

Applied Mechanical Engineering Curriculum

COURSE	TITLE	LT	LB	CR	COURSE	TITLE	LT	LB	CR
Preparatory Year									
ENGL 001	Prep. English I	15	5	8	ENGL 002	Prep. English II	15	5	8
MATH001	Prep. Math I	3	1	4	MATH 002	Prep. Math II	3	1	4
PYP001	Prep. Physical Science	2	0	2	PYP 002	Prep. Computer Science	0	2	1
PYP003	University Study Skills	0	2	1	ME 003	Prep. Eng. Technology	0	2	1
PE 001	Prep. Health and Physical Educ. I	0	2	1	PE 002	Prep. Health and Physical Educ. II	0	2	1
		20	10	16			18	12	15
Total credit hours required in Preparatory Program: 31									
First Year (Freshman)									
CHEM 101	General Chemistry I	3	4	4	IAS 101	Practical Grammar	2	0	2
PHYS 101	General Physics I	3	3	4	PHYS 102	General Physics II	3	3	4
MATH 101	Calculus I	4	0	4	MATH 102	Calculus II	4	0	4
ENGL 101	Intro. to Academic Discourse	3	0	3	ENGL 102	Intro. to Report Writing	3	0	3
IAS 111	Belief and its Effects	2	0	2	ICS 103	Computer Programming in C	2	3	3
PE 101	Health and Physical Educ. I	0	2	1	PE 102	Health and Physical Educ. II	0	2	1
		15	9	18			14	8	17
Second Year (Sophomore)									
ME 203	Thermodynamics I	3	0	3	ME 218	Intro. to Mechanical Eng. Design	1	3	2
MATH 201	Calculus III	3	0	3	ME 201	Dynamics	3	0	3
ME 210	Mechanical Eng. Drawing & Graphics	2	3	3	ME 204	Thermodynamics II	3	0	3
ME 216	Materials Science and Eng.	3	0	3	MATH 202	Elements of Differential Eq.	3	0	3
ME 217	Materials Lab	0	3	1	CE 203	Structural Mechanics I	3	0	3
CE 201	Statics	3	0	3	EE 204	Fundamentals of Electrical Circuits	2	3	3
ENGL 214	Academic & Professional Comm.	3	0	3	IAS 201	Objective Writing	2	0	2
		17	6	19			17	6	19
Third Year (Junior)									
ME 322	Manufacturing Processes	3	0	3	ME 309	Mechanics of Machines	3	0	3
ME 323	Manufacturing Lab	0	3	1	ME 308	Machine Design II	3	3	4
IAS 212	Professional Ethics	2	0	2	ME 315	Heat Transfer	3	0	3
ME 307	Machine Design I	3	0	3	ME 316	Thermofluids Lab	0	3	1
ME 311	Fluid Mechanics	3	0	3	MATH 301	Methods of Applied Math	3	0	3
EE 306	Electromechanical Devices	2	3	3	GS xxx	GS Elective I	3	0	3
IAS 301	Language Comm. Skills	2	0	2	ME 414	Design Project I	1	0	1
		15	6	17			16	6	18
Summer Session					ME350	Cooperative Work	0	0	0
Fourth Year (Senior)									
ME 351	Cooperative Work	0	0	9	ME 416	Design Project II	0	6	2
					ME 406	Manufacturing and Design	3	0	3
					ME 407	Advanced Manufacturing Lab	0	3	1
					ME 413	Systems Dynamics and Control	2	3	3
					ME 4xx	ME Elective	3	0	3
					IAS 322	Human Rights in Islam	2	0	2
					GS xxx	GS Elective II	3	0	3
		0	0	9			13	12	17
Total credit hours required in Degree Program : 134									