Mechanical & Biomedical Engineering Department

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING COURSE PLAN BY SEMESTER

2017—2018

TOTAL CREDITS: 122-124

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.

Highlighted courses are core for upperdivision consideration.

	FI]	RSI	YEAR			
	Fall Semester		Spring Semester			
CHEM 111	College Chemistry (DLN)	3	CS 117†	Introduction to C++	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 or ENGR 130	Introduction to Engineering	3-4	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	17-18		TOTAL CREDITS	15	
	SEC	ON	D 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	MSE 245	Introduction to Materials Science & Engineering	3	
ENGR 210	Engineering Statics	3	MSE 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 Computation for Engineers	1	ME 105	Mechanical Engineering Graphics	3	
	TOTAL CREDITS	16	TOTAL CREDITS		17	

THIRD YEAR									
Fall Semester			Spring Semester						
MATH 360 <i>or</i> MATH 361 [*]	Engineering Statistics or Probability and Statistics*	3	ME 380†	Kinematics & Machine Dynamics	3				
ME 330	Fluid Mechanics	3	ME 320	Heat Transfer	3				
ME 331	Fluid Mechanics Lab	1	ME 310	Experimental Methods Lab (CID)	2				
ME 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	14				

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	3-4						
	TOTAL CREDITS	15-16		TOTAL CREDITS	12			

[†] This programming sequence is the only approved way to complete the structured programming requirement for the ME degree.

* In this instance, either course meets the requirement.

Mechanical Engineering Curriculum Flowchart

(rev. 3/17)

