

# REQUIREMENTS FOR THE DEGREE OF

## BACHELOR OF SCIENCE IN ARCHITECTURAL 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 Composition ..... 3                                         | CEEN 2301 Statics (PHYS 2325/2125; c.o.r. MATH 2414) ..... 3                                          |                 |
| MATH 2413 Calculus I (MATH 1348)..... 4                                            | CHEM 1311 General Inorganic Chemistry I (MATH 1314<br>& H.S. chemistry or CHEM 1481) ..... 3          |                 |
| PHYS 2325 University Physics I (c.o.r. MATH 2413) ..... 3                          | CHEM 1111 Gen. Inorg. Chemistry Lab I (c.o.r. CHEM 1311) ..... 1                                      |                 |
| PHYS 2125 University Physics Lab I (c.o.r. PHYS 2325) ..... 1                      | ENGL 1302 Rhetoric and Composition (ENGL 1301) ..... 3                                                |                 |
| GEEN 1201 Engineering as a Career ..... 2                                          | MATH 2414 Calculus II (MATH 2413) ..... 4                                                             |                 |
|                                                                                    | ----                                                                                                  | ----            |
|                                                                                    | 16                                                                                                    | 17              |
| FALL SEMESTER                                                                      | SOPHOMORE YEAR                                                                                        | SPRING SEMESTER |
| ~AEEN 2325 Architectural Develop Intro<br>(AEEN 1310 or ITEN 1311) ..... 3         | AEEN 3303 Structural Analysis (CEEN 3311) ..... 3                                                     |                 |
| AEEN 3346 Thermal Analysis (MATH 2414 & PHYS 2325/2125)..... 3                     | ~AEEN 3216 Architectural Design (AEEN 2325, co-AEEN 3116) ..... 2                                     |                 |
| CEEN 3311 Strength of Materials (MATH 2414 &<br>C or higher in CEEN 2301)..... 3   | ~AEEN 3116 Architectural Design Lab<br>(AEEN 2325, co-AEEN 3216) ..... 1                              |                 |
| HIST 1301 American History ..... 3                                                 | HIST 1302 American History..... 3                                                                     |                 |
| MATH 3415 Calculus III (MATH 2414) ..... 4                                         | MATH 3320 Differential Equations (MATH 2414) ..... 3                                                  |                 |
|                                                                                    | PHYS 2326 Univ. Physics II (PHYS 2325/2125; c.o.r. MATH 2414) ..... 3                                 |                 |
|                                                                                    | PHYS 2126 University Physics Lab II (c.o.r. PHYS 2326) ..... 1                                        |                 |
|                                                                                    | ----                                                                                                  | ----            |
|                                                                                    | 16                                                                                                    | 16              |
| FALL SEMESTER                                                                      | JUNIOR YEAR                                                                                           | SPRING SEMESTER |
| ~AEEN 3332 Building Electrical Systems I (PHYS 2326/2126) ..... 3                  | ~AEEN 3130 Instrumentation Laboratory (AEEN 3335) ..... 1                                             |                 |
| ~AEEN 3335 Building Environmental Systems<br>(AEEN 3346; c.o.r. CEEN 3390) ..... 3 | ~AEEN 4320 Building Services Engineering (CEEN 3390,<br>AEEN 3335, & C or higher in AEEN 3346)..... 3 |                 |
| ~CEEN 3390 Fluid Mechanics (C or higher in CEEN 2301) ..... 3                      | CEEN 3317 Engineering Economics (Jr standing in engineering)..... 3                                   |                 |
| POLS 2301 Government & Politics of U.S. .... 3                                     | POLS 2302 Government & Politics of Texas ..... 3                                                      |                 |
| ^Communications <sup>1</sup> ..... 3                                               | Special Elective <sup>2</sup> ..... 3                                                                 |                 |
|                                                                                    | Structural Design Elective <sup>3</sup> (AEEN 3303)..... 3                                            |                 |
|                                                                                    | ----                                                                                                  | ----            |
|                                                                                    | 15                                                                                                    | 16              |
| FALL SEMESTER                                                                      | SENIOR YEAR                                                                                           | SPRING SEMESTER |
| ~AEEN 3334 Building Electrical Systems II (AEEN 3332) ..... 3                      | ~AEEN 4289 Senior Design Project II (AEEN 4279,<br>AEEN 4320, & either AEEN 3304 or AEEN 4316)..... 2 |                 |
| ~AEEN 4279 Senior Design Project I (AEEN 3216/3116) ..... 2                        | ~CEEN 3344 Construction Materials (CEEN 3311)..... 3                                                  |                 |
| ~AEEN 4326 Construction Engineering (c.o.r. CEEN 3317)..... 3                      | ~CEEN 3145 Construction Materials Lab (c.o.r. CEEN 3344) ..... 1                                      |                 |
| STAT 4303 Statistical Methods (MATH 2414) ..... 3                                  | Engineering Elective <sup>4</sup> ..... 3                                                             |                 |
| Engineering Elective <sup>4</sup> ..... 3                                          | ^Social/behavioral ..... 3                                                                            |                 |
|                                                                                    | ^Lang/Phil/Culture ..... 3                                                                            |                 |
|                                                                                    | ----                                                                                                  | ----            |
|                                                                                    | 14                                                                                                    | 15              |

### ~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.

### NOTES:

<sup>1</sup> Strongly recommended: COMS 2374 or ENGL 2374. (Both have ENGL 1302 as prerequisite.)

<sup>2</sup> Special Elective (prerequisites vary): ITEN 2330, MEEN 2302, or MEEN 3348.

<sup>3</sup> Structural Design Elective: AEEN 3304 or AEEN 4316. Course selected for Structural Design Elective cannot also be used as an Engineering Elective.

<sup>4</sup> Engineering Electives (prerequisites vary):

AEEN 3304, AEEN 3325, AEEN 3350, AEEN 3310, AEEN 3318, AEEN 4316, AEEN 4333, AEEN 4336, AEEN 4340, AEEN 4346  
CEEN 3315, CEEN 3342, CEEN 3389, CEEN 3393, CEEN 4314, CEEN 4336, CEEN 4368

^ 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 Architectural 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 Catalog.**

**B.S. + 1 Course Certificates:** Building Systems Engineering or Structural Engineering. 128 hours total.

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