

# Environmental Engineering, BSE

## Academic Plans

### 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.

### Environmental Engineering, BSE

Course	Title	Hours
<b>First Year</b>		
<b>Fall</b>		
RHET:1030	Rhetoric <sup>a</sup>	4
MATH:1550	Engineering Mathematics I: Single Variable Calculus <sup>b, c</sup>	4
CHEM:1110	Principles of Chemistry I <sup>a, d</sup>	4
ENGR:1100	Introduction to Engineering Problem Solving <sup>e</sup>	3
ENGR:1000	Engineering Success for First-Year Students <sup>e</sup>	1
CSI:1600	Success at Iowa	0
<b>Hours</b>		<b>16</b>
<b>Spring</b>		
MATH:1560	Engineering Mathematics II: Multivariable Calculus <sup>b</sup>	4
MATH:2550	Engineering Mathematics III: Matrix Algebra <sup>a</sup>	2
CHEM:1120	Principles of Chemistry II <sup>a</sup>	4
PHYS:1611	Introductory Physics I <sup>b</sup>	4
ENGR:1300	Introduction to Engineering Computing <sup>b</sup>	3
CEE:1010	Introduction to Careers in Environmental Engineering <sup>f</sup>	0
<b>Hours</b>		<b>17</b>
<b>Second Year</b>		
<b>Fall</b>		
MATH:2560	Engineering Mathematics IV: Differential Equations <sup>a</sup>	3
CHEM:2210	Organic Chemistry I <sup>a</sup>	3
ENGR:2110	Statics <sup>a</sup>	2
ENGR:2130	Thermodynamics <sup>a</sup>	3
STAT:2020	Probability and Statistics for the Engineering and Physical Sciences <sup>a</sup>	3
CEE:1030	Introduction to Earth Science <sup>b</sup>	3
<b>Hours</b>		<b>17</b>
<b>Spring</b>		
GE: Approved Course Subjects <sup>g</sup>		3
BIOL:1411	Foundations of Biology <sup>a</sup>	4
ENGR:2710	Dynamics <sup>a</sup>	3
CEE:3155	Principles of Environmental Engineering <sup>f</sup>	4

CEE:3002	Technical Communication in Civil and Environmental Engineering <sup>f</sup>	1
CEE:2010	Civil and Environmental Engineering Professional Practice and Ethics <sup>f</sup>	1
<b>Hours</b>		<b>16</b>

### Third Year

#### Fall

GE: Diversity, Equity, and Inclusion <sup>h</sup>		3
ENGR:2510	Fluid Mechanics <sup>b</sup>	4
CEE:4150	Environmental Chemistry <sup>e</sup>	3
CEE:4158	Solid and Hazardous Wastes <sup>e</sup>	3
Focus Area: topic course <sup>i</sup>		3
CEE:3001	Leadership Skills for Engineers <sup>e</sup>	1
<b>Hours</b>		<b>17</b>

#### Spring

GE: Engineering Be Creative <sup>j</sup>		3
ENGR:2720	Materials Science <sup>a</sup>	3
CEE:3371	Principles of Hydraulics and Hydrology <sup>f</sup>	3
CEE:3430	Water Treatment <sup>f</sup>	4
CEE:4159	Air Pollution Control Technology <sup>f</sup>	3
<b>Hours</b>		<b>16</b>

### Fourth Year

#### Fall

GE: Approved Course Subjects <sup>g</sup>		3
CEE:4102	Groundwater <sup>e</sup>	3
CEE:4157	Environmental Engineering Design <sup>e</sup>	3
CEE:4374	Water Resource Design <sup>e</sup>	3
Focus Area: topic course <sup>i</sup>		3
CEE:3003	Project Management Skills <sup>e</sup>	1
<b>Hours</b>		<b>16</b>

#### Spring

GE: Approved Course Subjects <sup>g</sup>		3
CEE:4850	Project Design and Management in Civil Engineering <sup>b</sup>	3
Focus Area: topic or elective course <sup>i</sup>		3
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Focus Area: elective course <sup>i</sup>		3
Degree Application: apply on MyUI before deadline (typically in February for spring, September for fall)		
<b>Hours</b>		<b>15</b>
<b>Total Hours</b>		<b>130</b>

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 Typically this course is offered in spring semesters only. Check MyUI for course availability since offerings are subject to change.
- g See General Catalog for list of approved course subjects. Some focus areas may require specific courses that may be taken for General Education Component credit.
- h Students select a course from one of two GE CLAS Core areas: Diversity and Inclusion or Values and Culture.
- i Students select a standard focus area developed by the department or create an individual focus area tailored to their interests. Focus areas require 15 s.h. and consist of content area courses and additional electives; carefully selected elective courses may contribute to earning a minor and/or certificate. Some focus areas may require additional courses that may be taken for General Education Component credit. See the 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 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.