

Electromechanical Technology

The electromechanical technology program will allow students to learn the skills and knowledge to install, maintain, and repair complex industrial equipment. The students will focus on electrical principles, circuitry, electrical controls, robotics, print reading, programming, computer-aided drafting, mechanical systems and other components related to electromechanical repair. Students will acquire the knowledge and skills through concentrated classroom and hands-on learning. Successful graduates are placed in industrial plants, hospitals, schools, apartment complexes, office buildings and other building maintenance positions. (Enrollment into this program is limited and is based on the date of application.)

Required Program of Study for Associate of Applied Science Degree (2 years)

<i>Freshman Year</i>

FIRST SEMESTER	
Course	Credits
ELMC 1010 Fundamentals of Electricity	3
ELMC 1020 Fundamentals of Electricity Lab.....	2
ELMC 1030 Orientation & Safety.....	2
ELMC 1050 Introduction to Machining/Welding	1
ELMC 1060 Introduction to Machining/Welding Lab	2
ELMC 1070 Automation Fundamentals.....	3
ELMC 1090 Mechanical Matter & Energy	3
MATH 1020 Applied Mathematics I.....	3
	19

SECOND SEMESTER	
Course	Credits
ELMC 1110 Motor Controls.....	2
ELMC 1120 Motor Controls Lab	2
ELMC 1150 Introduction to Mechanics	3
ELMC 1160 Introduction to Mechanics Lab	3
ELMC 1170 Total Quality Management	2
ELMC 1290 Job Search & Employment.....	1
ECON 1010 Personal Finance.....	2
MATH 1060 Applied Mathematics II	3
	18

SUMMER: 12 weeks	
ELMC 1300 Cooperative Internship I	8

<i>Sophomore Year</i>

FIRST SEMESTER	
Course	Credits
ELMC 2010 Introduction to Automated Controls.....	2
ELMC 2020 Introduction to Automated Controls Lab.....	2
ELMC 2030 Motor Repair.....	2
ELMC 2040 Motor Repair Lab.....	1
ELMC 2050 Fluid Fundamentals	2
ELMC 2060 Fluid Fundamentals Lab	2
ELMC 2070 Machine Repair.....	2
ELMC 2080 Machine Repair Lab	2.5
	15.5

SECOND SEMESTER	
Course	Credits
ELMC 2110 Control Systems.....	3
ELMC 2120 Control Systems Lab	2.5
ELMC 2150 Solid State Fundamentals	4
ELMC 2170 Electromechanical Systems	1
ELMC 2190 Electromechanical Systems Lab	2
PSYC 1000 Human Relations	2
ENGL 1050 Career Composition.....	3
	17.5

Total Credit Hours	78
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