

Program of Study Sequence

Community College Kishwaukee College

High School Sycamore High School

Program of Study: Tool and Die Maker/Technologist

CIP Code 48 - 0507

Cluster Manufacturing

Pathway Production

Educational Level	Grade	CTE/Degree Major Courses	English	Mathematics	Science	Social Science	Other required Courses/Recommended Electives	Work-Based Learning Opportunities
SECONDARY	9	Technical Drafting I-A	English I	Algebra I	Physical Science	World Cultures	Foreign Language Business Ed	
	10	Technical Drafting II; Metals IM	English II) and Speech	Geometry	Biology	Economics		
	11	Computer Aided Drafting; Manufacturing Engineering Technology Academy 1 (2)--KC dual credit for MT 101, MT 151, MT 215	English III	Trig/College	Physics	American History 1	Foreign Language Consumer Ed Related Electives. Skills USA (KEC)	
	12	Consumer Economics; Metals IW; Manufacturing Engineering Technology Academy 2 (2)--KC Dual Credit for MT 103, MT 152, MT 216	Senior Comp and Senior Lit	Business Math	Courses Required for Graduation	Government		
POSTSECONDARY	13	MT 101 Print Reading for Industry (2); MT 215 Manufacturing Processes I (2); MT 290 Intro to CNC (4); CAD 111 Technical Drafting (3); MT 261 Manufacturing Processes II (4); MT 264 Fixture Design (4); MT 292 CNC (3)	SPE 100 Fundamentals of Speech	MT 151 Machine Shop Math I and MT 152 Machine Shop Math II			Bus 101 Intro to business Skills USA	MT 280 Orientation to Internship MT 283 MT Internship
	14 (Fall)	MT 294 Adv. CNC (4); MT 216 Fabrication Practices (2); MT 296 Computer-Aided Manufacturing (3); CAD, MT, WT, electives (11)	ENG 109 Tech Report Writing or ENG 103 Composition both required by NIU	Required by NIU: MAT 155 Trig	Science Elective; Required by NIU: CHE 110; CHE 111	Gen Ed Elective; Required by NIU: 3 Humanities electives; 1 Soc Sci elective; 1 interdisciplinary elective	Required by NIU: CAD 151; ELE 101; ACC 121	
	15 (Fall)	Continued Classes in Chosen Program of Study	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree	ECO 100 Consumer Economics or ECO 260 Principles of Macroeconomics	Career Opportunities ► Machine Operator ► Medical Appliance Maker ► Micro and Nano Fabrication Technicians ► Milling Machine Setter and Set-Up Operator ► Millwright ► Pattern and Model Maker ► Precision Layout Worker ► Sheet Metal Worker ► Solderer and Brazier ► Tool and Die Maker ► Welder	
	15 (Spring)	Continued Classes in Chosen Program of Study	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree		
	16 (Fall)	Continued Classes in Chosen Program of Study	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree		
	16 (Spring)	Continued Classes in Chosen Program of Study	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree	Classes and Electives Required for bachelors degree		

Kishwaukee Educational Consortium Dual Credit Classes