

B.S. Mechatronics Degree (IME)

This is not an official list of degree requirements. Adjustments may be required due to curriculum changes.

First Year

Fall

Course	Prerequisite	Credit
ENG 1101 Engineering Analysis and Problem Solving	≥MA1031(c)	3
MA 1161 Calculus w/ Technology I	placement	4
CS 1121 Intro to Programming I	≥MA1031(c)	3
HF 2000 Intro to Engineering Psych	none	3
UN 1015 Composition	none	3
Total		16

Spring

Course	Prerequisite	Credit
EET 1121 Circuits I	≥MA1031	3
EET 1122 Circuits I Lab	≥MA1031	1
PH 1140 Applied College Physics	≥MA1031	3
PH 1111 College Physics Lab	≥MA1031	1
MA 2160 Calculus w/ Technology II	≥MA1160	4
EssEd: Arts & Culture		3
EssEd: Activities for Wellbeing&Success		1
Total		16

Second Year

Fall

Course	Prerequisite	Credit
EET 2121 Circuits II	EET1121	3
EET 2122 Circuits II Lab	EET1122	1
EET 2233 Electrical Machinery	EET1121	4
EET 2411 Digital Electronics	EET1121	3
MET 2110 Applied Statics	PH1140	3
SAT 2711 Linux Fundamentals	CS1121	3
Total		17

Spring

Course	Prerequisite	Credit
EET 3131 Sensors and Instrumentation	EET2121	3
EET 2150 Applied Math for Eng. Tech.	MA2160(c)	3
MET 2130 Applied Dynamics	MET2110	4
MA 3710 Engineering Statistics	MA2160	3
EssEd: Intercultural Competency		3
Total		16

Third Year

Fall

Course	Prerequisite	Credit
EET 3144 Intro to Industrial Robotics	none	3
EET 3373 Intro to Programmable Controllers	EET2121	3
MET 2150 Applied Strength of Materials	MET2110	3
HF 3850 Human Factors	HF2000	3
EssEd: Communication Intensive		3
EssEd: Activities for Wellbeing&Success		1
Total		16

Spring

Course	Prerequisite	Credit
EET 4601 Mechatronic System Design	EET4233(c)	3
EET 4233 Power Electronics and Drive	EET2233	3
EET 4311 Control Systems	MET2130	3
MET 3345 Machine Design for Mechatronics	MET2150	3
EssEd: Experience		3
Total		15

Fourth Year

Fall

Course	Prerequisite	Credit
EET 4460 Senior Project I	EET3131	3
EET 4999 Professional Practice in EET	none	1
MET 4377 Applied Fluid Power	MET2130	3
EET 4144 Real-Time Robotics Systems	EET2121	4
Technical Elective	varies	3
EssEd: Activities for Wellbeing&Success		1
Total		15

Spring

Course	Prerequisite	Credit
EET 4480 Senior Project II	EET4460	3
Technical elective	varies	3
Technical elective	varies	3
Free elective		3
Total		12

Grand Total = 120 + 3 Credits