

Individual Graduation Plan
A40350 – Mechatronics Engineering Technology
 Fall 2017

Student Name: _____

Student No: _____

The Mechatronics Engineering Technology curriculum is designed to prepare students through the study and application of principles from mathematics, natural sciences, and technology and applied processes based on these subjects. Course work includes mathematics, natural sciences, engineering sciences and technology. Graduates should qualify to obtain occupations such as technical service providers, materials and technologies testing services, process improvement technicians, engineering technicians, industrial and technology managers, or research technicians. A course of study that prepares the students to use basic engineering principles and technical skills in developing and testing automated, servomechanical, and other electromechanical systems. Includes instruction in prototype testing, manufacturing and operational testing, systems analysis and maintenance procedures. Graduates should be qualified for employment in industrial maintenance and manufacturing including assembly, testing, startup, troubleshooting, repair, process improvement, and control systems, and should qualify to sit for Packaging Machinery Manufacturers Institute (PMMI) mechatronics or similar industry examinations.

Developmental Requirements

(Some developmental requisites may be waived based on placement scores, course selection, etc.)

Year	Semester	Grade	Course Number and Title	Hrs	Prerequisites	Corequisites	
			CIS 070	Fundamentals of Computing	1		
			DMA 010	Operations with Integers	1		
			DMA 020	Fractions and Decimals	1*	DMA 010	
			DMA 030	Propor/Ratio/Rate/Percent	1*	DMA 010 and 020	
			DMA 040	Express/Lin Equat/Inequal	1*	DMA 010, 020 and 030	
			DMA 050	Graphs/Equations of Lines	1*	DMA 010, 020, 030 and 040	
			DMA 065	Algebra for Precalculus	2*	DMA 010, 020, 030, 040, and 060	
			DRE 096	Integrated Reading and Writing	3		
			DRE 097	Integrated Reading Writing II	3*	DRE 096	
			DRE 098	Integrated Reading Writing III	3*	DRE 097	

Curriculum Program Requirements

Year	Semester	Grade	Course Number and Title	Hrs	Prerequisites	Corequisites
			1st Semester			
			ACA 115	Success & Study Skills	1	
			ATR 115	Introduction to Mechatronics	4	
			CIS 110	Introduction to Computers	3	
			DFT 119	Basic CAD	2	
			ELC 131	Circuit Analysis I	4*	DMA 010, DMA 020 and DRE 096
			2nd Semester			
			ATR 112	Intro to Automation	3	
			ELC 117	Motors and Controls	4	
			ELN 133	Digital Electronics	4	
			HYD 110	Hydraulics/Pneumatics I	3	

3 rd Semester							
			ENG 111	Writing and Inquiry	3*	DRE 098	CIS 070 or CIS 110
			MAT 171	Precalculus Algebra	4*	DMA 010, DMA 020, DMA 030, DMA 040, DMA 050 and DMA 065	DRE 096
			HUM 115	Critical Thinking	3*	DRE 098	
4 th Semester							
			ELC 128	Intro to PLC	3	ELC 117 or ELC 131	
			ELC 213	Instrumentation	4		
			MEC 130	Mechanisms	3		
			PSY 150	General Psychology	3*	DRE 096	
5 th Semester							
			COM 231	Public Speaking	3*	DRE 096	
			ELC 125	Diagrams and Schematics	2		
			ISC 112	Industrial Safety	2		
			MEC 111	Machine Processes I	3		
			PHY 151	College Physics I	4	MAT 171	

TOTAL PROGRAM HOURS REQUIRED =	65	
Total Developmental Hours Required * =		
Total Hours Required =		

* Hours may be required as indicated by placement scores increasing the number of semester hours required for program completion.

Notes:

<hr/> <i>Student Signature</i>	<hr/> <i>Date</i>
<hr/> <i>Advisor/Counselor Signature</i>	<hr/> <i>Date</i>