

## 2011-2012 PETITION/PROGRAM SHEET

**Degree: Associate of Applied Science**

**Major: Manufacturing Technology**

**Emphasis: Machining Technology**

### About This Degree . . .

The Associate of Applied Science with the Manufacturing Technology major offers classroom instruction and related lab work with hands-on activities in the use of tools and the operation of equipment found in manufacturing. In the Machining Technology emphasis students learn to apply industrial knowledge and skills to plan and implement designs, operate manual mills and lathes, operate computer-aided machinery with CAD/CAM software, and computer-numerical controlled (CNC) machines. Students also develop the skills that enable them to read blueprints, apply appropriate mathematical concepts, and understand the properties of metal and polymers. This course of study is designed to meet competency-based standards set by the manufacturing industry. With this degree, student will be qualified for the following employment opportunities: entry-level machinist, computer-numerical control operator, numerical tool and process technician, manufacturing engineering technician, and manufacturing inspection technician.

### POLICIES:

1. It is your responsibility to determine whether you have met the requirements for your degree. Please see the 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 CMU coursework and a “C” or better must be achieved in coursework toward major content area.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- A student must follow the CMU graduation requirements either from 1) the program sheet for the major in effect at the time the student officially declares a major; or 2) a program sheet for the major approved for a year subsequent to the year during which the student officially declares the major and is approved for the student by the department head. Because a program may have requirements specific to the degree, the student should check with the faculty advisor for additional criteria. It is the student’s responsibility to be aware of, and follow, all requirements for the degree being pursued. Any exceptions or substitutions must be approved by the student’s faculty advisor and Department Head.
- When filling out the program sheet a course can be used only once.
- See the “Undergraduate Graduation Requirements” in the catalog for additional graduation information.

**GENERAL EDUCATION REQUIREMENTS** (18 semester hours)

See the current 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
-----------	-------	---------	-------	-----------

**English**(6 semester hours)

ENGL 111	English Composition	3	_____	_____
ENGL 112	English Composition	3	_____	_____

**Math: MATH 113or UTEC 107**(4 semester hours)

_____	_____	4	_____	_____
-------	-------	---	-------	-------

**Social and Behavioral Science, Humanities or Selected Speech Courses**(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 REUOIREMENTS**  
(52semester hours)

**Core Classes**

CADT101	Introduction to Computers	1	_____	_____
CADT 108	CAD Mechanical	3	_____	_____
MAMT101	Introduction to Manufacturing	2	_____	_____
MAMT105	Print Reading/Sketching	2	_____	_____
MAMT106	Geometric Tolerancing	1	_____	_____
MAMT115	Introduction to Machine Shop	3	_____	_____
MAMT120	Machine Technology I	4	_____	_____
MAMT125	Machine Technology II	4	_____	_____
MAMT130	Machine Technology III	4	_____	_____
MAMT140	Job Shop Machining II	3	_____	_____

**OR**

MAMT170	Practical Applications	3	_____	_____
MAMT148	CNC Applications	3	_____	_____
MAMT151	Numerical Control Machining I	3	_____	_____
MAMT155	Numerical Control Machining II	3	_____	_____
MAMT160	Properties of Materials	2	_____	_____
MAMT207	Intro to Statistical Processes	2	_____	_____
TSTG 220	Industry Employment Practices	3	_____	_____
WELD151	Introduction to Welding	3	_____	_____
PHYS100	Concepts of Physics	3	_____	_____

(or higher)

**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 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 the assigned advisor and check the 2 year course matrix on the Colorado Mesa website for course availability.

<b>First Semester</b>	<b>Hours</b>	<b>Second Semester</b>	<b>Hours</b>	
UTEC 107	Math for Technology <b>or</b>	MAMT 130	Machine Technology II	4
MATH 113	College Algebra	MAMT 151	Numerical Control Machining I	3
MAMT 115	Introduction to Machine Shop	MAMT 155	Numerical Control Machining II	3
MAMT 120	Machine Technology I	MAMT 140	Job Shop Machining II <b>or</b>	
MAMT 125	Machine Technology II	MAMT 170	Practical Application	3
MAMT 148	CNC Applications	MAMT 160	Properties of Materials	2
	<u>18</u>	MAMT 105	Print Reading/Sketching	2
		MAMT 106	Geometric Tolerancing	<u>1</u>
				18

<b>Third Semester</b>	<b>Hours</b>	
CADT 101	Introduction to Computers	1
MAMT 101	Introduction to Manufacturing	2
General Education	Soc/Beh Sci., Humanities, Speech	6
ENGL 111	English Composition	3
MAMT 207	Intro to Statistical Process Control	2
PHYS 100	Concepts of Physics	3
(or higher)		
KINE 100	Health & Wellness	<u>1</u>
		18

<b>Fourth Semester</b>	<b>Hours</b>	
CADT 108	CAD Mechanical	3
ENGL 112	English Composition	3
TSTG 220	Industry Employment Practices	3
WELD 151	Introduction to Welding	3
KINA XXX	Activity	1
Electives		<u>3</u>
		16