Mountain Empire Community College

3441 Mountain Empire Road
Big Stone Gap, VA 24219
276.523.2400
www.mecc.edu
2015-2016

Division of Applied Science & Technology

Associate of Applied Science Computerized Manufacturing Technology
Industrial Electronics Specialization (726-02)

Program Description

The Industrial Electronics specialization of the Computerized Manufacturing Technology major is designed to prepare students for employment in a wide variety of settings. While the primary emphasis of the degree focuses on the industrial and manufacturing areas, many graduates find employment in the health and service sectors as electronic or computer technicians. Course work includes a strong emphasis in the computer technology field including how to interface, upgrade and repair computer related equipment and systems. Job titles for graduates include electronic technician, electronic equipment repairer, quality assurance technician, computer repair technician, process control technician, engineering technician and manufacturing technician.

Opportunities for Employment

The Computerized Manufacturing Technology graduate can expect to see employment as and Electrical/Electronic Technician, electrical and electronics installer and Repairer.

Program Requirements

Students are required to take English and Mathematics placement tests. Due to the rapid change of this major, students are expected to take courses in the sequence they are listed and complete the major within two years. This major demands good students who genuinely like the technical area and want to help industry solve problems and increase productivity.

For Further Information Contact:

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PROGRAM OF STUDY

FIRST YEAR FALL				
Course #		*Course Title*	*Credit*	*Progress*
DRF	160	Machine Blueprint Reading	3	
ELE	140	Basic Electricity & Machinery	4	
SAF	126	Industrial Safety	3	
ENG	111	College Composition I	3	
MTH	105	Technical Mathematics I	2	
SDV	100	College Success Skills	1	
FIRST YEAR SPRING				
ELE	156	Electrical Control Systems	3	
ETR	143	Devices & Applications I	3	
ETR	168	Digital Circuit Fundamentals	3	
IND	137	Team Concepts and Problem Solving	3	
MTH	106	Technical Mathematics II	2	
		Humanities Elective	3	
SECOND YEAR FALL				
PHY	231	Applied Physics	3	
ETR	218	Ind. Electronics Circuits	4	
ETR	273	Computer Electronics I	4	
IND	160	Introduction to Robotics	3	
HLT	105	CPR	1	
SECOND YEAR SPRING				
ELE	239	Programmable Controllers	3	
MEC	113	Materials and Processes of Industry	4	
IND	295	Computer Integrated Projects I	3	
ITE	119	Information Literacy	3	
		Social Science Elective	3	
TOTAL CREDIT HOURS			**64**	