WESTERN COLORADO COMMUNITY COLLEGE A Division of Colorado Mesa University

2013-2014 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.

For more information on what you can do with this major, go to http://www.coloradomesa.edu/wccc/programs.html

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 Department Head for signature.
- 5. Finally, the Department Heador 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:						
	()					
on the Program Sheet. I further certify that the grade list	, hereby certify that I have completed (or will complete defect of those courses is the final course grade received except temester. I have indicated the semester in which I will complete	for the courses in which I am				
		20				
Signature of Advisor	Date					
		20				
Signature of Department Head	Date					
		20				
Signature of Registrar	Date					

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

De	gree Requirements:			. 3		
•	69 semester hours total (A minimum of 16 taken at CMU in no	Course No 7	Title Title	Sem.hrs	Grade	Term/Trns
	fewer than two semesters)			3		
•	2.00 cumulative GPA or higher in all CMU coursework and a "C"					
	or better must be achieved in coursework toward major content					
	area.	OTHER LO	WER DIVISION REQUIRES	MENTS		
•	Pre-collegiate courses (usually numbered below 100) cannot be		semester hours)			
	used for graduation.	KINE 100	Health and Wellness	1		
•	A student must follow the CMU graduation requirements either	KINA 1		1		
	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	ASSOCIATI	E OF APPLIED SCIENCE: 1	MANUF	ACTUR	ING
student officially declares the major and is approved for the student		TECHNOLO	DGY _ MACHINING TECHN	OLOGY	COU	RSE
	by the department head. Because a program may have requirements	REUQIREM	IENTS			
specific to the degree, the student should check with the faculty		(52 semester	hours)			
	advisor for additional criteria. It is the student's responsibility to					
	be aware of, and follow, all requirements for the degree being	Core Classes				
	pursued. Any exceptions or substitutions must be approved by the	CADT101	Introduction to Computers	1		
	student's faculty advisor and Department Head.	CADT 108	CAD Mechanical	3		
•	When filling out the program sheet a course can be used only once.	MAMT101	Introduction to Manufacturing	g 2		
•	See the "Undergraduate Graduation Requirements" in the catalog	MAMT105	Print Reading/Sketching	2		
	for additional graduation information.	MAMT106	Geometric Tolerancing	1		
		MAMT115	Introduction to Machine Shop	3		
	NERAL EDUCATION REQUIREMENTS (Minimum 15	MAMT120	Machine Technology I	4		
ser	nester hours) See the current catalog for a list of courses that fulfill	MAMT125	Machine Technology II	4		
the	requirements below. If a course is on the general education list of	MAMT130	Machine Technology III	4		
	ions and a requirement for your major, you must use it to fulfill the	MAMT140	Job Shop Machining II	3		
ma	jor requirement and make a different selection within the general	<u>OR</u>				
edı	ication requirement.	MAMT170	Practical Applications	3		

MAMT148

MAMT151

MAMT155

MAMT160

MAMT207

TSTG 220 WELD151

PHYS100

(or higher)

<u>Electives:</u> (3 semester hours)

Course No Title	Sem.hrs	Grade Term/Trns			
Communication (6 semester hours)					
ENGL 111 English Composition	3				
ENGL 112 English Composition	3				
-OR-					
ENGL 111 English Composition and	3				
SPCH 101 Interpersonal Communication or	3				
SPCH 102 Speechmaking	3				
Mathematics: Minimum Math 107 Career Mathematics (Minimum 3 semester hours)					
·	_ 3				

Social Sciences, Natural Science, Fine Arts or Humanities or Selected Applied Studies Courses* (Minimum 6 semester hours)

CNC Applications

Properties of Materials

Numerical Control

Concepts of Physics

Machining II

Numerical Control Machining I 3

Intro to Statistical Processes 2

Industry Employment Practices 3

Introduction to Welding 3

2

3

^{*}Please see your advisor for requirements specific to this program.

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.

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

Third Semester	r	Hours			
CADT 101	Introduction to Computers	1	Fourth Seme	ster	Hours
MAMT 101	Introduction to Manufacturing	2	CADT 108	CAD Mechanical	3
General Educati	on Soc/Beh Sci., Humanities, Speech	6	ENGL 112	English Composition	3
ENGL 111	English Composition	3	TSTG 220	Industry Employment Practices	3
MAMT 207	Intro to Statistical Process Control	2	WELD 151	Introduction to Welding	3
PHYS 100	Concepts of Physics	3	KINA 1	Activity	1
(or higher)			Electives		<u>3</u>
KINE 100	Health & Wellness	<u>1</u>			16
		18			