

ENGINEERING DESIGN

Plan of Study

Below is a sample plan of study that illustrates one way to achieve the program requirements. Any given student's plan of study may differ based on a variety of factors (e.g., advanced credit, placement exams, adding a minor). Enrolled students will work with their academic advisor; utilize the degree audit/planner to create a specific plan of study.

Course	Title	Hours
Freshman		
Fall		
ENGD 100	Design & Communication Studio	8
MA 111	Calculus I	5
RHIT 100	Foundations for Rose-Hulman Success	1
PH 111	Physics I	4
PH 111L	Physics I Lab	0
Hours		18
Winter		
ENGD 110	Static Analysis, Testing, and Sociotechnical Thinking	6
MA 112	Calculus II	5
ENGD 112	DC Circuits	2
ENGD 113	Software Development Principles I	2
Hours		15
Spring		
ENGD 120	Integrating Electrical, Software, and Societal Systems	6
MA 113	Calculus III	5
ENGD 150	Independent Design Project	2
BE 132	Systems Accounting and Modeling II	3
Hours		16
Sophomore		
Fall		
ENGD 260	Product Design Studio	8
BE 211	Circuits, Sensors, and Measurements	3
MA 223	Engineering Statistics	4
Hours		15
Winter		
ENGD 240	User-Experience Design Studio	6
MA 221	Matrix Algebra & Differential Equations I	4
EM 204	Statics & Mechanics of Materials II	4
Hours		14
Spring		
ENGD 250	Human Computer Interfaces Studio	6
ENGD 270	Application of Engineering Ethics	2
MA 222	Matrix Algebra & Differential Equations II	4
Elective		4
Hours		16
Summer		
ENGD 321	Practicum 1	1
Hours		1
Junior		
Fall		
CHEM 111	General Chemistry I	3
CHEM 111L	General Chemistry I Lab	1
BIO with lab		4
Elective		4
HSSA Elective		4
Hours		16
Winter		
PH 112	Physics II	4

PH 112L	Physics II Lab	0
ENGD 271	Vertically Integrated Proj II	2
Elective		4
Elective		4
HSSA Elective		4
Hours		18
Spring		
ENGD 322	Practicum 2	1
Elective		4
Hours		5
Summer		
ENGD 323	Practicum 3	1
Hours		1
Senior		
Fall		
MDS 410	Multidisciplinary Capstone I	4
Elective		4
Elective		4
HSSA Elective		4
HUM H230	Engineering Design Social Capstone	2
Hours		18
Winter		
MDS 420	Multidisciplinary Capstone II	4
Elective		4
HSSA Elective		4
MA/SCI Math/Science Elective		4
Hours		16
Spring		
MDS 430	Multidisciplinary Capstone III	4
Elective		4
HSSA Elective		4
MA/SCI Math/Science Elective		4
Hours		16
Total Hours		185

Students who want to take a foreign language may postpone these courses and graduate on time with careful scheduling.