

Precision Machining A.A.S.

Advisors - Ayers Campus: Peyton Amberson, Precision Machining Building (256.835.5417)
pamberson@gadsdenstate.edu

East Broad Campus: Daniel Anderson, Machine Technology Building (256.549.8644) danderson@gadsdenstate.edu;

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 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