



Martin Community College

High School-To-College APPLIED ENGINEERING TECHNOLOGY Pathway



The Applied 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.

A course of study that prepares the students to use basic engineering principles and technical skills to solve technical problems in various types of industry. The course work emphasizes analytical and problem-solving skills. The curriculum includes courses in safety, math, physics, electricity, engineering technology, and technology-specific specialty areas.

Upon completion of this curriculum, students should be able to qualify for employment in a wide range of positions in research and development, manufacturing, sales, design, inspection, or maintenance. Employment opportunities exist in automation, computer, electrical, industrial, or mechanical engineering fields, where graduates will function as engineering technicians.

Student Learning Outcomes:

- Interpret electrical circuit schematics to properly design, construct, verify, and analyze DC/AC circuits.
- Utilize dedicated computer software to solve electrical/electronic problems.
- Demonstrate knowledge of a safe working environment and compliance with governing safety organizations.
- Use proper testing equipment to troubleshoot motors and control circuits.
- Design unique structures, objects, circuits, and systems for various developmental applications.

PATHWAY: HS Diploma + Applied Engineering Technology Diploma (D40130P)										
	Grade		English/ Lang. Arts	Math	Science	Social Studies	Health & PE	CTE Electives	Career & College Promise College Credit Courses taught by MCC Faculty	
SECONDARY	9	Fall	English I	Fnd. Of Math I	Earth/Env. Sci.	-----	Health/PE	-----	-----	
		Spring	-----	Math I	-----	World History	-----	-----	ACA 115, ISC 112	
	10	Fall	-----	Math II	Phy. Science	-----	-----	-----	*MEC 111, **CIS 110	
		Spring	English II	-----	-----	Civics	-----	-----	PSY 118	
	11	Fall	English III	Math III	Found of Bio.	American Hist	-----	-----	*ELC 112, *ELC 113	
		Spring	-----	-----	Biology	-----	-----	-----	*ELC 117, *ELC 128	
	12	Fall	English IV	-----	-----	Econ. & Personal Finance	-----	-----	*ELC 127	
		Spring	-----	Math IV	-----	-----	-----	-----	*HYD 110, *MEC 110	
		Summer	ENG 110							
	Congratulations! High School Graduation! Next Step: Submit MCC Admission Application									
	POST	13	Fall	<i>AHR 110, BPR 111, ELC 118, ELC 125, MAT 110</i>						
			Spring	<i>ENG 115, **Humanities/Fine Arts Elective, WLD 141</i>						
Completion of courses in black/bold earn an Applied Engineering Diploma (D40130). Completion of courses in <i>red/italics</i> earn an Applied Engineering Technology A.A.S. Degree (A40130).										
Congratulations! College completion of an Applied Engineering Technology A.A.S. Degree (A40130).										

*Only offered at MCC Williamston Campus

**College transfer courses that may be applied to a University Baccalaureate Degree Transfer Program.