2022-2023 ISU Civil Engineering Flow Chart (General)—129 (or 130) CR

Semester 1
17 CR
- ENGR 101 Engineering Orientation F – R CR
- CE 120 Keystone Learning Community F.S. – 1 CR
- CE 160 Engineering Problems F.S. – 3 CR
- MATH 165 Calculus I F.S.SS. – 4 CR (C – or better required)
- CHEM 167 or CHEM 177 & 178 Chemistry Lab F.S.SS. – 4 CR
- ENGL 150 Critical Think. & Comm (C – or better required) F.S.SS. – 3 CR

Semester 2
14 CR
- GEOL 201 Geology for Engineers F – 3 CR
- MATH 265 Calculus III F.S.SS. – 4 CR
- MATH 166 Calculus II F.S.SS. – 3 CR
- PHYS 231x & 231Lx Introduction to Classical Mechanics F.S.SS. – 1 CR
- SP CM 212 Fundamentals of Public Speaking F.S.SS. – 3 CR

Semester 3
17 or 18 CR
- MATH 266 Elem. Differential Equations F.S. – 3 CR
- CE 274 Statics of Engineering F.S.SS. – 3 CR
- CHEM 178/178Lx General Chemistry II/Chem II Lab F.S.SS. – 4 CR
- PHYS 232 & 232Lx Introduction to Classical Physics II F.S.SS. – 4 CR
- ENGL 250 Writ., Oral, Vis. & Elect. (C – or better required) F.S.SS. – 3 CR

Semester 4
18 CR
- GEOL 101 Engineering Orientation F – R CR
- MATH 267 Calculus IV F.S.SS. – 4 CR
- MATH 268 Linear Algebra F.S.SS. – 3 CR
- ME 345 Fundamentals of Fluids F.S.SS. – 3 CR
- CE 111 Fundamentals of Surveying I F.S. – 3 CR
- CE 111 Fundamentals of Surveying I F.S. – 3 CR

Semester 5
17 CR
- CE 360 Geotechnical Engineering F.S. – 4 CR
- CE 332 Structural Analysis I F.S.SS. – 3 CR
- EM 324 Mechanics of Materials F.S.SS. – 3 CR
- EM 327 Mechanics of Materials Lab F.S. – 1 CR
- CE 382 Design of Concrete F.S. – 3 CR

Semester 6
17 CR
- Social Science & Humanities Elective 3 CR
- CE 403 Program Assessment F.S. – R CR
- CE 333 Structural Steel Design I F.S. – 3 CR
- CE 334 Reinforced Concrete Design I F.S.SS. – 3 CR
- CE 382 Design of Concrete F.S. – 3 CR

Semester 7
17 CR
- International Perspective Elective 3 CR
- CE 460 Foundation Engineering F.S. – 3 CR
- CE 382 Design of Concrete F.S. – 3 CR
- CE 333 Structural Steel Design I F.S. – 3 CR
- CE 334 Reinforced Concrete Design I F.S.SS. – 3 CR

Semester 8
12 CR
- Civil Engineering Design Elective 3 CR
- CE 485 Civil Engineering Design F.S. – 3 CR
- Engineering Topics Elective 3 CR
- Social Science & Humanities Elective 3 CR

Notes
1. Although this flowchart is provided for your guidance, the University Catalog contains the definitive list of requirements.
2. Prerequisites are shown only for required courses.
3. PHYS 232x/232Lx can be taken in place of CHEM 178/178L.
Choose elective from Civil Engineering approved list.
* Must choose 2 of the three courses.

* Critical Path
* Civil Core
* Basic Program
* Prerequisites
* Corequisites

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