

ONE YEAR MAINTENANCE CERTIFICATE


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Students completing the One Year Maintenance Certificate have demonstrated that they have completed the coursework to be considered for Multi-Skilled Maintenance positions in a manufacturing facility. Multi-skilled maintenance personnel are able to work on electronic, mechanical, hydraulic, and pneumatic systems.


Mechanical Engineering Technology Major

Technical Standards

See here for details.

Code	Title	Hours
Math Elective		
Minimum 3 Credits		
IMT 1921	Technical Math II	3
MTH 1210	Mathematics I	3
MTH 1370	College Algebra	4
Electrical Elective		
Minimum 9 Credits		
EET 1110	Circuit Analysis I	3
EET 1120	Circuit Analysis II	3
EET 1130	Electronics	4
EET 1330	Digital Circuits	4
EET 2200	Panel Wiring and Arc Flash Safety	3
EET 2030	Motor Controls	3
EET 2310	Microcontroller Fundamentals	4
EET 2900	Electric Codes and Application	2
IMT 2080	Introduction to Electricity	3
IMT 2260	Industrial Electronic Controls	3
MET 1050	CAD for Electronics	2
Mechanical Elective		
Minimum 9 Credits		
MET 1000	Engineering Graphics with AutoCAD	3
MET 1010	Blueprint Reading and Sketching	3
FMS 2210	CAM/CNC Machining I	3
FMS 2220	CAM/CNC Machining II	3
FMS 2320	Manual Machining I	2
IMT 2810	Millwright Tools and Equipment	2
IMT 2820	Mechanical Power Transmission Systems	2
MET 1020	Material Science	3
MET 1110	Manufacturing Processes	3
Technical Elective		
Minimum 9 Credits		
AMT 1100	Welding and Fabrication	3
AMT 2970	 Troubleshooting Capstone	3

AMT 2550	Fundamentals of Plumbing and Pipefitting	2
FMS 2110	Basic Robotics and Mechatronics	3
EET 2911	Programmable Logic Controllers	3
FMS 2130	Industrial Mechatronics and Robotics	3
IMT 2170	Industrial Motor Drives	2
IMT 2710	Fundamentals of Refrigeration	2
IMT 2740	Advanced Refrigeration and HVAC	3
IMT 2750	Wastewater Treatment and Operation	2
IMT 2850	Power Plant Equipment	3
Total Hours		30

 The ePortfolio requirement has been phased out and the ePortfolio indicators are being removed from the site.

 Capstone

