



2007 –08 PETITION/PROGRAM SHEET

Degree: Associate of Applied Science
Major: Manufacturing Technology
Emphasis: Machining Technology
www.mesastate.edu/wccc/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 WCCC Director of Instruction for signature.
5. Finally, the WCCC Director 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 \_\_\_\_\_ 20\_\_

Signature of WCCC Director \_\_\_\_\_ Date \_\_\_\_\_ 20\_\_

Signature of Registrar \_\_\_\_\_ Date \_\_\_\_\_ 20\_\_

Students should work closely with a faculty advisor when selecting and scheduling courses prior to registration.

Degree Requirements:

- 2.00 cumulative GPA or higher in all MSC coursework and a “C” or better must be achieved in each course which comprises the area of emphasis or specialization for MAMT.
- Program sheets are for advising purposes only. Because a program may have requirements specific to the degree, check with your advisor for additional guidelines, including prerequisites, grade point averages, grades, exit examinations, and other expectations. It is the student’s responsibility to be aware of, and follow, all guidelines for the degree being pursued. Any exceptions or substitutions must be approved by the faculty advisor and/or Department Head.
- When filling out the program sheet a course can be used only once.
- See the “Undergraduate Graduation Requirements” in the Mesa State College catalog for additional graduation information.

**GENERAL EDUCATION REQUIREMENTS** (18 Semester Hours)

See the current Mesa State College catalog for a list of courses that fulfill the requirements below. If a course is on the general education list of options and a requirement for your major, you must use it to fulfill the major requirement and make a different selection within the general education requirement.

Course No	Title	Sem.hrs	Grade	Term/Trns
<b>English</b> (6 semester hours)				
ENGL 111	English Composition	3	_____	_____
ENGL 112	English Composition	3	_____	_____
<b>Math: MATH 113 or UTEC 107</b> (4 semester hours)				
_____	_____	4	_____	_____
<b>Social and Behavioral Science, Humanities or Selected Speech Courses</b> (6 semester hours)				
_____	_____	3	_____	_____
_____	_____	3	_____	_____

Course No	Title	Sem.hrs	Grade	Term/Trns
<b>Kinesiology</b> (2 semester hours)				
KINE 100	Health and Wellness	1	_____	_____
KINA 1	_____	1	_____	_____

**ASSOCIATE OF APPLIED SCIENCE: MANUFACTURING TECHNOLOGY MACHINING TECHNOLOGY COURSE REQUIREMENTS**

(48 semester hours)

**Core Classes**

CADT 101	Introduction to Computers	1	_____	_____
MAMT 101	Introduction to Manufacturing	2	_____	_____
MAMT 105	Print Reading/Sketching	2	_____	_____
MAMT 106	Geometric Tolerancing	1	_____	_____
MAMT 115	Introduction to Machine Shop	3	_____	_____
MAMT 120	Machine Technology I	4	_____	_____
MAMT 125	Machine Technology II	4	_____	_____
MAMT 130	Machine Technology III	4	_____	_____
MAMT 140	Job Shop Machining II	3	_____	_____
<b><u>OR</u></b>				
MAMT 170	Practical Applications	3	_____	_____
MAMT 148	CNC Applications	3	_____	_____
MAMT 151	Numerical Control Machining I	3	_____	_____
MAMT 155	Numerical Control Machining II	3	_____	_____
MAMT 160	Properties of Materials	2	_____	_____
MAMT 207	Intro to Statistical Processes	2	_____	_____
UTEC 220	Industry Employment Practices	3	_____	_____
WELD 151	Industrial Welding	2	_____	_____
PHYS 100	Concepts of Physics	3	_____	_____

(or higher)

**Electives:** (3 semester hours) (Any college level undergraduate courses except KINA)

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 A MAJOR IN MANUFACTURING TECHNOLOGY, EMPHASIS IN MACHINING TECHNOLOGY

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.

<b>First Semester</b>		<b>Hours</b>	<b>Second Semester</b>		<b>Hours</b>
MAMT 101	Introduction to Manufacturing	2	ENGL 111	English Composition	3
UTEC 107	Math for Technology <b>or</b>		MAMT 120	Machine Technology I	4
MATH 113	College Algebra	4	MAMT 125	Machine Technology II	4
General Education	Soc/Beh Sci., Humanities, Speech	3	MAMT 130	Machine Technology III	4
CADT 101	Introduction to Computers	1	MAMT 160	Properties of Materials	<u>2</u>
MAMT 115	Introduction to Machine Shop	3			17
MAMT 105	Print Reading/Sketching	2			
MAMT 106	Geometric Tolerancing	1			
KINE 100	Health and Wellness	<u>1</u>			
		17			

<b>Third Semester</b>		<b>Hours</b>	<b>Fourth Semester</b>		<b>Hours</b>
ENGL 112	English Composition	3	MAMT 155	Numerical Control Machining II	3
KINA	Activity	1	UTEC 220	Industry Employment Practices	3
General Education	Soc/Beh Sci., Humanities, Speech	3	MAMT 140	Job Shop Machining II <b>or</b>	
MAMT 148	CNC Applications	3	MAMT 170	Practical Application	3
MAMT 207	Intro to Statistical Process Control	2	MAMT 151	Numerical Control I Machining I	3
PHYS 100	Concepts of Physics	<u>3</u>	WELD 151	Industrial Welding	2
		15	Electives		<u>3</u>
					17