

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 I	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](#).