Civil Engineering

Prerequisite Flowchart

These requirements are effective for students admitted to the Civil Engineering major beginning Fall 2016.

**FRESHMAN YEAR**

**Fall Term 1**
- CEM 161 – 1
  - Cem Lab I

**Spring Term 2**
- CEM 141 -OR-
  - CEM 151 - 4
  - Gen Cem

- EGR 100 - 2
  - Intro Engr Design

- EGR 102 - 2
  - Intro Engr Model

- MTH 132 - 3
  - Calc I

- MTH 133 - 4
  - Calc II

- PHY 183 – 4
  - Physics I

- WRA 1XX – 4
  - Univ Writing

- ISS 2XX – 4
  - *Div- N, I or D

**Sophomore Year**

**Fall Term 3**
- CE 273 - 2
  - Civil & Environmental Eng Measurements

- CE 274 - 1
  - Graphics

- MTH 234 - 4
  - Multivar Calc

- PHY 184 – 4
  - Physics II

- ISS 2XX – 4
  - *Div- N, I or D

- IAH 201-210 – 4
  - *Div- N, I or D

- IAH 211 or > – 4
  - *Div- N, I or D

**Spring Term 4**
- CE 221 – 3
  - Statics

- ENE 280 - 3
  - Prin of Envr Engr and Sci

- MTH 235 – 3
  - Diff Equations

- MTH 234 & 273 & 274

- CE 274 - 1
  - Mech of Defrm Sol

- GLG 301 - 3
  - Geo of the Great Lakes Region
  - SS Only

**Junior Year**

**Fall Term 5**
- CE 305 - 3
  - Intro to Struct Analysis & Design
  - (P: ME 222 & CE 273 & CE 274)

- ME 222 - 3
  - Soil Mechanics
  - (P: ME 222 & CE 273 & CE 274)

- CE 312 – 4
  - Intro Fluid Mech
  - (P: MTH 234, CE 221, & BE 230 or CE 273 or 274 & WRA XXX)

- CE 337 - 4
  - Civil Engr Mats I
  - (P: ME 222 & CE 273 & CE 274)

- CE 321 – 4
  - Transprtn Engr
  - (P: MTH 234, CE 273 & 274, WRA XXX)

- CE 337-3
  - Sustainable Sys
  - (P: MTH 234 & EGR 102 & ENE 280)

- CE 371-3
  - Risk Analysis
  - For Civil & Env Engns
  - (P: MTH 234 & EGR 102)

- CE 461 – 3
  - Comp Meth in Civil Engr SS Only
  - (P: EGR 102 & CE 221 & MTH 235 & OR)

- ME 361 – 3
  - Dynamics
  - (P: CE 221 & MTH 235)

**Spring Term 6**
- CE 305 - 3
  - Technical Elective - 3

- CE 312 – 4
  - Technical Elective - 3

- CE 321 – 4
  - Technical Elective - 3

- CE 337 - 4
  - Technical Elective - 3

- CE 337-3
  - Technical Elective - 3

- CE 337-3
  - Technical Elective - 3

**Senior Year**

**Fall Term 7**
- Elective – 3/4
  - 3-4 crs of Gen Elective

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**Spring Term 8**
- CE 495 - 4
  - Senior Design

**Legend**
- Prerequisite
- Prerequisite or Concurrent
- Rounded box: Offered only in the semester listed (excluding summer)
- "Div-" Complete courses in at least 2 out of 3 diversity categories: "N", "I" or "D"

Last Revised: May 2016