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.

Course Title Hours

First Year
Fall
RHET:1030 Rhetoric 4
CHEM:1110 Principles of Chemistry 4
MATH:1550 Engineering Mathematics I: Single Variable Calculus 4
ENGR:1100 Introduction to Engineering Problem Solving 3
ENGR:1000 Engineering Success for First-Year Students 1
CSI:1600 Success at Iowa 0

Hours 16

Spring
GE: Approved Course Subjects 3
MATH:1560 Engineering Mathematics II: Multivariable Calculus 4
MATH:2550 Engineering Mathematics III: Matrix Algebra 2
PHYS:1611 Introductory Physics I 4
ENGR:1300 Introduction to Engineering Computing 3

Hours 16

Second Year
Fall
GE: Diversity, Equity, and Inclusion 3
MATH:2560 Engineering Mathematics IV: Differential Equations 3
PHYS:1612 Introductory Physics II 4
ENGR:2110 Statics 2
ENGR:2120 Electrical Circuits 3
ENGR:2130 Thermodynamics 3
ME:2020 Mechanical Engineering Program Seminar 0

Hours 18

Spring
ENGR:2710 Dynamics 3
ENGR:2720 Materials Science 3
ENGR:2750 Mechanics of Deformable Bodies 3
ME:2200 Introduction to Mechanical Engineering Design 2

Hours 11

Third Year
Fall
MATH:3550 Engineering Mathematics V: Vector Calculus 3
STAT:2020 or ME:2300 Probability and Statistics for the Engineering and Physical Sciences or Manufacturing Processes 3
ENGR:2510 Fluid Mechanics 4
ME:3351 Engineering Instrumentation 2
ME:3600 Control of Mechanical Engineering Systems 3
ME:3091 Professional Seminar: Mechanical Engineering 0

Hours 17

Spring
GE: Engineering Be Creative 3
ME:3045 Heat Transfer 3
ME:3052 Mechanical Systems 4
Focus Area: required or elective course 3
Focus Area: elective course 3

Hours 16

Fourth Year
Fall
GE: Approved Course Subjects 4
ME:4048 Energy Systems Design 4
ME:4055 Mechanical Systems Design 3
Focus Area: elective course or ME:4080 Experimental Engineering 3
Focus Area: elective course or ME:4086 Mechanical Engineering Design Project 3

Hours 17

Spring
GE: Approved Course Subjects 3
ME:4080 Experimental Engineering 4
ME:4086 Mechanical Engineering Design Project 3
Focus Area: elective course 3
Focus Area: elective course 3

Hours 16

Degree Application: apply on MyUI before deadline (typically in February for spring, September for fall)

Total Hours 131

Notes:
a. Typically this course is offered in fall, spring, and summer sessions. Check MyUI for course availability since offerings are subject to change.
b. Enrollment in chemistry courses requires completion of a placement exam.
c. Typically this course is offered in fall and spring semesters. Check MyUI for course availability since offerings are subject to change.
d. Enrollment in math 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 MyUI for course availability since offerings are subject to change.
i ME:2300 typically is offered in fall and spring sessions; STAT:2020 typically is offered in fall, spring, and summer sessions. Check MyUI for course availability since offerings are subject to change.
j Students select one of the preapproved standard focus areas or design a tailored focus area. Focus areas require at least 21 s.h. of coursework and consist of required course and electives. See General Catalog or consult an advisor for more information.
k 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.
l 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.