Program Curriculum for Electro-Mechanical (Mechatronics) Technology

Sem.	Dept.	Course #	Course Title	Course Credits	General Education Credits	Program Credits
1	ELME	104	Mechanical Systems I	4		
1	ELME	105	Manufacturing Fundamentals	4		
1	ELME	107	Electrical Systems I	4		12
1	ENG	106	English Composition	3		
1	MATH	131	Intermediate Algebra **- or -** Pre-Calculus (4 credits)	3	6	
2	ELME	109	Programmable Logic Controllers I	4		
2	ELME	116	Mechanical Systems II	4		
2	ELME	117	Electrical Systems II	4		12
2	MATH	141	Trigonometry **-or-** Elective (if Pre-Calc)	3		
2	ENG	216	Technical Report Writing	3	6	
3	ELME	204	Mechanical Systems III	4		
3	ELME	208	Programmable Logic Controllers II	4		

3	ELME	215	Robotics and Motion Control	4		12
3	PHYS	213	General Physics	4		
3	ELECTIVE		General Elective	3	7	
4	ELME	214	Mechatronics Seminar & Advanced Project	4		
4	ELME	218	Process Control and Industrial Instrumentation	4		
4	ELME	225	Computer Integrated Manufacturing Systems & PLC III	4		12
4	HUMANITIES		General Education Elective	3	6	
Add. Gen. Ed.	HEALTH	106 -or- 111	Elective	1		
Add. Gen. Ed.	ELECTIVE		General Studies Elective	3		
Add. Gen. Ed.	ELECTIVE		General Studies Electives	3	7	
			TOTAL CREDITS	74		