



2005 – 06 PETITION/PROGRAM SHEET
Certificate: Manufacturing Technology – Machine and Manufacturing Trades
www.mesastate.edu/schools/utec/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 UTEC Director of Instruction for signature.
5. Finally, the UTEC 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

Date

Signature of UTEC Director of Instruction

Date

Signature of Registrar

Date

Certificate: Manufacturing Technology – Machine and Manufacturing Trades (43 Semester Hours)

Course	No.	Credit	Grade	Term	Year	Trns/Subs	Course	No.	Credit	Grade	Term	Year	Trns/Subs
CADT	101	1	_____	_____	_____	_____	MAMT	135L	2	_____	_____	_____	_____
ENGL	090	3	_____	_____	_____	_____	MAMT	140	1	_____	_____	_____	_____
or							and						
ENGL	111	3	_____	_____	_____	_____	MAMT	140L	2	_____	_____	_____	_____
MAMT	105	2	_____	_____	_____	_____	or						
MAMT	106	1	_____	_____	_____	_____	MAMT	170	3	_____	_____	_____	_____
MAMT	115	1	_____	_____	_____	_____	MAMT	148	3	_____	_____	_____	_____
MAMT	115L	2	_____	_____	_____	_____	MAMT	151	1	_____	_____	_____	_____
MAMT	120	1	_____	_____	_____	_____	MAMT	151L	2	_____	_____	_____	_____
MAMT	120L	3	_____	_____	_____	_____	MAMT	155	1	_____	_____	_____	_____
MAMT	125	1	_____	_____	_____	_____	MAMT	155L	2	_____	_____	_____	_____
MAMT	125L	3	_____	_____	_____	_____	MAMT	160	1	_____	_____	_____	_____
MAMT	130	1	_____	_____	_____	_____	MAMT	160L	1	_____	_____	_____	_____
MAMT	130L	3	_____	_____	_____	_____	UTEC	107	4	_____	_____	_____	_____
MAMT	135	1	_____	_____	_____	_____							

- 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.

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Required Courses:

CADT 101 Introduction to Computers
 ENGL 090 Basic Writing **or** ENGL 111 English Composition
 MAMT 105 Print Reading/Sketching
 MAMT 106 Geometric Tolerance
 MAMT 115 Introduction to Machine Shop
 MAMT 115L Introduction to Machine Shop Laboratory
 MAMT 120 Machine Technology I
 MAMT 120L Machine Technology I Laboratory
 MAMT 125 Machine Technology II
 MAMT 125L Machine Technology II Laboratory
 MAMT 130 Machine Technology III
 MAMT 130L Machine Technology III Laboratory
 MAMT 135 Job Shop Machining I
 MAMT 135L Job Shop Machining I Laboratory
 MAMT 140 Job Shop Machining II **and** MAMT 140L Job Shop Machining II Laboratory
OR MAMT 170 Practical Applications
 MAMT 148 CNC Applications
 MAMT 151 Numerical Control Machining I
 MAMT 151L Numerical Control Machining I Laboratory
 MAMT 155 Numerical Control Machining II
 MAMT 155L Numerical Control Machining II Laboratory
 MAMT 160 Properties of Materials
 MAMT 160L Properties of Materials Laboratory
 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
CERTIFICATE OF OCCUPATIONAL PROFICIENCY WITH AN EMPHASIS IN
MANUFACTURING TECHNOLOGY – MACHINE AND MANUFACTURING TRADES**

First Semester		Hours	Second Semester		Hours
CADT 101	Introduction to Computers	1	MAMT 130	Machine Technology II	1
MAMT 105	Print Reading/Sketching	2	MAMT 130L	Machine Technology II Lab	3
MAMT 106	Geometric Tolerancing	1	MAMT 135	Job Shop Machining I	1
UTEC 107	Math for Technology	4	MAMT 135L	Job Shop Machining I Lab	2
MAMT 115	Introduction to Machine Shop	1	MAMT 151	Numerical Control Machining I	1
MAMT 115L	Introduction to Machine Shop Lab	2	MAMT 151L	Numerical Control Machining I Lab	2
MAMT 120	Machine Technology I	1	MAMT 155	Numerical Control Machining II	1
MAMT 120L	Machine Technology I Lab	3	MAMT 155L	Numerical Control Machining II Lab	2
MAMT 125	Machine Technology II	1	MAMT 140	Job Shop Machining II and	1
MAMT 125L	Machine Technology II Lab	3	MAMT 140L	Job Shop Machining II Lab or	2
MAMT 148	CNC Applications	<u>3</u>	MAMT 170	Practical Application	3
		22	MAMT 160	Properties of Materials	1
			MAMT 160L	Properties of Materials Lab	1
			ENGL 090	Basic Writing or	
			ENGL 111	English Composition	<u>3</u>
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