



2006 – 07 PETITION/PROGRAM SHEET
Degree: Technical Certificate
Major: Manufacturing Technology
Emphasis: Machine and Manufacturing Trades
www.mesastate.edu/wccc/manf.htm

About This Certificate . . .

This program offers classroom instruction and related lab work with hands-on activities in the use of tools and the operation of equipment found in manufacturing. Students will work in the area of blueprint reading, computer numerical control (CNC) machining, general machining and maintenance, computer-aided drafting (CAD), and related mathematics. This course is designed to meet competency-based standards set by the industry. Attitude and quality of workmanship is stressed.

POLICIES:

1. It is your responsibility to determine whether you have met the requirements for your degree. Please see the MSC Catalog for a complete list of graduation requirements.
2. You must turn in your "Intent to Graduate" form to the Registrar's Office **by September 15 if you plan to graduate the following May, and by February 15 if you plan to graduate the following December.**
3. This program sheet must be submitted with your graduation planning sheet to your advisor during the **semester prior to the semester of graduation, no later than October 1 for spring graduates, no later than March 1 for fall graduates.**
4. Your advisor will sign and forward the Program Sheet and Graduation Planning Sheet to the WCCC Director of Instruction for signature.
5. Finally, the WCCC Director of Instruction or the department administrative assistant will take the signed forms to the Registrar's Office. (Students cannot handle the forms once the advisor signs.)
6. If your petition for graduation is denied, it will be your responsibility to reapply for graduation in a subsequent semester. Your "Intent to Graduate" does not automatically move to a later graduation date.
7. NOTE: The semester before graduation, you may be required to take a Major Field Achievement Test (exit exam).

NAME: _____ **STUDENT ID #** _____

LOCAL ADDRESS AND PHONE NUMBER: _____
 _____ () _____

I, (Signature) _____, hereby certify that I have completed (or will complete) all the courses listed on the Program Sheet. I further certify that the grade listed for those courses is the final course grade received except for the courses in which I am currently enrolled and the courses which I complete next semester. I have indicated the semester in which I will complete these courses.

 Signature of Advisor _____ 20_____
 Date

 Signature of WCCC Director of Instruction _____ 20_____
 Date

 Signature of Registrar _____ 20_____
 Date

- A cumulative grade point average of 2.0 or higher must be maintained for all courses taken and a “C” or better must be achieved in each course which comprises the area of emphasis or specialization for MAMT.
- It is recommended that students work closely with a faculty advisor when selecting appropriate courses and scheduling classes.

Technical Certificate: Manufacturing Technology – Machine and Manufacturing Trades (36 Semester Hours)

<u>Course</u>	<u>No.</u>	<u>Credit</u>	<u>Grade</u>	<u>Term</u>	<u>Year</u>	<u>Trns/Subs</u>	<u>Course</u>	<u>No.</u>	<u>Credit</u>	<u>Grade</u>	<u>Term</u>	<u>Year</u>	<u>Trns/Subs</u>
MAMT	<u>105</u>	<u>2</u>	_____	_____	_____	_____	MAMT	<u>148</u>	<u>3</u>	_____	_____	_____	_____
MAMT	<u>106</u>	<u>1</u>	_____	_____	_____	_____	MAMT	<u>151</u>	<u>3</u>	_____	_____	_____	_____
MAMT	<u>115</u>	<u>3</u>	_____	_____	_____	_____	MAMT	<u>155</u>	<u>3</u>	_____	_____	_____	_____
MAMT	<u>120</u>	<u>4</u>	_____	_____	_____	_____	MAMT	<u>160</u>	<u>2</u>	_____	_____	_____	_____
MAMT	<u>125</u>	<u>4</u>	_____	_____	_____	_____	UTEC	<u>107</u>	<u>4</u>	_____	_____	_____	_____
MAMT	<u>130</u>	<u>4</u>	_____	_____	_____	_____							
MAMT	<u>140</u>	<u>3</u>	_____	_____	_____	_____							
or													
MAMT	<u>170</u>	<u>3</u>	_____	_____	_____	_____							

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Required Courses:

- MAMT 105 Print Reading/Sketching
- MAMT 106 Geometric Tolerance
- MAMT 115 Introduction to Machine Shop
- MAMT 120 Machine Technology I
- MAMT 125 Machine Technology II
- MAMT 130 Machine Technology III
- MAMT 140 Job Shop Machining II **OR** MAMT 170 Practical Applications
- MAMT 148 CNC Applications
- MAMT 151 Numerical Control Machining I
- MAMT 155 Numerical Control Machining II
- MAMT 160 Properties of Materials
- UTEC 107 Math for Technology

- Additional expenses – Students in Machine Technology may be required to purchase approximately \$375.00 in safety glasses, tools, and material. This does not include the cost of textbooks. This cost may vary with student needs and brand or quality of tools and equipment purchased. All safety glasses must meet minimum industry safety standards, Z-87 with side shields.

**SUGGESTED COURSE SEQUENCING FOR THE
TECHNICAL CERTIFICATE WITH A
MAJOR IN MANUFACTURING TECHNOLOGY,
EMPHASIS IN MACHINE AND MANUFACTURING TRADES**

This is a recommended sequence of course work. Certain courses may have prerequisites or are only offered during the Fall or Spring semesters. It is the student's responsibility to meet with their advisor and check the 2 year course matrix on the Mesa State website for course availability.

<u>First Semester</u>		<u>Hours</u>	<u>Second Semester</u>		<u>Hours</u>
MAMT 105	Print Reading/Sketching	2	MAMT 130	Machine Technology II	4
MAMT 106	Geometric Tolerancing	1	MAMT 151	Numerical Control Machining I	3
UTEC 107	Math for Technology	4	MAMT 155	Numerical Control Machining II	3
MAMT 115	Introduction to Machine Shop	3	MAMT 140	Job Shop Machining II <u>or</u>	
MAMT 120	Machine Technology I	4	MAMT 170	Practical Application	3
MAMT 125	Machine Technology II	4	MAMT 160	Properties of Materials	<u>2</u>
MAMT 148	CNC Applications	<u>3</u>			15
		21			