

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING COURSE PLAN BY SEMESTER

STARTING WITH MATH 170

Catalog Year

2013—2014

**TOTAL
CREDITS:
122-123**

For questions about program requirements, please contact your advisor. Boise State recommends that you meet with an advisor annually to ensure that problems are identified and resolved quickly.

**In this instance, either course meets the requirement.*

Rev. 3/13



FIRST YEAR					
Fall Semester			Spring Semester		
CHEM 111	College Chemistry (DLN)	3	ME 105	Mechanical Engineering Graphics	3
CHEM 111L	College Chemistry Lab (DLN)	1	ENGL 102	English Composition	3
ENGL 101	English Composition	3	MATH 175	Calculus II	4
ENGR 120	Introduction to Engineering	3	PHYS 211	Mechanics, Waves & Heat (DLN)	4
UF 100	Intellectual Foundations	3	PHYS 211L	Mechanics, Waves & Heat Lab (DLN)	1
MATH 170	Calculus 1 (DLM)	4			
TOTAL CREDITS		17	TOTAL CREDITS		15

SECOND YEAR					
Fall Semester			Spring Semester		
PHYS 212	Electricity, Magnetism & Optics	4	MATH 275	Multiple Variable & Vector Calculus	4
PHYS 212L	Electricity, Magnetism & Optics Lab	1	ENGR 220	Engineering Dynamics	3
MATH 333	Differential Equations and Matrix Theory	4	ENGR 245	Introduction to Materials Science & Engineering	3
ENGR 210	Engineering Statics	3	ENGR 245L	Introduction to Materials Science & Engineering Lab	1
UF 200	Civic and Ethical Foundations	3	ME 302 or ENGR 320	Thermodynamics I	3
			ME 271	Introduction to Computations for Engineers	3
TOTAL CREDITS		15	TOTAL CREDITS		17

THIRD YEAR					
Fall Semester			Spring Semester		
MATH 360 or MATH 361*	Engineering Statistics or Probability and Statistics*	3	ME 380	Kinematics & Machine Dynamics	4
ME, CE, or ENGR 330	Fluid Mechanics	3	ME 320	Heat Transfer	3
ME, CE, or ENGR 331	Fluid Mechanics Lab	1	ME 310	Experimental Methods Lab (CID)	2
ME, CE, or ENGR 350	Engineering Mechanics of Materials	3	ME 352	Machine Design I	3
ENGR 240	Introduction to Circuits	3	DLV	Visual and Performing Arts Elective	3
ENGL 202	Technical Communication (DLS)	3			
TOTAL CREDITS		16	TOTAL CREDITS		15

FOURTH YEAR					
Fall Semester			Spring Semester		
ME 481	Senior Design Project I (FF)	3	ME 483	Senior Design Project II	3
ME 424	Thermal & Fluids Systems Design	3	ME	ME Program Elective	3
ME 462	Machine Design II	3	Tech Elective	Upper-Division Technical Elective	3
ME	ME Program Elective	3	DLS	Social Science Second Field Elective	3
DLL	Literature and Humanities Elective	3			
TOTAL CREDITS		15	TOTAL CREDITS		12

Mechanical Engineering Flowchart

2013 - 2014 Catalog (rev. 6/13)

