Civil Engineering

Prerequisite Flowchart

These requirements are effective for students admitted to the Civil Engineering major beginning Fall 2021.

FRESHMAN YEAR

FALL Term 1
- CEM 161 - 1 Cem Lab I
- CEM 141 OR CEM 151 - 4 Gen Cem
- EGR 100 - 2 Intro Engr Design
- MTH 132 - 3 Calc I
- PHY 183 - 4 Physics I
- WRA 101 - 4 Univ Writing

SPRING Term 2
- CEM 273 - 2 CE/ENE Engr Measurements
- EGR 102 - 2 Intro Engr Model
- MTH 133 - 4 Calc II
- ISS 2XX - 4 "Div- N, I or D
- IAH 201-210 - 4 "Div- N, I or D

SOPHOMORE YEAR

FALL Term 3
- CEM 274 - 1 Graphics for CE/ENE Engrs (P: MTH 132 or Conc and EGR 100 or Conc)
- CE 275 - 1 GIS for CE/ENE Engrs (P: EGR 100 and EGR 102 or ENE 274 or Conc)
- ENE 280 - 3 Prin of Env Engr and Science
- MTH 234 - 4 Multivar Calc
- CE 221 - 3 Statics
- PHA 181 - 4 Physics I

SPRING Term 4
- CEM 275 - 1 Mech of Defm Sol
- EGR 102 - 2 Intro Engr Model
- MTH 235 - 3 Diff Equations
- GLG 201 - 4 The Dynamic Earth OR GLG 301 - 3 Geo of the Great Lakes Region SS Only (P: PHY 183 & CEM 141 or CEM 151)
- IAH 201-210 - 4 "Div- N, I or D
- IAH 211 or > - 4 "Div- N, I or D

JUNIOR YEAR

FALL Term 5
- Bioscience - 3/4 Choose 1 from approved list
- ME 222 - 3 Mech of Defm Sol
- CE 312 - 4 Soil Mechanics
- CE 337 - 4 Civil Engr Matls (P: ME 222 or Conc and CE 273 or Conc and CE 274 or Conc)
- CE 221 - 3 Statics

SPRING Term 6
- CE 305 - 3 Intro to Structural Analysis (P: ME 222 and CE 273 or Conc and CE 274 or Conc)
- ME 222 - 3 Mech of Defm Sol
- CE 312 - 4 Soil Mechanics
- CE 337 - 4 Civil Engr Matls (P: ME 222 or Conc and CE 273 or Conc and CE 274 or Conc)
- CE 221 - 3 Statics

SENIOR YEAR

FALL Term 7
- CE 305 - 3 Intro to Structural Analysis (P: ME 222 and CE 273 or Conc and CE 274 or Conc)
- ME 222 - 3 Mech of Defm Sol
- CE 312 - 4 Soil Mechanics
- CE 337 - 4 Civil Engr Matls (P: ME 222 or Conc and CE 273 or Conc and CE 274 or Conc)
- CE 221 - 3 Statics

SPRING Term 8
- CE 341 - 3 Transprtn Engr (P: MTH 234 or Conc & CE 273 or Conc & CE 274 or Conc & WRA 101 & CE 372 or Conc)
- CE 371 - 3 Sustainable CE/ENE Engr Sys
- CE 372 - 3 Risk Analysis in CE/ENE Engr (P: MTH 234 or Conc)
- CE 461 - 3 Comp Methods in Civil Engr SS Only (P: EGR 102 & CE 221 & MTH 235) OR ME 361 - 3 Dynamics (P: CE 221 & MTH 235)

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: 4/8/21