

Precision Machining A.A.S.

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NOTICE(s): For the A.A.S. Degree in Precision Machining, the student must complete a minimum of 74 credit hours—a minimum of 59 in technical courses and a minimum of 15 in general education courses—all of which must be approved by the advisor. A maximum of 9 credit hours of technical electives may be selected from any approved area of Engineering Technology programs with prior written approval from the student's major advisor. Admission Requirement: High school diploma or GED.

The courses in this program of study may not be offered every semester. It is important to consult with your advisor to determine course schedules to stay on track to graduate.

The student is responsible for verifying the transferability of credit in this program to a senior institution with the appropriate senior institution advisor.

Area I – Written Composition

Item #	Title	Hours	Grade	Term Completed
ENG 101	English Composition I	3		
	Sub-Total Credits	3		

Area II – Humanities and Fine Arts

Item #	Title	Hours	Grade	Term Completed
	Humanities/Fine Arts Elective	3		
	Sub-Total Credits	3		

Area III – Natural Sciences and Mathematics

Item #	Title	Hours	Grade	Term Completed
INT 104	Principles of Technology	3		
	MTH 100: Intermediate College Algebra OR numerically higher	3		
	Sub-Total Credits	6		

Area IV – History, Social and Behavioral Sciences

Item #	Title	Hours	Grade	Term Completed
	History, Social and Behavioral Sciences Elective	3		
	Sub-Total Credits	3		

Area V - Required Technical Courses

Item #	Title	Hours	Grade	Term Completed
	MDT 100 OR MTT 121	3		
	MTT 107 or EET 100	3		
MTT 127	Metrology	3		
MTT 128	Geometric Dimensioning and Tolerancing I	3		
MTT 139	Basic Computer Numerical Control	3		
MTT 147	Introduction to Machine Shop I	3		
MTT 148	Introduction to Machine Shop I Lab	3		
MTT 149	Introduction to Machine Shop II	3		
MTT 150	Introduction to Machine Shop II Lab	3		
ORI 101	Orientation to College	1		
WKO 101	Workplace Skills Development I	1		
	Sub-Total Credits	29		

Additional Coursework:

Choose 30 credit hours from the following list.

Item #	Title	Hours	Grade	Term Completed
CIS 146	Computer Applications	3		
MDT 105	Introduction to Computer-Aided Design (CAD)	3		
MDT 202	SOLIDWORKS CADD	3		
MDT 221	Machine Design	3		
MDT 252	Advanced Solidworks CADD	3		
MTT 108	Machine Handbook Functions I	3		
MTT 109	Orientation to Computer Assisted Manufacturing	3		
MTT 123	Engine Lathe Lab I	3		
MTT 124	Engine Lathe Lab II	3		
MTT 134	Lathe Operations I	3		
MTT 137	Milling I	3		
MTT 138	Milling I Lab	3		
MTT 140	Basic Computer Numerical Control Turning Programming I	3		
MTT 141	Basic Computer Numeric Control Milling Programming I	3		
MTT 154	Metallurgy	3		
MTT 162	Precision Grinding	3		
MTT 181	Special Topics in Machine Tool Technology	3		
MTT 202	Machine Maintenance and Repair	3		
MTT 219	Computer Numerical Control Graphics: Turning	3		
MTT 220	Computer Numerical Control Graphics: Milling	3		
MTT 221	Advanced Blueprint Reading for Machinists	3		
MTT 241	CNC Milling Lab I	3		
MTT 242	CNC Milling Lab II	3		
MTT 243	CNC Turning Lab I	3		
MTT 244	CNC Turning Lab II	3		
MTT 270	Machining Skills Application	3		
MTT 281	Special Topics in Machine Tool Technology	3		
MTT 286A	Co-Op	1		
MTT 286B	Co-Op	1		
MTT 286C	Co-Op	1		
MTT 288	Co-Op	2		
MTT 291	Cooperative Education in Machine Tool	3		

	Technology	
MTT 292	Cooperative Education in Machine Tool Technology	3
SPH 106	Fundamentals of Oral Communication	3
	Sub-Total Credits	95
		74