Associate of Applied Science Degree

Computerized Manufacturing Technology
Industrial Electronics Specialization (726-02)

About Our Program

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 names such as electronic technician, electronic equipment repairer, quality assurance technician, computer repair technician, process control technician, engineering technician and manufacturing technician.

Employment Outlook

The Bureau of labor Statistics, Occupational Outlook Handbook lists jobs in this category using the following descriptive headings; Engineering Technicians, Electrical and Electronic Installers and Repairers, Computer, Automated Teller, and Office Machine Repairers, and Electronic Home Entertainment Equipment Installers and Repairers. Please use the descriptive terms shown to search on the following website to obtain more information concerning salaries, job outlook and educational requirements typically required for employment in this field. http://www.bls.gov/oco/

Special Considerations

Students are required to take English and mathematics placement tests. Due to the rapid change of this major, student's 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.

Program Contacts

Mr. Tommy Clements, Dean

Faculty Contact: Mr. Roger Greene, Mr. Jimmie Garland

		Lec Hrs.	Lab Hrs.	Crse Cr.
First Year Fall				
DRF 160	Machine Blueprint Reading	3	0	3
ELE 140	Basic Electricity and Machinery	3	2	4
ENG 111	College Composition I	3	0	3
IND 108	Computer Applications	3	0	3
MTH 105	Survey of Tech Math I	2	0	2
SDV 100	College Success Skills	1	0	1
	Total			**16**
First Year Spring				
ELE 156	Electrical Motor Control	2	2	3
ETR 143	Devices & Applications I	2	3	3
ETR 168	Digital Circuit Fundamentals	3	0	3
IND 137	Team Concepts and Problem Solving	3	0	3
MTH 106	Survey of Tech Math II	2	0	2
Humanities Elective		3	0	3
	Total			**17**
Second Year Fall				
DRF 200	Survey of Computer-Aided Drafting & Design	3	2	4
ETR 218	Industrial Electronic Circuits	3	3	4
ETR 273	Computer Electronics I	3	3	4
IND 160	Introduction to Robotics	3	0	3
HLT/PED	Elective	1	0	1
	Total			**16**
Second Year				
ELE 239	Programmable Controllers	3	0	3
MEC 113	Materials and Processes of Industry	4	0	4
IND 295	Computer Integrated Projects I	2	3	3
SAF 126	Industrial Safety	3	0	3
Social Science Elective		3	0	3
	Total			**16**

65 Credits Required to Graduate