# INDUSTRIAL TECHNOLOGY: MAINTENANCE AND AUTOMATION

## INDUSTRIAL TECHNOLOGY: MAINTENANCE AND AUTOMATION A.A.S.

Program Code: E.MFG.AAS.IMA

### Associate in Applied Science (A.A.S.)

Graduation requirement — 60 semester hours

The Industrial Technology program prepares students for careers in manufacturing. Students learn science, math, technology, and communications in real-life settings.

#### **Program Notes\***

- Prior to enrolling in MFT 151, students must complete a minimum of 12 hours of curriculum and MFT 131 or approval of the department chair or program director.
- General education electives include mathematics and at least one elective from the following categories: communications, social/behavioral sciences, humanities/fine arts, physical/life sciences.
- Students considering transferring to earn a bachelor's degree are advised to take ENG 101 and MAT 124. Discuss this with your academic success advisor before selecting a math or English course.
- ENG 102 has a prerequisite of ENG 101.
- MFX substitutions are accepted for MFT 110 and MFT 113.
   MFT 110 = MFX 170 + MFX 171 + MFX 172 + MFX 173
   MFT 113 = MFX 130 + MFX 131 + MFX 150 + MFX 151
- WLX substitutions are accepted for WLD 111.
   WLD 111 = WLX 112 + WLX 113 + WLX 114 + WLX 115

## **Suggested Full-time Sequence**

FALL 1st Semester MFT 130 MFT 131 CAD 114 MAT 131	SPRING 2nd Semester MFT 137 CAD 113 ENG 101 or ENG 111	SUMMER 3rd Semester MFT 151
MAT 131 WLD 111	or ENG 111 Gen Ed elec	

FALL	SPRING
4th Semester	5th Semester
MFT 110	MFT 113
ENG 102 or COM 103	MFT 139
or COM 200	ELT 150

Technical elective Technical elective
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Gen Ed elec

Requirea P	rogram Courses (34 nours)		
MFT 110	Mechanical Assemblies		
MFT 113	Introduction to Hydraulics and Pneuma		
MFT 130	Basic Machine Processes		
MFT 137	Introduction to CNC Programming $\dots$		
MFT 139	Quality Assurance		.3
MFT 131	Introduction to Manufacturing and Industrial Safety		.3
MFT 151*	Manufacturing Work Experience I		.2
CAD 113	Computer-Aided Machine Design I		4
CAD 114	Introduction to AutoCAD		Ċ
	(Computer-Aided Drafting)		.2
ELT 150	Introduction to Electricity and Electron		
WLD 111	Introduction to Welding		4
Tochnical E	Electives (10 hours)		
	Beginning Computers		.3 .3 .3 .3
MFT 117	Pumps, Compressors, and Vacuum Syst		
Required G	ieneral Education Courses (16 hou	ırs)	
ENG 101 or ENG 111 ENG 102 or COM 103 or COM 200 MAT 131	Composition I Workplace Writing Composition II Introduction to Public Speaking Leadership and Small Group Communica Applied Mathematics	ition	.3
	College Algebra		
Total Semest	er Credit Hours	6	50

Required Program Courses (24 hours)

Cr. Hrs.