

Major: Mechanical Engineering, B.S.: 127 units
2018-2019 Academic Year

	Fall		Units	Spring		Units	Comments
	Courses	Requirements/Comments		Courses	Requirements/Comments		
Year 1	ME 1001L Engineering Graphics and Visualization Laboratory		1	ME 1101 Computer-Aided Computations		1	
	MAT 1140 Calculus I (B4)		4	ME 1101L Computer-Aided Computations Laboratory		1	
	CHM 1150 General Chemistry for Engineers		3	MAT 1150 Calculus II (B4)		4	
	GE Area C1: Visual and Performing Arts		3	PHY 1510 Introduction to Newtonian Mechanics (B1)		3	
	GE Area E: Lifelong Learning and Self-Development		3	PHY 1510L Newtonian Mechanics Laboratory (B3)		1	
	GE Area A1: Oral Communication		3	MFE 2010 Manufacturing Systems and Processes		2	
				MFE 2010L Manufacturing Systems and Processes Laboratory		1	
				GE Area A2: Written Communication		3	
		Total Units		17	Total Units		16

Year 2	Fall		Units	Spring		Units	Comments
	Courses	Requirements/Comments		Courses	Requirements/Comments		
	ME 2141 Vector Statics and Strength of Materials		3	ME 2150 Vector Dynamics		3	
	MAT 2140 Calculus III		4	ME 2191 Mechanics of Materials		3	
	PHY 1520 Introduction to Electromagnetism and Circuits		3	ME 2331 Introduction to Design		2	
	PHY 1520L Introductory Laboratory on Electromagnetism and Circuits		1	ME 2331L Introduction to Design Laboratory		1	
	GE Area B2: Life Sciences		2	MAT 2240 Elementary Linear Algebra and Differential Equations		3	
	GE Area D1: U.S. History American Ideals		3	EC 2201 Principles of Microeconomics (D3) or EC 2202 Principles of Macroeconomics (D3)		3	
			0	GE Area C2a: Philosophy and Civilization		3	
			0			0	
Semester Total Units		16	Semester Total Units		18		

	Fall		Units	Spring		Units	Comments	
	Courses	Requirements/Comments		Courses	Requirements/Comments			
Year 3	ME 3011 Thermodynamics		3	ME 3121 Intermediate Thermal-Fluids Engineering		3	<i>Graduation Writing Test must be taken before completion of 75 units.</i>	
	ME 3111 Fluid Mechanics		3	ME 3131L Thermal- Fluids Laboratory		1		
	ME 3150 Engineering Materials		3	ME 3250 Machine Design		2		
	ME 3190 Stress Analysis		3	ME 3250L Machine Design Laboratory		1		
	ME 3401 System Dynamics		3	ME 3451 Mechatronic Systems		2		
	ME 3501L Mechanics, Behavior and Selection of Materials Laboratory		1	ME 3451L Mechatronic Systems Laboratory		1		
			0	GE Area D2: U.S. Constitution and California Government		3		
			0	GE Area C2b: Literature and Language Other than English		3		
	<i>Take the Graduation Writing Test</i>							
	Semester Total Units		16	Semester Total Units		16		

	Fall		Units	Spring		Units	Comments
	Courses	Requirements/Comments		Courses	Requirements/Comments		
Year 4	ME 4060 Finite Element Analysis		2	ME 4271 Thermal Systems Design		3	
	ME 4060A Finite Element Analysis Activity		1	ME 4622 Undergraduate Seminar		1	
	ME 4150 Heat Transfer		3	Major Elective		3	
	ME 4391 Control of Mechanical Systems		2	Major Elective		3	
	ME 4391L Control of Mechanical Systems Laboratory		1	IME 4030 Fiscal Implications in Technical Decision Making (B5, D4)		3	
	EGR 4810 Project Design Principles and Applications (B5)		1	EGR 4830 Project Design Principles and Applications (B5)		1	
	EGR 4820 Project Design Principles and Applications (B5)		1			0	
	IME 4020 Ethical Concepts in Technology and Applied Science (B5, C3)		3			0	
	<i>File an application to graduate</i>						
	Semester Total Units		14	Semester Total Units		14	
Total Units					127		