

**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 &<br>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                      |    |
|                                                                                        | ---- |                                                                                            | ----                   |    |
|                                                                                        | 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 &<br>C or higher in CEEN 2301).....             | 3                      |    |
| ~CEEN 2212 Surveying (AEEN 1310; c.o.r. MATH 2413).....                                | 2    | Science Elective <sup>1</sup> .....                                                        | 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 |
|                                                                                        | ---- |                                                                                            |                        |    |
|                                                                                        | 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                      |    |
| CEEN 3315 Computer Methods in Civil Engineering<br>(c.o.r. AEEN or CEEN 3303) .....    | 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,<br>CEEN 3143, & CEEN 4362) ..... | 2    | ~CEEN 4289 Senior Design Project II (CEEN 4279 and either<br>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                      |    |
|                                                                                        | ---- |                                                                                            | ----                   |    |
|                                                                                        | 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.