REQUIREMENTS FOR THE DEGREE OF
BACHELOR OF SCIENCE IN CIVIL ENGINEERING
Accredited by the Engineering Accreditation Commission of ABET
CURRICULUM

FRESHMAN YEAR

AEEN 1310 Computer Based Graphics and Design ...3
ENGL 1301 Rhetoric and Composition ...3
MATH 2413 Calculus I (MATH 1348) ...4
PHYS 2325 University Physics I (co- MATH 2413) ...3
PHYS 2125 University Physics Lab I (co- PHYS 2325) ...1
ENGL 1302 Rhetoric and Composition (ENGL 1301) ...3
HIST 1301 American History ...3
MATH 2414 Calculus II (MATH 2413) ...4
PHYS 2326 University Phys. II (PHYS 2325 & 2125; co-MATH 2414) ...3
PHYS 2126 University Physics Lab II (co- PHYS 2326) ...1
UNIV 1102 ...1

# Creative arts ...3

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
CEEN 3311 Strength of Materials (CEEN 2301 & MATH 2414) ...3
MATH 3320 Differential Equations (MATH 2414) ...3
MEEN 2302 Dynamics (CEEN 2301 and MATH 2414) ...3
Computer Elective## ...3
^Communication↑↑ ...3
^Language/Philosophy/Culture ...3

JUNIOR YEAR

~CEEN 3143 Geotechnical Engineering Lab (co- CEEN 3342) ...1
CEEN 3309 Structural Analysis [CEEN 3311 or
(co-CEEN 3311, B or higher in CEEN 2301, & consent of CE 3303 instructor)] ...3
~CEEN 3342 Geotechnical Engineering (CEEN 3311) ...3
~CEEN 3392 Hydraulics & Fluid Mechanics (CEEN 2301) ...3
STAT 4303 Statistical Methods (MATH 2414) ...3
Science Elective† ...3
CEEN 3314 Construction Materials (CEEN 3311) ...1
~CEEN 3145 Construction Materials Lab (co- CEEN 3144) ...1
~CEEN 3167 Hydraulics & Environ. Engr. Lab (co- CEEN 3365) ...1
~CEEN 3304 Reinforced Concrete Design (CEEN 3303) ...3
~CEEN 3365 Environmental Engineering (CEEN 3392 and
CHEM 1311 & 1111; co- CEEN 3167) ...3
Math or Science Elective** ...3
Special Elective# ...3

SENIOR YEAR

CEEN 3317 Engineering Economy (Junior standing = 60 credit hr) ...3
~CEEN 4279 Design in Civil Engineering I (co- CEEN 4316 and
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
Engineering Elective* ...3
CEEN 4289 Design in Civil Eng. II (CEEN 3342 & CEEN 4279) ...2
~CEEN 4359 Transportation Eng. (Senior standing = 90 credit hr) ...3
Engineering Elective* ...3
Engineering Elective* ...3
^Social/behavioral ...3

Note: Courses listed in parenthesis are prerequisites for the class listed on that line. Corequisite courses are listed in parenthesis, preceded by the prefix co-.

~Courses offered once a year

† Approved science electives: GEOL 1303, GEOL 3305, BIOL 1306.
↑↑ Strongly recommended: COMS 2374 or ENGL 2374 (ENGL 1302).
# Special Elective: AEEN 3346 or EEEN 3331.
## Computer Elective: CSE 2303 or MEEN 1320.
* Engineering electives: CEEN 3389, 4314, 4315, 4317, 4326, 4336, 4364, 4367, 4368, 4369, or any other approved upper level engineering elective.
** Additional mathematics and science electives recommended:
CHEM 1312 or any approved upper-level chemistry, physics or biology course.
MATH 3415, MATH 4341, MATH 4372, MATH 4374, or any other approved upper-level mathematics course.

^For courses listed under Core Curriculum “Components” see “General Requirements for Graduation with a Baccalaureate Degree” in an earlier section of this Catalog.

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, p. ii).

Total Hours Required: 129

Revised 12/4/13