

MANUFACTURING TECHNOLOGY

Associate in Applied Science A.A.S.: Option 3: Advanced Manufacturing Technology Degree - Precision Machining

This 60 credit-hour Advanced Manufacturing Technology degree is designed to prepare students for the modern manufacturing environment. This program will prepare students for employment with companies that have implemented team-oriented design, production, quality and maintenance systems within the manufacturing environment. American manufacturers are increasingly using high-tech equipment that involves multiple integrated systems. It is critical that these companies be able to recruit and employ individuals who know how to operate, troubleshoot and maintain this high-tech equipment.

*This sequenced degree plan is one of four options that students may pursue to earn the Advanced Manufacturing Technology Associate in Applied Science (AAS) degree. While there are multiple specializations, **this particular degree can be awarded only once.***

FIRST SEMESTER:

Number	Course Title	Credits	Course Category
MFT 102	Introduction to Manufacturing and Safety	4	Program Requirement
MFT 105	Machining Processes I	3	Program Requirement
MFT 132	Dimensional Metrology	3	Program Requirement
MFT 134	Print Reading for Industry	3	Program Requirement
MTH 097	Basic Technical Mathematics ¹	3	AAS General Education

SECOND SEMESTER:

Number	Course Title	Credits	Course Category
ENG 101	Composition	3	AAS General Education
MFT 120	Machining Processes II	3	Program Requirement
MFT 121	Machining Processes III	3	Program Requirement
MFT 140	Quality Assurance	3	Program Requirement
	Technical elective ²	3	Program Requirement

THIRD SEMESTER:

Number	Course Title	Credits	Course Category
	AAS General Education elective ⁺	3	AAS General Education
MFT 123	Introduction to CNC Machining	4	Program Requirement
MFT 125	CNC Lathe Operation and Programming	4	Program Requirement
MFT 210	Computer Integrated Manufacturing	3	Program Requirement

FOURTH SEMESTER:

Number	Course Title	Credits	Course Category
	AAS General Education electives ⁺	6	AAS General Education
MFT 128	CNC Mill Operation and Programming	4	Program Requirement
MFT 220	Computer Aided Manufacturing	3	Program Requirement
	Technical elective ²	2	Program Requirement

¹ Students may take MTH 097, MTH 101, MTH 103, or higher.

² Select courses not listed as required that have one of the following prefixes: ELT, MFT, MNT, SCM, or WLD

+ At least one of the AAS General Education electives must meet the World Cultures and Diversity graduation requirement. See full list of [AAS General Education Electives](#).