

Planning to achieve an AAS in Manufacturing Technology degree at the MATC

To achieve an AAS in Manufacturing Technology requires 99 credits (Effective 2011 Catalog). To do this in 2 years is certainly a challenge, but it can be achieved. Simple math tells us that if we have 6 terms (Not counting summers) to divide the 99 credits by, one must take an average of 16.5 credits per term. This document provides a suggested course sequence, listed term-by-term to illustrate how this is possible. Use this document as a general planning tool as you build your individual plan. Transitional math courses (MTH 10,20,60) do not count towards degree requirements and must be added to the 99 credit count.

Now realistically, you may face challenges to making this sequence happen in only 6 terms. You may have extra math classes to take, financial constraints, job and family obligations or you just don't feel comfortable taking that high a class load per term. By slipping courses from one term to another you can reduce your term-by-term workload. There's nothing wrong with that except that it means you will need to plan on spending more time (and possibly money) earning your degree. That is the tradeoff you must make.

Keep in mind when planning, you should always consult with your financial aid advisor to determine if there are any restrictions or other issues related to your credit loads per term or total time to get your degree.

The suggested sequence assumes a Fall Term start. If you start in Winter or Spring terms, your sequence will still generally be the same. However you may have to make some adjustments in your plan based on where the summer term falls in your plan and when some of the non-MATC courses that may not be available every term are offered.

To lessen the term-by-term class load, you may wish to take some classes over the summer. We suggest taking non-MATC courses in the summer as your first choice as they are generally easier to get into during summer terms with fewer wait lists. If you need transitional math courses (MTH 10,20,60) that do not count towards degree requirements, the Summer Term gives you the chance to catch up and stay on your plan.

NOTE- SUMMER SESSIONS AT MATC OPERATE ON REDUCED HOURS! – WE STRONGLY RECOMMEND STUDENTS TO TAKE MORE THAN 6 CREDITS OF MATC CLASSES DURING SUMMER TERM.

Finally, as you plan your MATC Electives, please be sure to review the course lists for the various MATC certificates. By careful selection of electives you may be able to earn two or more certificates on the way to your AAS degree. Discuss this with your MATC Advisor.

Suggested Course Sequence plan for Manufacturing Technology AAS

99 Total Credits Required

Term 1

Class Number	Description	Credits
MFG 100	MATC Orientation	1
MFG 101	Blueprint Reading	2
MFG 103	Weld Technology I	3
MFG 110	Manufacturing Processes I	3
MTH Class	Math Class- MTH 010,020,060 or 085 (depending on placement scores and class availability)	4
CIS 070	Introduction to Computers: Windows	2

Total 15

Term 2

Class Number	Description	Credits
MFG 105	Weld Technology II	3
MFG 112	Manufacturing Processes II	3
MFG 109	Lean Practices	2
MFG 115	Design Processes I	2
MFG 116	Manufacturing Electrical Systems	2
WR 60 ¹	Rhetoric and Critical Thinking	4

Total 16

Term 3

Class Number	Description	Credits
MFG 107	Weld Technology III	3
MFG 114	Manufacturing Processes III	3
MFG 118	Fluid Power Systems	2
MFG 133	Quality Assurance	3
MFG 160	Materials Engineering	2
SP218, BA285 or PSY 207 ^{1, 2}	Business Human Relations OR Interpersonal Communications OR Applied Psychology	3
SP 252	Team Skills	1

Total 17

¹ If MTH 085 not achieved, substitute next transitional Math Class

² If transitional Math classes are substituted, suggest taking, WR60, and Human Relations required course (SP218, BA285 or PSY 207) during Summer Term to keep on schedule

Term 4

Class Number	Description	Credits
MFG Class	<p align="center">MATC Electives 38 credits are required for graduation Most are 2 credits each</p>	13
MFG Class		
MFG Class		
MFG Class		
MFG Class		
MFG Class		
CIS 120	Computer Concepts	4
Total		17

Term 5

Class Number	Description	Credits
MFG Class	<p align="center">MATC Electives 38 credits are required for graduation Most are 2 credits each</p>	13
MFG Class		
MFG Class		
MFG Class		
MFG Class		
SP 219	Small Group Communications	3
Total		16

Term 6

Class Number	Description	Credits
MFG Class	<p align="center">MATC Electives 38 credits are required for graduation Most are 2 credits each</p>	12
MFG Class		
MFG Class		
MFG Class		
MFG Class		
HHP 252A	Fitness / First Aid	3
MFG 280	CWE Manufacturing ³	3
Total		18

Grand Total 99 credits

³ If you have previous manufacturing experience, please discuss this with your advisor. You may be eligible to substitute 3 credits of MATC elective credits in place of MFG 280.