

**Associate in Applied Science
General Technology
Machine Tool Technology (AAS.GT.GTMTT 35318)**

**Total Credit Hours: 64
Effective: Fall 2017**

Graduation Plan

	Credit Hours	Pre-requisites & Co-requisites	Done
A. General Education			
ECO 101 Basic Economics	3	ENG 032 or equivalent	<input type="checkbox"/>
*ENG 155 Communications I	3	ENG 032 – Minimum grade of C or equivalent; RDG 100 – Minimum grade of C or equivalent	<input type="checkbox"/>
HSS 205 Technology and Society	3	ENG 032 or equivalent	<input type="checkbox"/>
*MAT 155 Contemporary Mathematics	3	MAT 032 or equivalent – Minimum grade of C	<input type="checkbox"/>
PSY 105 Personal/Interpersonal Psychology	3	Co-requisite: ENG 032 or equivalent	<input type="checkbox"/>
TOTAL	15		
B. Required Core Subject Areas			
(1) Primary Technical Specialty			
*MTT 111 Machine Tool Theory & Practice	5		<input type="checkbox"/>
*MTT 112 Machine Tool Theory & Practice II	5	MTT 111	
*MTT 141 Metals and Heat Treatment	3		<input type="checkbox"/>
*MTT 147 Tool and Cutter Grinding	2		<input type="checkbox"/>
*MTT 215 Tool Room Machining I	4	MTT 112	<input type="checkbox"/>
*MTT 254 CNC Programming I	3	MTT 124 and RDG 031 or equivalent	<input type="checkbox"/>
*MTT 255 CNC Programming II	3	MTT 254	<input type="checkbox"/>
TOTAL	25		
(2) Secondary Technical Specialty – take 12 credit hours			
*EGR 170 Engineering Materials	3	RDG 100 or equivalent	<input type="checkbox"/>
*EGR 175 Manufacturing Processes	3	RDG 100 or equivalent and ENG 032 - Minimum grade of C or equivalent	<input type="checkbox"/>
*EGR 270 Introduction to Engineering	3	ENG 032 or equivalent and RDG 101 or equivalent	<input type="checkbox"/>
*EGR 275 Introduction to Engineering/Computer Graphics	3		<input type="checkbox"/>
*EGT 110 Engineering Graphics I	4	RDG 100 or equivalent; Co-requisite: MAT 101	<input type="checkbox"/>
*EGT 115 Engineering Graphics II	4	EGT 110 - Minimum grade of C or equivalent	<input type="checkbox"/>
*EGT 210 Engineering Graphics III	4	EGT 115 or equivalent - Minimum grade of C or equivalent	<input type="checkbox"/>
*EGT 252 Advanced CAD	4	EGT 115 or equivalent - Minimum grade of C	<input type="checkbox"/>

* Courses in this program that require a minimum grade of "C."

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*IMT 102 Industrial Safety	2	RDG 031 or equivalent; MAT 032 or equivalent	<input type="checkbox"/>
*IMT 104 Schematics	2		<input type="checkbox"/>
*IMT 114 Benchwork and Assembly	2	RDG 031 or equivalent; MAT 032 or equivalent	<input type="checkbox"/>
*IMT 120 Mechanical Installations	5	RDG 031 or equivalent; MAT 032 or equivalent	<input type="checkbox"/>
*IMT 131 Hydraulics and Pneumatics	4	RDG 031 or equivalent; MAT 032 or equivalent	<input type="checkbox"/>
*IMT 151 Piping Systems	3	RDG 031 or equivalent; MAT 032 or equivalent	<input type="checkbox"/>
*IMT 161 Mechanical Power Applications	4	RDG 031 or equivalent; MAT 032 or equivalent	<input type="checkbox"/>
*WLD 104 Gas Welding & Cutting	2	RDG 031 or equivalent	<input type="checkbox"/>
*WLD 111 Arc Welding I	4	RDG 031 or equivalent	<input type="checkbox"/>
*WLD 113 Arc Welding II	4	RDG 031 or equivalent and WLD 111	<input type="checkbox"/>
*WLD 136 Advanced Inert Gas Welding	2	RDG 031 or equivalent	<input type="checkbox"/>
*WLD 142 Maintenance Welding	3	RDG 031 or equivalent; MAT 032 or equivalent	<input type="checkbox"/>
*WLD 152 Tungsten Arc Welding	4	RDG 031 or equivalent	<input type="checkbox"/>
TOTAL	12		

C. Other Hours Required for Graduation	Credit Hours	Pre-requisites & Co-requisites	Done
*COL 101 College Orientation	1		<input type="checkbox"/>
AND (Take 12 Hours from the following courses)			<input type="checkbox"/>
*EGT 128 Machine Tool Print Layout	2	RDG 031 or equivalent	<input type="checkbox"/>
*EGT 130 Geometric Dimensioning & Tolerancing Applications	3	RDG 031 or equivalent, EGT 128	<input type="checkbox"/>
*EGT 151 Intro to CAD	3	EGT 128	<input type="checkbox"/>
*EGT 212 Machine Tool Print Topics	2	EGT 128	<input type="checkbox"/>
*MTT 216 Tool Room Machining II	4	MTT 124 and MTT 126	<input type="checkbox"/>
*MTT 231 Tool and Die Making I	5	ENG 155, MTT 215, MTT 216 and MAT 155	<input type="checkbox"/>
*MTT 232 Tool and Die Making II	5	MTT 231	<input type="checkbox"/>
*MTT 241 Jigs and Fixtures I	2	MTT 215 and MTT 216	<input type="checkbox"/>
*MTT 242 Jigs and Fixtures II	2	MTT 241	<input type="checkbox"/>
*MTT 253 CNC Programming & Operations	3	MTT 254 and MTT 255	<input type="checkbox"/>

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*MTT 258 Machine Tool CAM	3	EGT 145, MAT 155, MTT 111	
*MTT 270 CMM Programming & Operations	3	EGT 130, EGT 151, MAT 155, MTT 111	
TOTAL	13		

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