

Division of Applied Science

Associate of Applied Science Computerized Manufacturing Technology Electromechanical Technology Specialization (726-01)

Program Description

The Electromechanical Technology Specialization of the Computerized Manufacturing Technology program trains students in various electrical, electronic, and mechanical components of systems and upon successful completion, awards the Associate of Applied Science Degree. Emphasis is on programmable logic controllers, motor controls, piping systems, valves, and related components, and process controllers. Computer skills and teamwork are also emphasized.

The electromechanical program will provide students with the knowledge and skills necessary to assume employment as competent electromechanical technicians. The program was developed in cooperation with Eastman Chemical Company. There are two tracks: 1.) After the first year of the program, students have the opportunity for a one-year internship with Eastman after which they will return to MECC to finish the AAS degree (three years total), or 2.) Students may elect to forgo the internship at Eastman and complete the AAS at MECC (two years total). After completing the associate degree the student is eligible to begin the nationally recognized apprenticeship program at Eastman.

Opportunities for Employment

Companies need competent electromechanical technicians. The electromechanical program was designed to meet this increasing need. The skills developed in this program will prepare students for jobs in chemical processing, coal mining, power plants and manufacturing. Jobs are available as electromechanical technicians, quality assurance technicians, and maintenance technicians.

Program Requirements

Individuals who have taken courses at career centers or other work related training

PROGRAM OF STUDY

| FIRST YEAR FALL | | | | |
|---|-----|---|---------------|-----------------|
| <i>Course #</i> | | <i>Course Title</i> | <i>Credit</i> | <i>Progress</i> |
| DRF | 160 | Machine Blueprint Reading | 3 | |
| ELE | 140 | Basic Electricity & Machinery | 4 | |
| SAF | 126 | Industrial Safety | 3 | |
| MEC | 120 | Principles of Machines | 3 | |
| MTH | 103 | Applied Technical Mathematics | 3 | |
| SDV | 100 | College Success Skills | 1 | |
| FIRST YEAR SPRING | | | | |
| ENG | 111 | College Composition I | 3 | |
| ELE | 156 | Electrical Control Systems | 3 | |
| ITE | 119 | Information Literacy | 3 | |
| MEC | 113 | Materials and Processes of Industry I | 4 | |
| | | Humanities Elective | 3 | |
| SECOND YEAR FALL | | | | |
| ETR | 218 | Ind. Electronics Circuits | 4 | |
| HLT | 105 | CPR | 1 | |
| PHY | 131 | Applied Physics | 3 | |
| IND | 101 | Quality Assurance Tech | 3 | |
| IND | 125 | Installation and Preventive Maintenance | 3 | |
| MEC | 205 | Piping & Auxiliary Systems | 3 | |
| SECOND YEAR SPRING | | | | |
| ELE | 239 | Programmable Controllers | 3 | |
| MEC | 266 | Fluid Mechanics | 3 | |
| IND | 137 | Team Concepts and Problem Solving | 3 | |
| | | Welding Elective | 3 | |
| | | Social Science Elective | 3 | |
| Total Minimum Credits for Degree | | | 65 | |

programs may be able to obtain articulation credit for these courses. Dual enrollment classes have been developed at local vocational technical career centers and high schools.

For Further Information Contact:

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