

## B.S. in Mechanical Engineering- Internship Option

Four-year Academic Plan

Digital/Business Foundation



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

### Freshman Year

Course	Type	Title	LT	LB	Cr	Course	Type	Title	LT	LB	Cr
CHEM 101	MS	Principles of Chemical Science I	3	3	4	ENGL 102	GS	Intro. to Argument Writing	3	0	3
ENGL 101	GS	Intro. to Academic Discourse	3	0	3	IAS 111	GS	Belief & Its Consequences	2	0	2
IAS 121	GS	Language Foundation	2	0	2	ICS 104	DF	Intro. to Programm. in Python & C	2	3	3
MATH 101	MS	Calculus I	4	0	4	MATH 102	MS	Calculus II	4	0	4
PE 101	GS	Health and Physical Education I	0	2	1	PHYS 102	MS	General Physics II	3	3	4
PHYS 101	MS	General Physics I	3	3	4						
<b>Total</b>						<b>15 8 18</b>					
<b>Total</b>						<b>14 6 16</b>					

### Sophomore Year

Course	Type	Title	LT	LB	Cr	Course	Type	Title	LT	LB	Cr
CE 202	CR	Statics & Strength of Materials	3	0	3	EE 236	CR	Electronic Circuits	3	0	3
ENGL 214	GS	Academic & Professional Comm.	3	0	3	EE 237	CR	Electronic Circuits Lab	0	3	1
MATH 201	MS	Calculus III	3	0	3	ISE 291	DF	Intro. to Data Science	3	0	3
ME 203	CR	Thermodynamics I	3	0	3	MATH 208	MS	Diff. Eq. & Linear Algebra	3	0	3
ME 210	CR	ME Drawing & Graphics	2	3	3	ME 201	CR	Dynamics	3	0	3
MSE 201	CR	Introduction to Materials	3	0	3	ME 204	CR	Thermodynamics II	3	0	3
MSE 202	CR	Materials Lab	0	3	1	ME 218	CR	Intro. ME Design	1	3	2
<b>Total</b>						<b>17 6 19</b>					
<b>Total</b>						<b>16 6 18</b>					

### Junior Year

Course	Type	Title	LT	LB	Cr	Course	Type	Title	LT	LB	Cr
COE 292	DF	Intro. to Artificial Intelligence	3	0	3	BUS 200	DF	Business & Entrepreneurship	3	0	3
IAS 212	GS	Ethics and Governance	2	0	2	CGS 392	GS	Career Essentials	0	2	1
STAT 319	MS	Prob.& Stat. for Engineers	2	3	3	IAS xxx	GS	Islamic/Arabic Elective	2	0	2
ME 301	CR	Machine Design I	3	0	3	MATH 371	MS	Intro. Numerical Methods	2	2	3
ME 311	CR	Fluid Mechanics	3	0	3	ME 302	CR	Machine Design II	3	0	3
ME 322	CR	Manufacturing Processes	3	0	3	ME 303	CR	Mechanical System Design Lab	0	3	1
ME 323	CR	Manufacturing Lab	0	3	1	ME 315	CR	Heat Transfer	3	0	3
<b>Total</b>						<b>16 6 18</b>					
<b>Total</b>						<b>13 10 17</b>					

### Senior Year

Course	Type	Title	LT	LB	Cr	Course	Type	Title	LT	LB	Cr
ME 398	CR	Internship	0	0	6	GS xxx	GS	GS Elective	3	0	3
ME 411	CR	Senior Design Project I	0	1	0	ME 401	CR	System Dynamics & Control	3	0	3
<b>Total</b>						<b>0 1 6</b>					
<b>Total</b>						<b>12 9 16</b>					

**Total Credit Hours 128**

MS	Math and Science	32
GS	General Studies	22
CR	Core Subjects	56
CE	Core Electives	6
EN	Engineering Electives	0
TE	Technical Electives	0
FE	Free Electives	0
DF	Digital/Business Foundation	12
<b>Total</b>		<b>128</b>
<b>Total Core (CR+CE)</b>		<b>62</b>
<b>Total Engineering (Total Core+EN)</b>		<b>62</b>