

Applied Mechanical Engineering Curriculum

Four-year Academic Plan

Digital/Business Foundation



جامعة الملك فهد للبترول والمعادن
King Fahd University of Petroleum & Minerals

Freshman Year

Course	Title	LT	LB	Cr	Course	Title	LT	LB	Cr
CHEM 101	Principles of Chemical Science I	3	4	4	ENGL 102	Introduction to report writing	3	0	3
ENGL 101	Intro. Academic Discourse	3	0	3	IAS 111	Belief & Its Consequences	2	0	2
IAS 121	Language Foundation	2	0	2	ICS 104	Intro. to Programm. In Python & C	2	3	3
MATH 101	Calculus I	4	0	4	MATH 102	Calculus II	4	0	4
PE 101	Health and Physical Education I	0	2	1	PHYS 102	General Physics II	3	3	4
PHYS 101	General Physics I	3	3	4					
Total					Total				
		15	9	18			14	6	16

Sophomore Year

Course	Title	LT	LB	Cr	Course	Title	LT	LB	Cr
CE 202	Statics & Strength of Materials	3	0	3	EE 234	EE Principles and Applications	3	0	3
ENGL 214	Academic & Professional Writing	3	0	3	EE 235	EE Principles and Applications Lab	0	3	1
MATH 201	Calculus III	3	0	3	ISE 291	Intro. to Data Science	3	0	3
ME 203	Thermodynamics I	3	0	3	MATH 202	Elements of Differential Equations	3	0	3
ME 210	ME Drawing & Graphics	2	3	3	ME 201	Dynamics	3	0	3
ME 216	Materials Science and Eng.	3	0	3	ME 204	Thermodynamics II	3	0	3
ME 217	Mat. Sci. and Eng. Lab	0	3	1	ME 218	Intro. ME Design	1	3	2
Total					Total				
		17	6	19			16	6	18

Junior Year

Course	Title	LT	LB	Cr	Course	Title	LT	LB	Cr
COE 292	Intro. to Artificial Intelligence	3	0	3	BUS 200	Business & Entrepreneurship	3	0	3
IAS 212	Ethics and Governance	2	0	2	CGS 392	Career Essentials	0	2	1
STAT 319	Prob.& Stat. for Engineers	2	3	3	IAS xxx	Islamic/Arabic Elective	2	0	2
ME 301	Machine Design I	3	0	3	MATH 371	Intro. Numerical Methods	3	0	3
ME 311	Fluid Mechanics	3	0	3	ME 302	Machine Design II	3	0	3
ME 322	Manufacturing Processes	3	0	3	ME 303	Mechanical System Design Lab	0	3	1
ME 323	Manufacturing Lab	0	3	1	ME 315	Heat Transfer	3	0	3
					ME 316	Thermo-fluid Lab	0	3	1
Total					Total				
		16	6	18			14	8	17

Senior Year

Course	Title	LT	LB	Cr	Course	Title	LT	LB	Cr
ME 398	Internship	0	0	6	GS xxx	GS Elective	3	0	3
					ME 401	System Dynamics & Control	3	0	3
					ME 402	Measurements & Control Lab	0	3	1
					ME 415	Senior Design Project	0	9	3
					ME 4xx	ME Elective I	3	0	3
					ME 4xx	ME Elective II	3	0	3
Total					Total				
		0	0	6			12	12	16

Total Credit Hours 128