

Boise State Bachelor of Science in Mechanical Engineering – 4 Year Plan

Year 1	17 credits	CHEM 111 (3) General Chemistry I *CHEM 111L	CHEM 111L (1) General Chemistry Lab I *CHEM 111	MATH 170 (4) Calculus I	ENGR 180 (3) Communication in Design Thinking	ENGL 101 (3) Introduction to College Writing	UF 100 (3) Foundations of Intellectual Life
	15 credits	PHYS 211 (4) Physics I with Calculus *MATH 170 *PHYS 211L	PHYS 211L (1) Physics I with Calculus Lab *PHYS 211	MATH 175 (4) Calculus II MATH 170	CS 117 (3) C++ for Engineers MATH 170	ENGL 102 (3) Intro to College Writing and Research	
Year 2	16 credits	PHYS 212 (4) Physics II with Calculus *MATH 175 *PHYS 212L PHYS 211	PHYS 212L (1) Physics II with Calculus Lab *PHYS 212	MATH 333 (4) Differential Equations with Matrix Theory MATH 175	ENGR 210 (3) Engineering Statics MATH 170 PHYS 211	ME 271 (1) Intro to Computations for Engineers CS 117 *PHYS 211	UF 200 (3) Foundations of Ethics and Diversity
	17 credits	ME 302 (3) Thermodynamics I CHEM 111 MATH 175 PHYS 211	ME 105 (3) Mechanical Engineering Graphics MATH 170	MATH 275 (4) Multivariable and Vector Calculus MATH 175	ENGR 220 (3) Engineering Dynamics ENGR 210 MATH 175	MSE 245 (3) Introduction to Materials Science CHEM 111 MATH 170	MSE 245L (1) Introduction to Materials Science Lab *ENGR 245
Year 3	16 credits	ME 330 (3) Fluid Mechanics ENGR 210 MATH 275 MATH 333	ME 331 (1) Fluid Mechanics Lab *ME 330	MATH 360/361 (3) Engineering Statistics MATH 175	ME 350 (3) Engineering Mechanics of Materials ENGR 210 MATH 175	ENGR 240 (3) Introduction to Circuits *MATH 333 ENGR 120 PHYS 211	ENGL 202 (3) Technical Communications
	14 credits	ME 320 (3) Heat Transfer MATH 275 MATH 333 ME 271 ME 302 ME 330	ME 380 (3) Kinematics and Machine Design ENGR 220 MATH 275 MATH 333 ME 271	ME 310 (2) Experimental Methods Lab ENGL 202 ENGR 240 MATH 360/361 ME 331	ME 352 (3) Machine Design I MSE 245/245L MATH 360/361 ME 105 ME 350	FA Elective (3) Foundations of Arts	
Year 4	15 credits	ME 424 (3) Thermal Fluids & Systems Design ME 320 ME 330	ME Elective (3) Program	ME 481 (3) Senior Design Project I *ME 424 *ME 462 ME 310	ME 462 (3) Machine Design II ME 352 ME 380	FH Elective (3) Foundations of Humanities	
	15 credits	ME Elective (3) Program	ME Elective (3) Upper Division Technical	ME 483 (3) Senior Design Project II ME 481	FS Elective (3) Foundations of Social Science Second Field	FC Elective (3) Foundations of Oral Communication	

Legend:

Credits

Pre-Requirement Courses
 Note: * Indicates a Co-Requisite course

Color Code:

- CORE XYZ** (Orange)
Engineering Fundamentals
- ME CORE Course** (Blue)
- ME XYZ** (Light Blue)
Engineering Practice
- ME Major Course** (Dark Blue)
Note: Must be admitted to ME Major to register for these courses
- ENGR XYZ** (White)
Engineering Preparation
- ME General Course** (Light Yellow)
- F XYZ** (Yellow)
University Common Core
- Foundational Studies Course** (Light Green)

Total Credits: 122

Note: