Civil Engineering
Catalog Year 2018-2019
128 Credit Hours

This flow chart is for planning purposes only. Be sure to check current prerequisites as well as course availability, both of which are subject to change as the curriculum is continuously improved.

**Pre College**
- MAT 1033 Intermediate Algebra (3)
- MAC 2311 Calculus I (4)
- MAC 1147 Precalculus (4)
- ECS 1006L Introduction to the Engineering Profession (1) [Fa, Sp]
- ENC 1101 Composition I (3)
- ENC 1102 Composition II (3)
- CHM 1045C Gen Chem w/lab (1) (4)
- Social Science
  - (Recommend ECO 2013 or ECO 2023)

**FALL First year (15)**
- MAC 1105 College Algebra (3)
- ECS 1006L Introduction to the Engineering Profession (1) [Fa, Sp]
- ENC 1101 Composition I (3)
- ENC 1102 Composition II (3)
- CHM 1045C Gen Chem w/lab (1) (4)

**SPRING First year (15)**
- MAC 2312 Calculus II (4)
- MAC 2313 Calculus III (4)
- PHY 2049C General Physics II (4)
- CHM 1045C Gen Chemistry w/l ab I (1) (4)
- State Core Social Science (3) (AMH 2020 or POS 2041) recommended to satisfy Civic Literacy requirement

**SUMMER First year (10)**
- EGN 2111C Engineering Computer Graphics (3) [Fa, Su]
- EGN 1041C Computational Tools for Eng (2) [Fa, Sp]
- PHY 2049C General Physics II (4)
- CHM 1045C Gen Chem w/lab II (1) (4)
- Humanities (3)
- Humanities Core (3)

**FALL Second year (15 - 16)**
- EGN 3420C Engineering Mechanics (4) [Fa, Sp]
- MAC 2313 Calculus III (4)
- PHY 2049C General Physics II (4)
- CHM 1045C Gen Chemistry w/lab II (1) (4)
- Social Science
  - (Recommend ECO 2013 or ECO 2023)

**SPRING Second year (15)**
- MAP 2302 Differential Equations (3)
- ENV 3006C Fundamentals of Environ Engng (3)
  (Also requires CHM 1045C (Sp, Su))
- MAC 2313 Calculus III (4)
- PHY 2049C General Physics II (4)
- Humanities (3)
- Humanities Core (3)

**SUMMER**
- PHY 2049C General Physics II (4)
- CHM 1045C Gen Chem w/lab II (1) (4)

**FALL Third year (15)**
- EGN 3331C Mechanics of Materials (3)
  (Sp, Su)
- EGN 3641C Engineering Entrepreneurship (3) [Fa, Sp]
- MAC 2313 Calculus III (4)
- PHY 2049C General Physics II (4)
- Humanities (3)
- Humanities Core (3)

**SPRING Third year (14-15)**
- STA 2023 Statistical Methods (3) (same level as MAC 1105)
- MAP 2302 Differential Equations (3)
- MAC 2313 Calculus III (4)
- PHY 2049C General Physics II (4)
- Humanities (3)
- Humanities Core (3)

**FALL Fourth year (15)**
- EGN 3100C Structural Analysis (4) [Sp]
- EGN 4012C Geotechnical Engineering II (3) (Fa)
- CEE 3101C Civil Engineering Materials (3) [Fa]
- Humanities (3)
- Humanities Core (3)

**SPRING Fourth year (12)**
- CEE 4702C Reinforced Concrete Design (3) [Fa] or CEE 4605 Steel Design (does not require CEE 3101C) (3) [Su]
- CWR 3202C Water Resources Design (3) (Sp)
- CWR 4540C Water Resources Design (3) (Fa)
- Technical Electives #1 (3) **
- Technical Electives #2 (3) **
- CWR 3202C Water Resources Design (3) (Sp)
- CWR 4540C Water Resources Design (3) (Fa)
- Technical Electives #1 (3) **
- Technical Electives #2 (3) **
- Humanities Core (3)
- Humanities (3)

**Unrestricted Elective (2-3)**

**Special Notes:**
1. *Please be aware classes may only be offered once a year.*
2. *Fa = Fall, Sp = Spring, Su = Summer and no notation means the course may be offered all terms.*
3. *Unless otherwise stated, a minimum grade of C is required for all courses.*
4. *Students should be aware of prerequisites for chosen technical electives.*
5. *Students should be aware one of their social science or humanities include 1 course that is designated with an attribute for College Level Writing Skills (CLWS) and 2 courses that are designated with an attribute for Intercultural Knowledge (INK) competencies. Students should try to take the state core social science AMH 2020 or POS 2041 to satisfy the Civic Literacy requirement. Please be aware that 1 course may satisfy multiple attributes.*

Example: AMH 2010 = Humanities, College Level Writing, and Intercultural Knowledge (GENM, CLWS, INK)

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