## Civil Engineering, BSE

## Academic Plans <br> Sample Plan of Study

Sample plans represent one way to complete a program of study. Actual course selection and sequence will vary and should be discussed with an academic advisor. For additional sample plans, see MyUI.

## Civil Engineering, BSE

| Course | Title | Hours |
| :---: | :---: | :---: |
| First Year |  |  |
| Fall |  |  |
| RHET:1030 | Rhetoric ${ }^{\text {a }}$ | 4 |
| MATH:1550 | Engineering Mathematics I: Single Variable Calculus ${ }^{b, c}$ | 4 |
| CHEM:1110 | Principles of Chemistry $1^{\text {a, d }}$ | 4 |
| ENGR:1100 | Introduction to Engineering Problem Solving ${ }^{\text {e }}$ | 3 |
| ENGR:1000 | Engineering Success for First-Year Students ${ }^{\text {e }}$ | 1 |
| CSI:1600 | Success at lowa | 0 |
|  | Hours | 16 |
| Spring |  |  |
| GE: Approved Course Subjects ${ }^{\dagger}$ |  | 3 |
| MATH:1560 | Engineering Mathematics II: Multivariable Calculus | 4 |
| MATH:2550 | Engineering Mathematics III: Matrix Algebra ${ }^{\text {a }}$ | 2 |
| PHYS:1611 | Introductory Physics I ${ }^{\text {b }}$ | 4 |
| ENGR:1300 | Introduction to Engineering Computing | 3 |
|  | Hours | 16 |
| Second Year |  |  |
| Fall |  |  |
| MATH:2560 | Engineering Mathematics IV: Differential Equations ${ }^{\text {a }}$ | 3 |
| $\begin{aligned} & \text { PHYS:1612 } \\ & \text { or CHEM:1120 } \end{aligned}$ | Introductory Physics II ${ }^{\text {a }}$ or Principles of Chemistry II | 4 |
| ENGR:2110 | Statics ${ }^{\text {a }}$ | 2 |
| ENGR:2130 | Thermodynamics ${ }^{\text {a }}$ | 3 |
| CEE:1030 | Introduction to Earth Science ${ }^{\text {b }}$ | 3 |
| CEE:2015 | Civil Engineering Tools ${ }^{\text {e }}$ | 2 |
|  | Hours | 17 |
| Spring |  |  |
| GE: Diversity, Equity, and Inclusion ${ }^{\text {g }}$ |  | 3 |
| STAT:2020 | Probability and Statistics for the Engineering and Physical Sciences | 3 |
| ENGR:2710 | Dynamics ${ }^{\text {a }}$ | 3 |
| ENGR:2750 | Mechanics of Deformable Bodies ${ }^{\text {a }}$ | 3 |
| CEE:3763 | Principles of Transportation Engineering ${ }^{\text {h }}$ | 3 |


| CEE:2010 | Civil and Environmental <br> Engineering Professional Practice <br> and Ethics | 1 |
| :--- | :--- | :--- |
| CEE:3002 | Technical Communication in Civil <br> and Environmental Engineering h | 1 |

## Third Year

Fall

| CEE:3530 | Geomechanics ${ }^{\text {e }}$ | 4 |
| :---: | :---: | :---: |
| CEE:3533 | Principles of Structural Engineering | 4 |
| ENGR:2510 | Fluid Mechanics ${ }^{\text {b }}$ | 4 |
| Focus Area: required or elective course ${ }^{\text {i }}$ |  | 3 |
| CEE:3001 | Leadership Skills for Engineers ${ }^{\text {e }}$ | 1 |

## Spring

| GE: Engineering Be Creative ${ }^{\text {j }}$ |  | 3 |
| :---: | :---: | :---: |
| CEE:3155 | Principles of Environmental Engineering | 4 |
| CEE:3371 | Principles of Hydraulics and Hydrology | 3 |
| CEE:3586 | Civil Engineering Materials ${ }^{\text {h }}$ | 3 |
| Focus Area: required or elective course ${ }^{\text {i }}$ |  | 3 |
|  | Hours | 16 |

## Fourth Year

Fall
GE: Approved Course Subjects ${ }^{f} 3$
Major: design course ${ }_{k}^{k} 3$
Major: design course ${ }^{k} 3$
Focus Area: required or elective course ${ }^{i} 3$
Focus Area: elective course ${ }^{i} 3$

| CEE:3003 | Project Management Skills ${ }^{\text {e }}$ | 1 |
| :--- | :--- | ---: |
|  | Hours | $\mathbf{1 6}$ |

## Spring

GE: Approved Course Subjects ${ }^{f} 3$
CEE:4850 Project Design and Management in 3
Civil Engineering ${ }^{\text {b }}$
Focus Area: required or elective course ${ }^{i} 3$
Focus Area: elective course ${ }^{i} 3$
Focus Area: elective course ${ }^{i} 3$
Degree Application: apply on MyUI before deadline
(typically in February for spring, September for fall) ${ }^{\mid}$

| Hours | $\mathbf{1 5}$ |
| :--- | ---: |
| Total Hours | 129 |

a Typically this course is offered in fall, spring, and summer sessions. Check MyUI for course availability since offerings are subject to change.
b Typically this course is offered in fall and spring semesters. Check MyUI for course availability since offerings are subject to change.
c Enrollment in math courses requires completion of a placement exam.
d Enrollment in chemistry courses requires completion of a placement exam.
e Typically this course is offered in fall semesters only. Check MyUI for course availability since offerings are subject to change.
f See General Catalog for list of approved course subjects.
g Students select a course from one of two GE CLAS Core areas: Diversity and Inclusion or Values and Culture.
$h$ Typically this course is offered in spring semesters only. Check MyUl for course availability since offerings are subject to change.
i Students select one of several standard focus areas developed by the department or create an individual focus area tailored to their interests. Focus areas in civil engineering include at least 21 s.h. in content area courses and electives; carefully selected elective courses may contribute to earning a minor and/or certificate. See General Catalog or consult an advisor for more information.
j See General Catalog for list of approved courses. Students who intend to enroll in a Be Creative course with prerequisites must request a waiver by completing the Request Prerequisite Special Permission form on MyUI.
k Students are required to complete two design courses (6 s.h.). Some focus areas require specific design courses; refer to General Catalog or consult an advisor for more information.
I Please see Academic Calendar, Office of the Registrar website for current degree application deadlines. Students should apply for a degree for the session in which all requirements will be met. For any questions on appropriate timing, contact your academic advisor or Graduation Services.

