# INDUSTRIAL TECHNOLOGY: MACHINE TOOLS

#### **INDUSTRIAL TECHNOLOGY: MACHINE TOOLS A.A.S.**

Program Code: E.MFG.AAS.MCT

#### 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.
- ENG 102 has a prerequisite of ENG 101.
- 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.
- 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	SPRING	SUMMER
1st Semester	2nd Semester	3rd Semester
MFT 130	MFT 137	MFT 151
MFT 131	CAD 113	
CAD 114	ENG 101	
MAT 131	or ENG 111	
WLD 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
Technical elective Technical elective
Gen Ed elec

Required P	rogram Courses (34 hours)	Cr. Hrs.
MFT 110	Mechanical Assemblies	3
MFT 113	Introduction to Hydraulics and Pneum	
MFT 130	Basic Machine Processes	3
MFT 137	Introduction to CNC Programming	4
MFT 139	Quality Assurance	3
MFT 131	Introduction to Manufacturing and	
	Industrial Safety	3
MFT 151*	Manufacturing Work Experience I	
CAD 113	Computer-Aided Machine Design I	4
CAD 114	Introduction to AutoCAD	
	(Computer-Aided Drafting)	
ELT 150	Introduction to Electricity and Electro	
WLD 111	Introduction to Welding	4
Technical E	Electives (10 hours)	
Choose ten l	nours from the following:	
CAD 119	Computer-Aided Machine Design II	4
DRT 119	Blueprint Reading and Technical Draw	ing 3
MFT 132	Intermediate Machine Processes	
MFT 138	Intermediate CNC Programming —Mil	ling 4
MFT 211	Advanced Machining Processes and	
	Inspection Practices	
MFT 238	Advanced CNC Programming	4
Required G	eneral Education Courses (16 ho	urs)
ENG 101	Composition I	
or ENG 111		3
ENG 102*	Composition II	
	Introduction to Public Speaking	
	Leadership and Small Group Communic	ation3
MAT 131	1 1	
Or MAI 124	College Algebra	4
General Educ	cation electives*	
Total Semest	er Credit Hours	60