co- PHYS 2326).....	_____
^Creative arts	_____

SOPHOMORE YEAR

~CEEN 2113 (co- CEEN 2212)	_____
~CEEN 2212 (AEEN 1310; co- MATH 2413).....	_____
CEEN 2301 (PHYS 2325/2125; co- MATH 2414).....	_____
CHEM 1311 (MATH 1314 & H.S. Chemistry or CHEM 1481)...	_____
CHEM 1111 (co- CHEM 1311)	_____
HIST 1302	_____
POLS 2301.....	_____

CEEN 3311 (MATH 2414 & C or higher in CEEN 2301)	_____
MATH 3320 (MATH 2414).....	_____
MEEN 2302 (C or higher in CEEN 2301).....	_____
Computer Elective ¹	_____
^Communications ²	_____
^Language/Philosophy/Culture.....	_____

JUNIOR YEAR

~CEEN 3143 (co- CEEN 3342)	_____
CEEN 3303 (CEEN 3311)	_____
~CEEN 3342 (CEEN 3311)	_____
~CEEN 3392 (C or higher in CEEN 2301).....	_____
STAT 4303 (MATH 2414).....	_____
Science Elective ³	_____

~CEEN 3145 (co- CEEN 3244)	_____
~CEEN 3167 (CEEN 3392).....	_____
~CEEN 3244 (CEEN 3311).....	_____
~CEEN 3304 (CEEN 3303 & C or higher in CEEN 3311)	_____
~CEEN 3365 (CHEM 1311/1111; CEEN 3392).....	_____
Mathematics or Science Elective ⁵	_____
Special Elective ⁴	_____

SENIOR YEAR

CEEN 3317 (Junior standing in engineering)	_____
~CEEN 4279 (co-CEEN 3342/3143, CEEN 4316, CEEN 4362).....	_____
~CEEN 4316 (CEEN 3303).....	_____
~CEEN 4362 (CEEN 3392 & co- STAT 4303).....	_____
POLS 2302	_____
CEEN 4350 (CEEN 4279 or CEEN 4289).....	_____

~CEEN 4289 (CEEN 4279)	_____
~CEEN 4359 (CEEN 2212/2113 & senior standing in engr.)	_____
Engineering Elective ⁶	_____
Engineering Elective ⁶	_____
^Social/behavioral.....	_____

~ Courses offered once a year

Prerequisite and co-requisite courses are listed in parentheses.

Total Hours Required 130

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

³ Approved science electives: BIOL 1306, GEOL 1303, GEOL 3305.

⁴ Special Elective: AEEN 3346 or EEEN 3331.

⁵ 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.

⁶ Engineering electives (prerequisites vary):

AEEN 4310 or CEEN 3315, 3389, 4314, 4326, 4336, 4340, 4364, 4367, 4368, or 4369.

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Students with ACT scores in MATH below 22 must complete the following before enrolling in Calculus I: MATH 1314 + MATH 1316 + MATH 1348

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 and CEEN 4316

2) MATH 2413 & PHYS 2325/2125 → CEEN 2301 → CEEN 3392 & STAT 4303 → CEEN 3365 and CEEN 4362

Grades of "C" or higher are required in CEEN 2301 and CEEN 3311.

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

Candidates for the B.S. CEEN must also maintain a grade point average of 2.25 or higher in engineering and math/science course work.