

## ADVANCED MANUFACTURING TECHNOLOGY A.A.S. – 20615

Course	Requirement Field	Credits	Notes
<b>Fall - 1st Semester</b>			
AMT 101 Fundamentals of Machining	Curriculum Requirement	2	Fall only
AMT 102 Materials for Industry	Curriculum Requirement	3	Fall only
AMT 110 Introduction to Fab Lab Technology	Curriculum Requirement	2	Prerequisite for AMT 111. Fall and Spring
DRF 154 Introduction to AutoCAD	Curriculum Requirement	2 to 3	Fall and Spring 2 cr. only at night
TEC 112 Basic Hydraulics and Pneumatics	Curriculum Requirement	2	Fall only
TEC 133 Safety Practices for Industry	Curriculum Requirement	1	Fall only. Will be taught four Fridays
WLD 101 Welding	Curriculum Related	3	
Elective Requirement	Elective	3	Suggested to take electives from the curriculum related courses.
<b>Total Hours</b>		<b>18-19</b>	

NOTE: Any developmental courses (such as ENG 100) must be taken in addition to the above during this semester as prerequisites for later courses.

Course	Requirement Field	Credits	Notes
<b>Spring - 2nd Semester</b>			
AMT 104 Machining and Fabrication	Curriculum Requirement	3	Spring only
AMT 111 Fab Lab Workshop I	Curriculum Requirement	1 to 3	Fall or Spring Prerequisite: AMT 110 or instructor approval
DRF 150 Dimensioning and Tolerancing	Curriculum Requirement	2	Spring only
DRF 220 Parametric Solid Modeling	Curriculum Requirement	3	Spring only
ENG 101 Written Communication I or higher	General Education Requirement	3	Must do EAC assessment test prior to enrolling
WLD 260 Flux Cored Arc and Gas Metal Arc Welding	Curriculum Related	3	Spring only
<b>Total Hours</b>		<b>15-17</b>	

Course	Requirement Field	Credits	Notes
<b>Fall - 3rd Semester</b>			
AMT 211 Fab Lab Workshop II	Curriculum Related	1 to 3	Fall and Spring. Prerequisite AMT 111, DRF 150 or DRF 220
DRF 160 Descriptive Geometry	Curriculum Requirement	3	Fall only. Prerequisite: DRF 154 or concurrent enrollment in DRF 154
MAT 100 Applied Mathematics OR BUS 111 or higher	General Education Requirement	3 to 5	
WLD 108 Welding and Metal Fabrication	Curriculum Requirement	3	Fall only
General Education	General Education Requirement	4 to 6	
<b>Total Hours</b>		<b>14-20</b>	

Course	Requirement Field	Credits	Notes
<b>Spring - 4th Semester</b>			
AMT 220 Advanced Manufacturing Methods	Curriculum Requirement	4	Spring only Prerequisite: AMT 104 or instructor approval
Elective Requirement	Elective	3	See Elective Requirements for degree
General Education	General Education	7 to 11	
<b>Total Hours</b>		<b>14-18</b>	

<b>Total Hours</b>	64
Total Curriculum Requirements	31-34
Total Curriculum Related	6-9
Total General Education	18
Total Elective	6

**Notes:** If a student enters the program in the spring, or transfers credit in, the above would have to be modified.