

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. to 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					14				
9					6				
18					16				

Sophomore Year

Course	Title	LT	LB	Cr	Course	Title	LT	LB	Cr
CE 202	Statics & Strength of Materials	3	0	3	ENGL 214	Academic & Professional Comn.	3	0	3
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				
14					16				
6					3				
16					17				

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
EE 234	EE Principles and Applications	3	3	3	CGS 392	Career Essentials	0	2	1
EE 235	EE Principles and Applications Lab	0	3	1	IAS 212	Ethics and Governance	2	0	2
ME 301	Machine Design I	3	0	3	STAT 319	Prob.& Stat. for Engineers	2	3	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	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				
15					13				
9					11				
17					17				

Summer Session

ME 399	Summer Training	0	0	0
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Senior Year

Course	Title	LT	LB	Cr	Course	Title	LT	LB	Cr
MATH 371	Intro. Numerical Methods	3	0	3	GS xxx	GS Elective	3	0	3
ME 401	System Dynamics & Control	3	0	3	IAS xxx	Islamic/Arabic Elective	2	0	2
ME 402	Measurements & Control Lab	0	3	1	ME 412	Senior Design Project II	0	6	2
ME 411	Senior Design Project I	1	0	1	ME 4xx	ME Elective III	3	0	3
ME 4xx	ME Elective I	3	0	3	XE xxx	Technical Elective	3	0	3
ME 4xx	ME Elective II	3	0	3					
Total					Total				
13					11				
3					6				
14					13				

Total Credit Hours **128**