

ME FlowChart - Internship Option

Freshman		Semester 1		
Course	Title	LT	LB	CR
CHEM 101	Principles of Chemical Science I	3	3	4
ENGL 101	Intro to Academic Discourse	3	0	3
IAS 121	Language Foundation	2	0	2
MATH 101	Calculus I	4	0	4
PE 101	Health & Physical Education I	0	2	1
PHYS 101	General Physics I	3	3	4
Total		15	8	18

Sophomore		Semester 1		
Course	Title	LT	LB	CR
CE 202	Statics & Strength of Materials	3	0	3
ENGL 214	Academic & Professional Communication	3	0	3
MATH 201	Calculus III	3	0	3
ME 203	Thermodynamics I	3	0	3
ME 210	Mechanical Engineering Drawing and Graphics	2	3	3
MSE 201	Materials Science and Engineering	3	0	3
MSE 202	Materials Lab	0	3	1
Total		17	6	19

Junior		Semester 1		
Course	Title	LT	LB	CR
COE 292	Introduction to Artificial Intelligence	3	0	3
IAS 212	Ethics and Governance	2	0	2
STAT 319	Probability and Statistics for Engineers and Scientists	2	3	3
ME 301	Machine Design I	3	0	3
ME 311	Fluid Mechanics	3	0	3
ME 322	Manufacturing Processes	3	0	3
ME 323	Manufacturing Lab	0	3	1
Total		15	6	18

Senior		Semester 1		
Course	Title	LT	LB	CR
ME398	Internship	0	0	6
ME 411	Senior Design Project I	0	0	0
Total		0	0	6

Freshman		Semester 2		
Course	Title	LT	LB	CR
ENGL 102	Introduction to Argument Writing	3	0	3
IAS 111	Belief and its Consequences	2	0	2
ICS 104	Intro to Programming in Python and C	2	3	3
MATH 102	Calculus II	4	0	4
PHYS 102	General Physics II	3	3	4
Total		14	6	16

Sophomore		Semester 2		
Course	Title	LT	LB	CR
EE 236	Electronics and Microcontrollers (Non-EE students)	3	0	3
EE 237	Electronics and Microcontrollers Lab (Non-EE students)	0	3	1
ISE 291	Introduction to Data Science	3	0	3
MATH 208	Elements of Differential Equations	3	0	3
ME 201	Dynamics	3	0	3
ME 204	Thermodynamics II	3	0	3
ME 218	Introduction to ME Design	1	3	2
Total		16	6	18

Junior		Semester 2		
Course	Title	LT	LB	CR
BUS 200	Business & Entrepreneurship	3	0	3
CGS 392	Career Essentials	0	2	1
MATH 371	Intro to Numerical Computing	2	2	3
ME 302	Machine Design II	3	0	3
ME 303	Mechanical System Design Lab	0	3	1
ME 315	Heat Transfer	3	0	3
ME 316	Thermo-Fluid Lab	0	3	1
IAS xxx	Islamic/Arabic Elective	2	0	2
Total		13	10	17

Senior		Semester 2		
Course	Title	LT	LB	CR
ME 401	System Dynamics & Control	3	0	3
ME 402	Measurements and Control Laboratory	0	3	1
ME 412	Senior Design Project II	0	0	3
GS xxx	GS Elective	3	0	3
ME 4xx	ME Elective I	3	0	3
ME 4xx	ME Elective II	3	0	3
Total		12	3	16
Grand Total		128		