Bachelor of Science in Architectural 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
- AAH 119 or AAH 120 (3) Arch. History

**Semester 3 – Fall (17 hours)**
- PHYS 221 (4) Physics II
- CAE 286 (3) Structural Mechanics
- MATH 251 (4) Calculus III
- CAE 208 (3) Thermal Fluids Eng. I
- Human Sciences Course (3)

**Semester 4 – Spring (16 hours)**
- CAE 312 (3) Engineering Systems
- CAE 287 (3) Mechanics of Materials
- MATH 252 (4) Differential Equations
- CAE 209 (3) Thermal Fluids Eng. II
- Human Sciences Course (3)

**Semester 5 – Fall (18 hours)**
- CAE 383 (3) Electrical Circuits
- CAE 315 (3) Construction Materials
- CAE 303 (3) Structural Design I
- CAE 304 (3) Structural Analysis I
- CAE 331 (3) Building Science
- IPRO 397/497 (3)

**Semester 6 – Spring (15 hours)**
- CAE 307 (3) Structural Design II
- CAE 323 (3) Geotechnical Engineering
- CAE 464 (3) HVAC Design
- Human Sciences Course (3)
- IPRO 397/497 (3)

**Semester 7 – Fall (15 hours)**
- CAE 468 (3) Architectural Design
- CAE 470 (3) Construction Estimating
- CAE 461 (3) Plumbing and Fire Protect.
- CAE 4xx (3) Technical Elective I
- Human Sciences Course (3)

**Semester 8 – Spring (15 hours)**
- CAE 495 (3) Senior Capstone
- CAE 496 (0) FE Exam Prep Register for FE
- CAE 471 (3) Construction Planning
- CAE 4xx (3) Technical Elective 2
- CAE 4xx (3) Technical Elective 3
- Human Sciences Course (3)

**Total credit hours required: 131 (ABET accredited)**

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

**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

**Co-requisite/co-requisite**

**Offered in the semester shown**

**Offered Fall/Spring**

**Pre-requisite**

**MMAE 200 can sub for CAE 286; MMAE 202 can sub for CAE 287**

**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

**Recommended maximum of 1 EG elective**