2018-2019 ISU Civil Engineering Flow Chart (General)—129 (or 130) CR

Semester 1
16 CR
- ENGR 101 Engineering Orientation F.S. – R CR
- CE 160 Engineering Problems F.S. – 3 CR
- MATH 165 Calculus I F.S.S. – 4 CR (C-or better required)
- CHEM 177 General Chemistry I F.S.S. – 4 CR
- CHEM 177 Laboratory in Gen. Chemistry I F.S.S. – 1 CR
- ENGL 150 Critical Think. & Comm (C or better required) F.S.S. – 3 CR
- UB 160 Library Instruction F.S.S. – 1 CR

Semester 2
18 CR
- CE 105 Intro to Civil Engr. Profession F. S. – 1 CR
- CE 170 Graphics for Civil Engineering F. S. – 2 CR
- MATH 166 Calculus II F.S.S. – 4 CR (C-or better required)
- PHYS 221 Introduction to Classical Physics I F.S.S. – 5 CR
- CE 111 Fundamentals of Surveying I F. S. – 3 CR
- SP CM 212 Fundamentals of Public Speaking F.S.S. – 3 CR

Semester 3
17 or 18 CR
- GEOL 201 Geology for Students of BS F.S. – 3 CR
- MATH 265 Calculus III F.S.S. – 4 CR
- EM 274 Statics of Engineering F.S.S. – 3 CR
- CHEM 178/178L General Chemistry II Lab F.S.S. – 4 CR
- PHYS 222 Introduction to Classical Physics II F.S.S. – 5 CR
- ENGL 250 Writ., Oral, Vls. & Elect. (C or better required) F.S.S. – 3 CR

Semester 4
18 CR
- MATH 266 Elem. Differential Equations F.S.S. – 3 CR
- CE 306 Project Management F. S. – 3 CR
- CHEM 178/178L General Chemistry II/ Chem II Lab F.S.S. – 4 CR
- PHYS 222 Introduction to Classical Physics II F.S.S. – 5 CR
- Statistics Elective 3 CR

Semester 5
16 CR
- CE 360 Geotechnical Engineering F. S. – 3 CR
- EM 345 Dynamics F.S.S. – 3 CR
- CE 332 Structural Analysis I F.S. – 3 CR
- EM 327 Mechanics of Materials Lab F.S.S. – 1 CR
- Chemical Engineering Elective F. S. – 3 CR

Semester 6
18 CR
- Social Science & Humanities Elective 3 CR
- CE 333 Structural Steel Design I F.S. – 3 CR
- CE 382 Design of Concretes F. S. – 3 CR
- CE 372 Hydrology & Hydraulics F. S. – 3 CR
- Engineering Topics Elective 3 CR

Semester 7
14 CR
- International Perspective * Elective 3 CR
- CE 334 Reinforced Concrete Design I F. S. – 3 CR
- CE 460 Foundation Engineering F. S. – 3 CR
- CE 326 Environmental Engineering F. S. – 3 CR
- Engineering Topics Elective 2 CR

Semester 8
12 CR
- CE 403 Program Assessment F.S. – R 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. EH 222 can be taken in place of CHEM 178 and CHEM 178L.
* Choose elective from Civil Engineering approved list.
** Must choose 2 of the following courses.