

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.

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 or COM 200	MFT 139
Technical elective	ELT 150
Technical elective	Technical elective
	Technical elective
	Gen Ed elec

Required Program Courses (34 hours)

Cr. Hrs.

MFT 110	Mechanical Assemblies.	3
MFT 113	Introduction to Hydraulics and Pneumatics.	3
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.	2
CAD 113	Computer-Aided Machine Design I.	4
CAD 114	Introduction to AutoCAD (Computer-Aided Drafting).	2
ELT 150	Introduction to Electricity and Electronics.	3
WLD 111	Introduction to Welding.	4

Technical Electives (10 hours)

Choose ten hours from the following:

CAD 119	Computer-Aided Machine Design II.	4
DRT 119	Blueprint Reading and Technical Drawing.	3
MFT 132	Intermediate Machine Processes.	3
MFT 138	Intermediate CNC Programming —Milling.	4
MFT 211	Advanced Machining Processes and Inspection Practices.	4
MFT 238	Advanced CNC Programming.	4

Required General Education Courses (16 hours)

ENG 101	Composition I	3
or ENG 111	Workplace Writing.	3
ENG 102*	Composition II	3
	or COM 103 Introduction to Public Speaking	
	or COM 200 Leadership and Small Group Communication.	3
MAT 131	Applied Mathematics	4
	or MAT 124 College Algebra.	4
	General Education electives*.	6

Total Semester Credit Hours 60