ASSOCIATE IN APPLIED SCIENCE

Mechanical Technology:
Machine Tool Concentration

curriculum code: 0595 | HEGIS code: 5315

minimum credit hours required: 63

This degree program is for students desiring employment in the field of manufacturing technology. Graduates may qualify for positions such as machine tool or CNC operator, CNC Programmer, industrial laboratory technician; inspector, production technician, CAD operator; and other related positions. **Program completion will require students to attend some classes on the Jamestown Campus.**

REQUIRED COURSES	CR	JCC	SUNY	LAS
INT 1555: Inquire	2	Inquiry- Critical & Integrative Reasoning		X
ENG 1510: English Composition I	3	College Composition	HUMN	H
ENG 1530: English Composition II	3	College Comp & Oral Communication	COMW & COMO	H
MAT 1590: College Algebra/Trigonometry	4	SUNY Mathematics & Quantitative Reasoning	MATH	N
PHY 1500: Foundational Physics	4	SUNY Natural Science & Scientific Reasoning	NSCI	N
Social Sciences Elective - SUNY Gen Ed	3	SUNY Social Science	SOSC	S
MCT 2420: Manufacturing Process I	3	Applied Learning		
MCT 1240: Engineering Drawing with AutoCAD	4			
MCT 1270: Machine Theory and Operations	3			
MCT 1280: Computer Numerical Control of Machine Tools	3			
MCT 1300: Machine Tool Technology II	3			
MCT 1310: Industrial Safety & Quality Practices	2			
MCT 1320: Production Processes & Maintenance Awareness	2			
MCT 1340: Manufacturing Drawing & GD&T	4			
MCT 1380: Introduction to Solid Modeling	3			
MCT 2280: Advanced CNC Programming	3			
MCT 2300: Machine Tool Technology III	3			
MCT 2340: Dimensional Metrology	2			
MCT 2410: Computer Aided Manufacturing	3			
WLD 2370: Metallurgy	3			
Open Electives up to 3 credits may need to be SUNY Gen ed- category specific and may need to fill JCC Essentials Global Perspective, Cultural Understanding, and Diversity requirements.	3	(Cultural Understanding; Global Perspectives, Diversity)	(DIVE) [up to 3 credits]	[1 credit]
TOTAL CREDITS: 60			20	20

IMPORTANT POINTS:
- To complete the program in two years, students must begin in a fall semester at the appropriate levels of math. MAT 1590 has a prerequisite of MAT 0550 or placement. With the appropriate mathematical background, students may elect to take MAT 1600 and/or MAT 1710
- Students with the appropriate background may opt to take PHY 1610 or PHY 1710 to fulfill the PHY 1250 requirement.