

Sample MTT Stackable Certificate-Degree/Credential Program

Machine Tool Technology Option

The Machine Tool Technology program is industry-driven and focused on preparing graduates for the workforce. Certifications are embedded into the curriculum so that students will earn industry certifications and certificates as they progress in the program. The required co-op in the final term provides real world experience so that students graduate with the skills they need to perform.

Program Requirements

	Course #	Course Name	Sem. Hours
Semester 1	MTT 108	Machine Handbook Functions I	3
	INT 153	Introduction to Precision Machining	3
	INT 119	Principles of Mechanical Measurement and Technical Drawing	3
	CIS 146	Microcomputer Applications	3
		Eligible For Short Term Certificate – MTT Basic	
		Hours for the Semester	12 Hours
Semester 2	MTT 140	Basic Computer Numerical Control Turning Programming I	3
	MTT 243	CNC Turning Lab I	3
	MTH 100	MTH 100 or numerically higher	3
	INT 117	Principles of Industrial Mechanics	3
		Eligible For Short Term Certificate – MTT CNC	
		Hours for the Semester	12 Hours
Semester 3	MTT 212	Advanced Computer Numerical Control Turning	3
	MTT 244	CNC Turning Lab II	3
	ENG 101	English Composition I	3
	Area IV	Social and Behavioral Science elective	3
		Hours for the Semester	12 Hours
Semester 4	MTT 141	Basic Computer Numeric Control Milling Programming I	3
	MTT 241	CNC Milling Lab I	3
	Area III	Math, Science or Computer Science elective	3
	SPH 107	Fundamentals of Public Speaking	3
	WKO 106	Workplace Essentials (<i>Alabama Career Readiness Certificate</i>) (<i>OSHA 10 Hour Card</i>)	3
			Eligible for Certificate in Industrial Systems Technology - MTT
		Hours for the Semester	15 Hours
Semester 5	MTT 213	Advanced Computer Numerical Control Milling	3
	MTT 242	CNC Milling Lab II	3
	MTT 291	Cooperative Education in Machine Tool Technology	3
	Area II	Humanities & Fine Arts Elective	3
		Eligible for AAS in Industrial Systems Technology - MTT	
		Hours for the Semester	12 Hours
		Total Hours Required for Degree	63