

**Engineering Technology:  
Electromechanical Engineering****EME.AAS**

<b>FIRST YEAR/FIRST SEMESTER</b>			
<b>Course #</b>	<b>Course Name</b>	<b>Credits</b>	<b>Notes</b>
ENG-101	English Composition I	3	Must test into ENG-101 or complete all appropriate prerequisites
CIM-101	Machine Shop Practices	3	
EET-101	Electrical/Electronic Principles	4	<b>Prerequisite:</b> MTH-120, MTH-123, or MTH-125
MTH-125	Accelerated Pre-calculus	4	Must test into MTH-125 or take all Prerequisites
ELECTIVE	Social Science General Education Elective	3	
<b>FIRST YEAR/SECOND SEMESTER</b>			
ENG-102	English Composition II	3	<b>Prerequisite:</b> ENG-101
CAD-101	Computer Aided Engineering Graphics	4	
EET-211	Electronics I	3	<b>Prerequisite:</b> EET-101
PHY-101	Physics I	4	<b>Prerequisite:</b> MTH-100, <b>Co-requisite:</b> MTH-124 or MTH-125
ELECTIVE	Diversity: Humanities General Education Elective	3	
<b>SECOND YEAR/FIRST SEMESTER</b>			
EET-221	Digital Circuits	3	<b>Prerequisite:</b> EET-101
EET-241	Robotics	3	<b>Prerequisite:</b> EET-101
CIM-211	PLC Programming	4	
PHY-102	Physics II	4	<b>Prerequisite:</b> PHY-101
<b>SECOND YEAR/SECOND SEMESTER</b>			
CIM-115	Microcontroller Applications	3	
CIM-231	Motors, Controllers and Sensors	3	<b>Prerequisite:</b> CIM-211
CIM-251	CIM Integration Project	2	<b>Prerequisite:</b> CIM-101, CIM-211 and CIM-221; <b>Co-requisite:</b> CIM-231
MTH-132	Statistics for Technology	4	<b>Prerequisite:</b> MTH-100
<b>TOTAL CREDITS</b>		<b>60</b>	

**PROGRAM DESCRIPTION**

The program prepares graduates to work in an engineering environment and to assist with the design, development, testing, programming, installation, and maintenance of electro-mechanical systems

**PROGRAM STUDENT LEARNING OUTCOMES**

At the end of the program, the graduate will be able to:

1. Integrate electronic control of a mechanical system or process.
2. Analyze and solve electro-mechanical system problems.
3. Use productivity and computerized circuit simulation software to analyze experimental data from electro-mechanical systems.
4. Write and orally present theory, concept or analysis of a complex electromechanical system problem or electronic project.

**CONTACT PERSONS**

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**SPECIAL PROGRAM REQUIREMENT**

Students should have an adequate background in algebra and trigonometry.