

# ADVANCED MANUFACTURING AND DESIGN TECHNICIAN CERTIFICATE 30639

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 108 Welding and Metal Fabrication	Curriculum Requirement	3	You may take WLD 101. WLD 108 is required for the AMT AAS degree.
<b>Total Hours</b>		<b>15-16</b>	

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 and Spring
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	Curriculum Requirement	3 to 5	Must do EAC assessment test prior to enrolling
<b>OR</b> MAT 100 <b>OR</b> BUS 111 or higher			
WLD 260 Flux Cored Arc and Gas Metal Arc Welding	Curriculum Requirement	3 to 4	WLD 260 OR WLD 270 OR DRF 271 OR WLD 211 OR AMT 220
<b>Total Hours</b>		<b>15-20</b>	

NOTE: Any developmental courses (such as ENG 100 and MAT 090) must be taken in addition to the above during this semester as prerequisites for later courses.

<b>Total Minimum Hours</b>	30
Total Curriculum Requirements	30-36

**Notes: All courses must be completed with a grade of "C" or better--Be sure to check the catalog for other changes and requirements.**