

Course Plan

2022-2023



**BOISE STATE
UNIVERSITY**

Bachelor of Science in Mechanical Engineering

FIRST YEAR

FIRST SEMESTER

CHEM 111	General Chemistry (FN)	3 cr
CHEM 111L	General Chemistry Lab (FN)	1 cr
ENGL 101	Writing and Rhetoric 1 (FW)	3 cr
MATH 170	Calculus I (FM)	4 cr
UF 100	Foundations of Intellectual Life	3 cr
TOTAL CREDITS		14 cr

SECOND SEMESTER

CS 117	C++ for Engineers (3 cr) <i>OR</i>	
CS 121†	Computer Science 1 (4 cr)	3-4 cr
ENGL 102	Writing and Rhetoric 2 (FW)	3 cr
MATH 175	Calculus II	4 cr
ME 187	Graphical Communication	2 cr
PHYS 211	Physics 1 w/Calculus (FN)	4 cr
PHYS 211L	Physics 1 w/Calculus Lab (FN)	1 cr
TOTAL CREDITS		17-18 cr

SECOND YEAR

FIRST SEMESTER

MATH 275	Multivariable and Vector Calculus	4 cr
ME 201	Engineering Mechanics 1	3 cr
ME 215	Engineering Communication Lab w/Inspire ME seminar	1 cr
ME 273	Introduction to Computation for Engineers	2 cr
MSE 101	Introduction to Materials Engineering	3 cr
FS	Foundations of Social Science	3 cr
TOTAL CREDITS		16 cr

SECOND SEMESTER

MATH 333	Differential Equations and Matrix Theory	4 cr
ME 203	Engineering Mechanics 2	3 cr
ME 287	Design 1 w/Lab	2 cr
UF 200	Foundations of Ethics and Diversity	3 cr
SCI/MTH	Science/Math Elective	4 cr
TOTAL CREDITS		16 cr

THIRD YEAR

FIRST SEMESTER

ENGR 240	Electrical and Electronic Circuits	3 cr
MATH 360	Engineering Statistics <i>OR</i>	
MATH 361†	Probability and Statistics	3 cr
ME 301	Solid Mechanics 1	3 cr
ME 301L	Solid Mechanics 1 Lab	1 cr
ME 321	Thermal/Fluids 1	3 cr
FH	Foundations of Humanities	3 cr
TOTAL CREDITS		16 cr

SECOND SEMESTER

ME 303	Solid Mechanics 2	3 cr
ME 313	Experimental Methods Lab 1	2 cr
ME 323	Thermal/Fluids 2	3 cr
ME 360	System Modeling and Control	3 cr
ME 387	Design 2 w/Lab	2 cr
ELEC	Program Elective A	3 cr
TOTAL CREDITS		16 cr

FOURTH YEAR

FIRST SEMESTER

ME 401	Engineering Systems and Applications	3 cr
ME 413	Experimental Methods Lab 2	2 cr
ME 487	Senior Design Project 1 (FF)	2 cr
ELEC	Program Elective B	3 cr
FS	Foundations of Social Science 2nd Field	3 cr
TOTAL CREDITS		13 cr

SECOND SEMESTER

ME 489	Senior Design Project 2	2 cr
ELEC	Program Elective C	3 cr
ELEC	Program Elective D	3 cr
FA	Foundations of Arts	3 cr
FC	Foundations of Oral Communication	3 cr
TOTAL CREDITS		14 cr