

INDUSTRIAL TECHNOLOGY (CONT'D)

INDUSTRIAL MAINTENANCE TECHNOLOGY CERTIFICATE

Program Code: E.IMT.CER

Certificate

Graduation requirement — 37 semester hours

The Industrial Maintenance Technology Program prepares students to install and maintain the electromechanical, mechanical, pneumatic, and hydraulic systems used in manufacturing and building facilities. The student acquires knowledge of electrical power and motors, control systems, pumps, compressors, pneumatics, hydraulics, and power transfer devices. Students can expect to find employment as installers, technicians, and service representatives in manufacturing, sales, and customer service.

Suggested Full-Time Sequence

<i>FALL</i>	<i>SPRING</i>
<i>1st Semester</i>	<i>2nd Semester</i>
*DRT 119	ELT 150
ELT 111	MFT 113
MFT 110	*MFT 128
MAT 131	WLD 111
<i>SPRING</i>	<i>SPRING</i>
<i>3rd Semester</i>	<i>4th Semester</i>
ELT 131	ELT 134
ELT 179	MFT 117
MFT 210	

Required Program Courses (33 hours) Cr. Hrs.

ELT 111	Computer Applications for Technicians	2
ELT 131	Residential Wiring	3
ELT 134	Motors, Controls, and Drives	3
ELT 150	Introduction to Electricity and Electronics.	3
ELT 179	Industrial Controls.	3
MFT 110	Mechanical Assemblies.	3
MFT 113	Introduction to Hydraulics and Pneumatics	3
MFT 117	Pumps, Compressors, and Vacuum Systems . . .	3
MFT 210	Industrial Safety	3
WLD 111	Introduction to Welding	4
*DRT 119	Blueprint Reading and Technical Drawing	
or MFT 128	Quality Assurance	3

Required General Education Courses (4 hours)

MAT 131	Applied Mathematics	4
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Total Semester Credit Hours 37

COMPUTER-AIDED DRAFTING (CAD) CERTIFICATE

Program Code: E.CAD.CER

Certificate

Graduation requirement — 17 semester hours

The Computer-Aided Drafting (CAD) Certificate prepares graduates for entry-level work as CAD technicians in industry.

Required Program Courses (17 hours)

CAD 113	Computer-Aided Machine Design I.	4
CAD 117	Advanced AutoCAD — 3D Topics	3
CAD 122	Computer-Aided Machine Design II	4
CAD 124	Introduction to AutoCAD	3
DRT 119	Blueprint Reading and Technical Drawing.	3

Total Semester Credit Hours 17

INDUSTRIAL MACHINING CERTIFICATE

Program Code: E.IMC.CER

Certificate

Graduation requirement — 17 semester hours

The Industrial Machining Certificate prepares graduates for entry-level work in manual and/or CNC machining.

Required Program Courses (17 hours)

DRT 119	Blueprint Reading and Technical Drawing.	3
MFT 121	Basic Machine Processes	3
MFT 122	Intermediate Machine Processes	3
MFT 127	Introduction to CNC Programming — Turning and Milling	4
MFT 138	Intermediate CNC Programming — Turning and Milling	4

Total Semester Credit Hours 17

INDUSTRIAL TECHNOLOGY (CONT'D)

INDUSTRIAL WELDING CERTIFICATE

Program Code: E.IWT.CER

Certificate

Graduation requirement — 16 semester hours

The Industrial Welding Certificate prepares graduates for entry-level work as welders in industry. This program is designed to cover the necessary components for students to test for AWS D1-1 Certification upon completion.

Program Note

Students in this program whose reading placement level is CCS 098 are eligible to take ALS 199 Support for Workforce Training in place of CCS 098. For more information, contact the Center for Academic Success at 217/353-2005.

Suggested Full-Time Sequence

<i>FALL</i>	<i>SPRING</i>
<i>1st Semester</i>	<i>2nd Semester</i>
WLD 111	WLD 113
WLD 112	WLD 213
WLD 212	WLD 216

Required Program Courses (16 hours)

	Cr. Hrs.
WLD 111 Introduction to Welding	4
WLD 112 Gas Metal Arc Welding	2
WLD 113 Gas Tungsten Arc Welding	2
WLD 212 Advanced Gas Metal Arc Welding	2
WLD 213 Advanced Gas Tungsten Arc Welding	2
WLD 216 Welding Certification I	4
<i>Total Semester Credit Hours</i>	<u>16</u>

MACHINERY MAINTENANCE CERTIFICATE

Program Code: E.MMC.CER

Certificate

Graduation requirement — 18 semester hours

The Machinery Maintenance Certificate prepares graduates for entry-level work in industrial or machinery maintenance.

Required Program Courses (18 hours)

ELT 134	Motors, Controls, and Drives	3
ELT 150	Introduction to Electricity and Electronics.	3
ELT 179	Industrial Controls	3
MFT 110	Mechanical Assemblies	3
MFT 113	Introduction to Hydraulics and Pneumatics.	3
MFT 117	Pumps, Compressors, and Vacuum Systems	3

Total Semester Credit Hours 18