LAU School of Engineering

Extended Office Practice Study Plan

The following provides the regular and extended office practice study plan in **Mechatronics Engineering**

Regular Study Plan

Year One		
Fall (17 credits)		
CIE 200	Statics	3
ENG 202	Advanced Academic English	3
PHY 201	Electricity and Magnetism	4
MTH 201	Calculus III	3
MTH 207	Discrete Structures I	3
COE 201	Computer Proficiency	1
Spring (17 credits)		
MEE 211	Engineering Graphics	1
COE 211	Computer Programming	4
MTH 206	Calculus IV	3
MTH 304	Differential Equations	3
MEE 241	Dynamics	3
ELE 201	Electrical Circuits I	3
Summer (9 credits)		
_	LAS Elective	3
_	LAS Elective	3
GNE 331	Probability and Statistics	3
Year Two		
Fall (16 credits)		
MEE 321	Material Properties & Processes	3
ELE 302	Electrical Circuits II	3
ELE 303	Electrical Circuits II Lab	1
COE 312	Data Structures	3
COE 321	Logic Design	3
COE 322	Logic Design Lab	1
GNE 301	Professional Communication	2
Spring (17 credits)		
ELE 401	Electronics I	3
ELE 402	Electronics I Lab	1
COE 313	Data Structures Lab	1
MEE 320	Strength of Materials	3
COE 323	Microprocessors	3
MEE 391	Instrumentation and Measurements	3
ELE 430	Signals and Systems	3
Summer (6 credits)		
COM 203	Fundamentals of Oral Communication	3
	LAS Elective	3

Study Plan with Extended Experiential Learning

Year One		
Fall (17 credits)		
CIE 200	Statics	3
ENG 202	Advanced Academic English	3
PHY 201	Electricity and Magnetism	4
MTH 201	Calculus III	3
MTH 207	Discrete Structures I	3
COE 201	Computer Proficiency	1
Spring (17 credits)		
MEE 211	Engineering Graphics	1
COE 211	Computer Programming	4
MTH 206	Calculus IV	3
MTH 304	Differential Equations	3
MEE 241	Dynamics	3
ELE 201	Electrical Circuits I	3
Summer (9 credits)		
_	LAS Elective	3
_	LAS Elective	3
GNE 331	Probability and Statistics	3
Year Two		
Fall (16 credits)		
MEE 321	Material Properties & Processes	3
ELE 302	Electrical Circuits II	3
ELE 303	Electrical Circuits II Lab	1
COE 312	Data Structures	3
COE 321	Logic Design	3
COE 322	Logic Design Lab	1
GNE 301	Professional Communication	2
Spring (17 credits)		
ELE 401	Electronics I	3
ELE 402	Electronics I Lab	1
COE 313	Data Structures Lab	1
MEE 320	Strength of Materials	3
COE 323	Microprocessors	3
MEE 391	Instrumentation and Measurements	3
ELE 430	Signals and Systems	3
COM 203	Fundamentals of Oral Communication	3
	LAS Elective	3

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Regular Study Plan

Year Three		
Fall (17 credits)		
ELE 442	Control Systems	3
ELE 443	Control Systems Lab	1
MEE 311	Fluid Mechanics	3
MEE 312	Fluid Mechanics Lab	1
MEE 351	Computer Aided Design	3
GNE 303	Engineering Ethics	2
COE 324	Microprocessors Lab	1
MCE 410	Mechatronics System Design I	3
Spring (15 credits)		
MEE 341	Kinematics & Dynamics of Linkages	3
MCE 301	Electromechanics	3
MCE 411	Mechatronics System Design II	3
	MCE Technical Elective	3
GNExxx	SOE Signature Course	3
	Summer (6 credits)	
MCE 498	Professional Experience	6
	Year Four	
	Fall (15 credits)	
MEE 301	Thermodynamics	3
MCE 591	Capstone Design Project I	3
	MCE Technical Elective	3
	MCE Technical Elective	3
INE 320	Engineering Economy I	3
	Spring (15 credits)	
INE 428	Project Management	3
MEE 422	Mechanical Engineering Design	3
MCE 592	Capstone Design Project II	3
	MCE Technical Elective	3
	LAS Elective	3

Study Plan with Extended Experiential Learning

Year Three		
Fall (17 credits)		
ELE 442	Control Systems	3
ELE 443	Control Systems Lab	1
MEE 311	Fluid Mechanics	3
MEE 312	Fluid Mechanics Lab	1
MEE 351	Computer Aided Design	3
GNE 303	Engineering Ethics	2
COE 324	Microprocessors Lab	1
MCE 410	Mechatronics System Design I	3
Spring (15 credits)		
MEE 341	Kinematics & Dynamics of Linkages	3
MCE 301	Electromechanics	3
MCE 411	Mechatronics System Design II	3
	MCE Technical Elective	3
GNExxx	SOE Signature Course	3
	Summer (6 credits)	
MCE 498	Professional Experience	6
	Year Four	
	Fall (credits)	
Extended Experiential Learning		
	Spring (15 credits)	
INE 428	Project Management	3
MEE 422	Mechanical Engineering Design	3
MCE 591	Capstone Design Project I	3
	MCE Technical Elective	3
	LAS Elective	3
Year Five		
Fall (15 credits)		
MEE 301	Thermodynamics	3
MCE 592	Capstone Design Project II	3
	MCE Technical Elective	3
	MCE Technical Elective	3
INE 320	Engineering Economy I	3