Bachelor of Science in Civil Engineering Curriculum

Semester 1 – Fall (18 hours)
- CAE 100 (2) Engineering Drawing
- CAE 105 (3) Geodetic Science
- MATH 151 (5) Calculus I
- CHEM 124 (4) Chemistry I
- CAE 110 (1) Intro to Prof I
- 200 level HUM (3)

Semester 2 – Spring (17 hours)
- CAE 101 (2) AutoCAD
- MATH 152 (5) Calculus II
- PHYS 123 (4) Physics I
- CS 104 (2) Computer Programming
- CAE 111 (1) Intro to Prof II
- Human Sciences Course (3)

Semester 3 – Fall (17 hours)
- PHYS 221 (4) Physics II
- CAE 286 (3) Structural Mechanics
- MATH 251 (4) Calculus III
- ENVE 201 (3) Earth Environment Science*
- Human Sciences Course (3)

*Or: PHYS 360, BIOL 105, or CAE 221

Semester 4 – Spring (16 hours)
- MATH 252 (4) Differential Equations
- MMAE 305 (3) Dynamics
- CAE 287 (3) Mechanics of Materials
- CAE 312 (3) Engineering Systems

Semester 5 – Fall (15 hours)
- CAE 302 (3) Fluids and Hydraulics
- CAE 304 (3) Structural Analysis I
- CAE 315 (3) Construction Materials
- CAE 303 (3) Structural Design I
- IPRO 397/497 (3)

Semester 6 – Spring (15 hours)
- CAE 4xx (3) Technical Elective I
- CAE 323 (3) Geotechnical Engineering
- CAE 307 (3) Structural Design II
- Human Sciences Course (3)

Semester 7 – Fall (18 hours)
- CAE 470 (3) Construction Estimating
- CAE 457 (3) Geotechnical Foundation
- CAE 4xx (3) Technical Elective 2
- CAE 431 (3) Steel Design
- CAE 419 (3) Transportation Engineering
- Human Sciences Course (3)

Semester 8 – Spring (15 hours)
- CAE 495 (3) Senior Capstone
- CAE 432 (3) Concrete Design
- CAE 4xx (3) Technical Elective 3
- CAE 4xx (3) Technical Elective 4
- CAE 496 (0) FE Exam Prep
- Human Sciences Course (3)

Total credit hours required: 131 (ABET accredited)

**Legend:**
- General education
- Math and science
- CAEE
- IPRO
- Pre-requisite
- Offered in the semester shown
- Offered Fall/Spring
- Co-requisite/ can be taken at the same time

**Human Sciences requirements:**
- 6 hrs of humanities (AAH, COM, HIST, HUM, LIT or PHIL) @ 300/400 level
- 9 hrs of social/behavioral sciences (ECON, PS, PSYC, SOC, SSCI):
- 6 hrs @ 300/400 level & 6 hrs from single field
- SSCI and PS are the same field; SSCI and SOC are the same field
- 3 hrs of any level either humanities or social/behavioral sciences

**Technical electives must be CAE, ENVE, or EG 400- or 500-level**
- Recommended maximum of 1 EG elective

**Human Sciences requirements:**

Last updated: Spring 2021