



Mechanical Technology:

Design Concentration

curriculum code: 0595 | HEGIS code: 5315

minimum credit hours required: 60

This degree program is for students desiring employment in the field of mechanical or industrial engineering technology. Graduates may qualify for positions such as machine, tool, and product designer; industrial laboratory technician; inspector; production control technician; sales, field, or safety technician; CAD operator; and other related positions. Graduates also have the option of transferring to four-year institutions offering a bachelor's degree in mechanical engineering technology. **Program completion will require students to attend some classes on the Jamestown Campus.**

REQUIRED COURSES	CR	JCC	SUNY	LAS
INT 1555: Inquire & MCT 1250: Statics for Technology or ENR 1560: Introduction to Engineering & Engineering Design * **	4-5	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		
CSC 1570: Programming Concepts/ Applications	3			
MAT 1600: Precalculus	4		MATH	N
MCT 1240: Engineering Drawing with AutoCAD	4			
MCT 1270: Machine Theory and Operations	3			
MCT 1340: Manufacturing Drawings or CSC 1510: Introduction to Computer Sci or CSC 1560: Computer Application Software I	3-4			
MCT 1380: Introduction to Solid Modeling	3			
MCT 2230: Mechanics of Materials or MCT 1310: Industrial Safety & Quality and MCT 1320: Production Processes and Main	4			
MCT 2270: Mechanics of Energy Systems	4			
MCT 2340: Dimensional Metrology	2			
MCT 2380: Advanced Solid Modeling	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)	
TOTAL CREDITS: 60			21	23

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 MAT 1710 in place of the MAT 1590/1600 requirements.
- Students should consult with an advisor on which course choice is most appropriate for their educational and/or career goals.
- ** ENR 1560: Introduction to Engineering & Engineering Design incorporates the student learning outcomes of INT 1555: Inquire.