Civil Engineering Catalog Year 2020-2021
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

FALL First year (15)
- MAT 1033 Intermediate Algebra (3)
- MAC 2311 Calculus I (4)
- MAC 1147 Precalculus (4)
  - Prereq for

FALL First year (16)
- MAC 2311 Calculus I (4)
- ECS 1006L Introduction to the Engineering Profession (1) [Fa, Su]
- ENC 1101 Composition I (3)
- ENC 1102 Composition II (3)
  - Prereq for
- MAC 1105 College Algebra (3)

FALL Second year (15 - 16)
- MAC 2312 Calculus II (4)
- MAC 2313 Calculus III (4)
- MAC 1045C Gen Chemistry w/Lab I (4)
  - Prereq for
- PHY 2048C General Physics I (4)
- PHY 2049C General Physics II (4)
- CHM 1045C Gen Chemistry w/Lab I (4)
- Prereq for
- Social Science (3)
  (Recommend ECO 2013 or ECO 2023)

SUMMER First Year (9)
- State Core Social Science (3) [AMH 2020 or POS 2041 recommended to satisfy Civic Literacy requirement]
- Humanities (3)
- Unrestricted Elective (3)

SPRING First Year (10)
- See Below

SPRING Second year (15)
- EGN 2111C Engineering Computer Graphics (3) [Fa, Su]
- MAP 2302 Differential Equations (3)
- Prereq for
- MAC 1045C Gen Chemistry w/Lab I (4)
  - Prereq for
- ECS 1006L Introduction to the Engineering Profession (1) [Fa, Su]

SPRING Third year (14-15)
- EGN 3420C Engineering Mechanics (4) [Fa, Sp]
- EGM 1041C Computational Tools for Eng (2) [Fa, Sp]
- PHY 2048C General Physics I (4)
- Prereq for
- EGN 2111C Engineering Computer Graphics (3) [Fa, Su]
- MAC 2313 Calculus III (4)
- ENC 1102 Composition II (3)
- Prereq for
- EGN 1041C Computational Tools for Eng (2) [Fa, Sp]

FALL Third year (15)
- ENV 3006C Fundamentals of Environ Engng (3) [Also requires CMI 1045C] [Sp, Su]
- EGN 3331C Mechanics of Materials (3) [Sp, Su]
- Prereq for
- MAC 2313 Calculus III (4)
- ENC 1102 Composition II (3)
- Prereq for
- EGN 3331C Mechanics of Materials (3) [Sp, Su]

SPRING Fourth year (12)
- CEE 3101C Civil Engineering Materials (3) [Fa]
- CEE 3611C Geotechnical Engineering I (3) [Sp]
- Prereq for
- EGN 3420C Engineering Mechanics (4) [Fa, Sp]
- Technical Elective #1 (3) [Sp] **
- CCE 4012C Geotechnical Engineering II (3) [Su or Fa]
- Prereq for
- ENV 4512C Sustainability in Engineering (3) [Sp]

FALL Fourth year (15)
- CES 4702C Reinforced Concrete Design (3) [Fa] or CES 4605 Steel Design (does not require CEE 3101C) (3) [Fa]
- CWR 3202C Water Resources Design (3) [Fa]
- Prereq for
- TTE 3002C Transportation Engineering (3) [Sp]
- Prereq for
- IDS 3920 University Colloquium (3)
- Prereq for
- CWR 4540C Geotechnical Engineering (3) [Fa]
- Prereq for
- CEG 4012C Geotechnical Engineering II (3) [Su or Fa]

Unrestricted Elective (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 of which technical electives are required.

Example: AML 2010 = Humanities, College Level Writing, and Intercultural Knowledge (GEIMH, CLWS, INKN)

**Possible Technical Electives Include:**
- CES 4605 Steel Design
- CES 4702C Reinforced Concrete Design
- EVK 4043C Environmental GIS
- GLY 3420C Tectonics and Marine Geology
- GLY 4706C Coastal & Watershed Geology
- CES 4106 Advanced Structural Analysis
- EML 3416 Science & Tech of Solar Energy
- ENV 3302C Water Treatment Engineering
- ENV 4101C Atmospheric Pollution
- ENV 4351C Solid Waste Management
- ENV 4509C Wastewater Engineering
- EES 3204C Environ Chem for Engineers
- EGN 3345C Thermodynamics
- EGN 4930 Special Topics

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