Bachelor of Science in Civil Engineering Curriculum

Semester 1 - Fall
- 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
- 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
- 300 or 400 level HUM/SS elective (3)

Semester 3 - Fall
- PHYS 221 (4) Physics II
- CAE 286 (3) Structural Mechanics
- MATH 251 (4) Calculus III
- CAE 221 (3) Geology
- 300 or 400 level HUM/SS elective (3)

Semester 4 - Spring
- MATH 252 (4) Differential Equations
- MMAE 305 (3) Dynamics
- CAE 287 (3) Mechanics of Materials
- CAE 312 (3) Engineering Systems
- 300 or 400 level HUM/SS elective (3)

Semester 5 - Fall
- 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
- CAE 4xx (3) Technical Elective I
- CAE 323 (3) Geotechnical Engineering
- CAE 307 (3) Structural Design II
- 300 or 400 level HUM/SS elective (3)
- IPRO 397/497 (3)

Semester 7 - Fall
- 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
- 300 or 400 level HUM/SS elective (3)

Semester 8 - Spring
- CAE 495 (3) Senior Capstone
- CAE 432 (3) Concrete Design
- CAE 4xx (3) Technical Elective 3
- CAE 4xx (3) Technical Elective 4
- FE Exam Register in February
- 300 or 400 level HUM/SS elective (3)

Legend
- General education
- Math and science
- CAEE (or MMAE)
- IPRO

Other Notes
- Program is ABET accredited
- Total credit hours required: 131
- MMAE 200 can be substituted for CAE 286
- MMAE 202 can be substituted for CAE 287
- All technical electives must be CAE, EG, or ENVE 400- or 500-level
- HUM requirements (9 hrs): 3 hrs HUM 200 & 6 hrs HUM 300/400
- SS requirements (9 hrs): 6 hrs 300/400 level & 6 hrs from single field
- Additional HUM/SS requirement (3 hrs): any level HUM or SS course