

Engineering Technology: Electromechanical Engineering

EME.AAS

CODE	COURSE	CREDITS	CODE	COURSE	CREDITS
First Year/First Semester			Second Year/First Semester		
ENG-101	English Composition I	3	EET-221	Digital Circuits	3
CIM-101	Machine Shop Practices	3	EET-241	Robotics	3
EET-101	Electrical/Electronic Principles	4	CIM-211	PLC Programming	4
MTH-125	Accelerated Precalculus ¹ or		PHY-102	Physics II or	
MTH-140	Calculus I ²	4	PHY-202	Physics IV	4
.....	Social Science General Education Elective ³	3	CSC-111	Introduction to Programming or	
		17	CSC-121	Structured Programming (C++)	3/4
					17/18
Second Semester			Second Semester		
ENG-102	English Composition II	3	MET-233	Project Design or	
CAD-101	Computer Aided Engineering Graphics	4	EGR-208	Co-op I: Engineering	3
EET-211	Electronics I	3	CIM-231	Motors, Controllers and Sensors	3
PHY-101	Physics I or		MTH-132	Statistics for Technology or	
PHY-201	Physics III	4	MTH-150	Calculus II ²	4
.....	Diversity - Humanities General Education Elective	3	Technical Elective ⁴	3/4
		17			13/14
					64
				Total Minimum Credits	

¹ The Pre-Calculus Mathematics (MTH-123) & Pre-Calculus Math II (MTH-124) series of course may be substituted for Accelerated Precalculus (MTH-125).

² All students transferring to NJIT, Temple, Drexel and Thomas Edison must take the Calculus I, II track.

³ Economics (ECO-102) is recommended.

⁴ Courses in physical sciences, high technology curricula (CADD, CIM, CST), mathematics, and computer programming will fulfill this elective.

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 GOALS

- To prepare students to seek employment as a technician or junior engineer, using industrial test and measurement equipment to evaluate and trouble-shoot the operation of an electromechanical machine or system.
- To instill in the students a commitment to lifelong learning which fosters in them a desire to transfer credits to a baccalaureate program in electro-mechanical engineering technology.
- To provide students with a General Education foundation.

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 electro-mechanical system problem or electronic project.

SPECIAL PROGRAM REQUIREMENT

Students should have an adequate background in algebra and trigonometry.

EMPLOYMENT OPPORTUNITIES

- Junior engineer
- Field service engineer
- Lab technician
- Quality control specialist
- Production technician
- Technical salesperson

TRANSFER INSTITUTIONS

- Drexel University
- Temple University
- New Jersey Institute of Technology

CONTACT PERSONS

Dr. Lawrence M. Chatman, Coordinator
(856) 227-7200, ext. 4523
email: lchatman@camdencc.edu

Dr. Melvin L. Roberts
(856) 227-7200, ext. 4942
email: mroberts@camdencc.edu

Highlights

This program transfers to New Jersey Institute of Technology, Temple University, Thomas Edison College, and Drexel University.