



Mountain Empire Community College Publication Change Form

Please fill in and print this page to request changes to MECC's publications. This process provides for MECC's publications on the college's web site to be maintained with up-to-date information, unlike the printed copies that are updated once a year.

Change Applies to: Catalog Student Handbook Other _____

Type of Change: Update Deletion Addendum

Does the change need to be applied to the website? Yes No

If yes, which web page(s) requires the change? CMT Electromechanical Specialization (726-01)

Current Page Number: 211 -or- Proposed Page Number: _____

Effective Date: Fall 2019

Brief Description of Change:

Remove MEC 120 Principals of Machining Technology
Add MEC 154 Mechanical Maintenance I
Remove Roger Greene from Contact add Eric McMurray

Person Submitting Change:

Tommy Clements

Name (print)


Signature

Vice President of Academic Affairs and Workforce Solutions:


Signature

3-22-19
Date

Send this form and attachments to the office of the Vice President of Academic Affairs and Workforce Solutions.

MANUFACTURING

Associate of Applied Science Degree

CMT - ELECTROMECHANICAL TECHNOLOGY SPECIALIZATION (726-01)

Purpose

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. 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.

Program Learning Outcomes (PLO): Upon successful completion, students will be able to:

1. Practice industry recognized safety practices and guidelines, including the use of personal protective equipment in an industrial operating environment.
2. Interpret drawings, schematics, and specifications for industrial equipment.
3. Use precision measuring equipment.
4. Troubleshoot and repair electromechanical and electronic equipment and systems.
5. Modify, install, maintain, and program electronic and electromechanical systems.
6. Modify, install, and maintain hydraulic and pneumatic systems.
7. Work as an effective member of a workgroup.

Employment Opportunities

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

Students should have English and Mathematics skills assessed. Deficiencies in these areas may be corrected by completing the appropriate developmental studies courses.

FOR FURTHER INFORMATION, CONTACT:

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COMPUTERIZED MANUFACTURING TECHNOLOGY - ELECTROMECHANICAL TECHNOLOGY SPECIALIZATION PROGRAM OF STUDY

Course #	Course Title	Credit	Pre-Requisite Courses (if applicable)
FIRST YEAR FALL			
DRF 160	Machine Blueprint Reading	3	
ELE 140	Basic Electricity & Machinery	4	
SAF 126	Industrial Safety	3	
<i>ELIGIBLE FOR NCCER CONSTRUCTION CORE & LEVEL 1 ELECTRICAL CERTIFICATION</i>			
MEC 154	Mechanical Maintenance I	3	
MTH 111	Basic Technical Math	3	
SDV 100	College Success Skills	1	
FIRST YEAR SPRING			
ENG 111	College Composition I	3	
ELE 156	Electrical Control Systems	3	ELE 140
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	ELE 140 or Div. Approval
HLT 105	CPR	1	
PHY 131	Applied Physics	3	MTH 106 or MTH 103
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	ELE 140, ELE 156
MEC 266	Fluid Mechanics	3	
IND 137	Team Concepts & Problem Solving	3	
	Welding Elective	3	
	Social Science Elective	3	
TOTAL PROGRAM CREDITS		65	

Notes and Additional Curriculum Options

Course substitutions may be available. Please see your advisor.