



2005 – 06 PETITION/PROGRAM SHEET
Degree: Associate of Applied Science – Manufacturing Technology
Emphasis: Machining Technology
www.mesastate.edu/schools/utec/manf.htm

About This Degree . . .

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 of study 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

GENERAL EDUCATION (18 Semester Hours)

<u>Course</u>	<u>No.</u>	<u>Credit</u>	<u>Grade</u>	<u>Term</u>	<u>Year</u>	<u>Trns/Subs</u>
English (6 semester hours)						
ENGL	<u>111</u>	<u>3</u>	_____	_____	_____	_____
ENGL	<u>112</u>	<u>3</u>	_____	_____	_____	_____

Mathematics - MATH 113 or UTEC 107 (4 semester hours)

_____	_____	<u>4</u>	_____	_____	_____	_____
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<u>Course</u>	<u>No.</u>	<u>Credit</u>	<u>Grade</u>	<u>Term</u>	<u>Year</u>	<u>Trns/Subs</u>
Social and Behavioral Science, Humanities or Selected Speech Courses (6 semester hours)						

_____	_____	<u>3</u>	_____	_____	_____	_____
_____	_____	<u>3</u>	_____	_____	_____	_____

Human Performance and Wellness (2 semester hours)

HPWA	<u>100</u>	<u>1</u>	_____	_____	_____	_____
HPWE	_____	<u>1</u>	_____	_____	_____	_____

Associate of Applied Science: Manufacturing Technology – Machining Technology Course Requirements (52 Semester Hours)

<u>Course</u>	<u>No.</u>	<u>Credit</u>	<u>Grade</u>	<u>Term</u>	<u>Year</u>	<u>Trns/Subs</u>
CADT	<u>101</u>	<u>1</u>	_____	_____	_____	_____
CADT	<u>106</u>	<u>1</u>	_____	_____	_____	_____
CADT	<u>106L</u>	<u>2</u>	_____	_____	_____	_____
MAMT	<u>101</u>	<u>2</u>	_____	_____	_____	_____
MAMT	<u>105</u>	<u>2</u>	_____	_____	_____	_____
MAMT	<u>106</u>	<u>1</u>	_____	_____	_____	_____
MAMT	<u>115</u>	<u>1</u>	_____	_____	_____	_____
MAMT	<u>115L</u>	<u>2</u>	_____	_____	_____	_____
MAMT	<u>120</u>	<u>1</u>	_____	_____	_____	_____
MAMT	<u>120L</u>	<u>3</u>	_____	_____	_____	_____
MAMT	<u>125</u>	<u>1</u>	_____	_____	_____	_____
MAMT	<u>125L</u>	<u>3</u>	_____	_____	_____	_____
MAMT	<u>130</u>	<u>1</u>	_____	_____	_____	_____
MAMT	<u>130L</u>	<u>3</u>	_____	_____	_____	_____
MAMT	<u>140</u>	<u>1</u>	_____	_____	_____	_____
and						
MAMT	<u>140L</u>	<u>2</u>	_____	_____	_____	_____
or						
MAMT	<u>170</u>	<u>3</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>148</u>	<u>3</u>	_____	_____	_____	_____
MAMT	<u>151</u>	<u>1</u>	_____	_____	_____	_____
MAMT	<u>151L</u>	<u>2</u>	_____	_____	_____	_____
MAMT	<u>155</u>	<u>1</u>	_____	_____	_____	_____
MAMT	<u>155L</u>	<u>2</u>	_____	_____	_____	_____
MAMT	<u>160</u>	<u>1</u>	_____	_____	_____	_____
MAMT	<u>160L</u>	<u>1</u>	_____	_____	_____	_____
MAMT	<u>207</u>	<u>2</u>	_____	_____	_____	_____
UTEC	<u>220</u>	<u>3</u>	_____	_____	_____	_____
WELD	<u>151</u>	<u>1</u>	_____	_____	_____	_____
WELD	<u>151L</u>	<u>2</u>	_____	_____	_____	_____
PHYS	<u>100</u>	<u>3</u>	_____	_____	_____	_____

(or higher)

Electives (3 semester hours) (Any college level undergraduate courses except HPWE)

_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

- 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.

GENERAL EDUCATION (18 Semester Hours)**English – 6 Semester Hours**

ENGL 111 and ENGL 112

Mathematics – 4 semester hours

UTEC 107 or MATH 113

Social and Behavioral Science, Humanities, or Selected Speech Courses – 6 semester hours (See current MSC catalog for the approved list of courses that fulfill this requirement.)**Human Performance and Wellness – 2 semester hours**

HPWA 100 and one HPWE activity

Associate of Applied Science in Manufacturing Technology – Machining Technology (52 Semester Hours)

CADT 101 Introduction to Computers
CADT 106 Computer Aided Design
CADT 106L Computer Aided Design Laboratory
MAMT 101 Introduction to Manufacturing
MAMT 105 Print Reading/Sketching
MAMT 106 Geometric Tolerancing
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 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
MAMT 207 Introduction to Statistical Processes
UTEC 220 Industry Employment Practices
WELD 151 Industrial Welding
WELD 151L Industrial Welding Laboratory
PHYS 100 Concepts of Physics (or higher level physics course)
Electives (3 semester hours)

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 of Z-87 with side shields.

SUGGESTED COURSE SEQUENCING FOR THE ASSOCIATE OF APPLIED SCIENCE WITH AN EMPHASIS IN MANUFACTURING TECHNOLOGY – MACHINING TECHNOLOGY

First Semester		Hours	Second Semester		Hours
MAMT 101	Introduction to Manufacturing	2	ENGL 111	English Composition	3
UTEC 107	Math for Technology or		MAMT 120	Machine Technology I	1
MATH 113	College Algebra	4	MAMT 120L	Machine Technology I Lab	3
General Education Soc/Beh Sci., Humanities, Speech		3	MAMT 125	Machine Technology II	1
CADT 101	Introduction to Computers	1	MAMT 125L	Machine Technology II Lab	3
MAMT 115	Introduction to Machine Shop	1	MAMT 130	Machine Technology III	1
MAMT 115L	Introduction to Machine Shop Lab	2	MAMT 130L	Machine Technology III Lab	3
MAMT 105	Print Reading/Sketching	2	MAMT 160	Properties of Materials	1
MAMT 106	Geometric Tolerancing	1	MAMT 160L	Properties of Materials Lab	<u>1</u>
HPWA 100	Health and Wellness	<u>1</u>			17
		17			
Third Semester		Hours	Fourth Semester		Hours
ENGL 112	English Composition	3	MAMT 155	Numerical Control Machining II	1
CADT 106	Beginning CAD	1	MAMT 155L	Numerical Control Machining II Lab	2
CADT 106L	Beginning CAD Lab	2	UTEC 220	Industry Employment Practices	3
HPWE Activity		1	MAMT 140	Job Shop Machining II and	1
General Education Soc/Beh Sci., Humanities, Speech		3	MAMT 140L	Job Shop Machining II Lab or	2
MAMT 148	CNC Applications	3	MAMT 170	Practical Application	3
MAMT 207	Intro to Statistical Process Control	2	MAMT 151	Numerical Control Machining I	1
PHYS 100	Concepts of Physics	<u>3</u>	MAMT 151L	Numerical Control I Machining I Lab	2
		18	WELD 151	Industrial Welding	1
			WELD 151L	Industrial Welding Lab	2
			Electives		<u>3</u>
					18