



**2012-2013 PETITION/PROGRAM SHEET**  
**Degree: Associate of Applied Science**  
**Major: Manufacturing Technology**  
**Emphasis: Computer Aided Design Technology**

**About This Emphasis . . .**

Through the use of freehand sketching and Computer Aided Drafting (CAD), the student will learn the techniques of basic drafting principles and methods used in today's engineering fields. Drafting concepts and the processes of orthographic projection, pictorial drawing, dimensioning, and geometric construction will be explored by hand and with CAD software and equipment. The majority of the student's work will be completed on the computer. A project in the area of the student's interest will tie the course to real world concepts.

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 CMU 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 Head 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).

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**NAME:** \_\_\_\_\_ **STUDENT ID #** \_\_\_\_\_

**LOCAL ADDRESS AND PHONE NUMBER:** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ ( ) \_\_\_\_\_

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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 Department Head 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:

- 70 semester hours total (A minimum of 16 taken at CMU in no fewer than two semesters).
- 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** (Minimum 15 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
<b>Communication</b> (6 semester hours)			
ENGL 111 English Composition	3	_____	_____
ENGL 112 English Composition	3	_____	_____
<b>OR</b>			
ENGL 111 English Composition <b>and</b>	3	_____	_____
SPCH 101 Interpersonal Communication <b>or</b>	3	_____	_____
SPCH 102 Speechmaking	3	_____	_____

**Mathematics: Minimum Math 107 Career Mathematics** (Minimum 3 semester hours)  
 MATH 113 College Algebra\*\* 4\* \_\_\_\_\_  
 \*3 credits apply to the General Education requirements and 1 credit applies to elective credit

**Social Sciences, Natural Science, Fine Arts or Humanities or Selected Applied Studies Courses\*** (Minimum 6 semester hours)  
 \_\_\_\_\_ 3 \_\_\_\_\_  
 \_\_\_\_\_ 3 \_\_\_\_\_

\*\*Required for this degree.

\*\*\*Please see your advisor for requirements specific to this program.

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

**ASSOCIATE OF APPLIED SCIENCE: MANUFACTURING TECHNOLOGY COURSE REQUIREMENTS**  
 (53 semester hours)

<b>Core Classes</b>			
CADT 101 Introduction to Computers	1	_____	_____
CONC 104 Architectural/Civil Print Reading	2	_____	_____
CADT 106 Computer Aided Design	3	_____	_____
CADT 107 Advanced Computer Aided Design	3	_____	_____
CADT 108 CAD – Mechanical	3	_____	_____
CADT 109 CAD – Mechanical Advanced	3	_____	_____
CADT 110 CAD Application	4	_____	_____
CADT 210 Project	3	_____	_____
CADT 130 CAD – Civil	3	_____	_____
CADT 135 CAD – Civil II	3	_____	_____
CADT 140 CAD – Architectural Theory	2	_____	_____
CADT 141 Structural Materials	3	_____	_____
CADT 142 CAD – Residential Architecture	3	_____	_____
CADT 143 CAD – Commercial Architecture	3	_____	_____
MAMT 101 Introduction to Manufacturing	2	_____	_____
MAMT 105 Print Reading/Sketching	2	_____	_____
MAMT 106 Geometric Tolerancing	1	_____	_____
MAMT 115 Introduction to Machine Shop	3	_____	_____
<b>OR</b>			
WELD 151 Introduction to Welding	3	_____	_____

**Electives** (6 semester hours-may need advisors approval)  
 \*MATH 113 College Algebra 1 \_\_\_\_\_  
 \_\_\_\_\_ \_\_\_\_\_  
 \_\_\_\_\_ \_\_\_\_\_

**SUGGESTED COURSE SEQUENCING FOR THE  
ASSOCIATE OF APPLIED SCIENCE WITH A MAJOR IN  
MANUFACTURING TECHNOLOGY, EMPHASIS IN COMPUTER AIDED DESIGN 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.

**FRESHMAN YEAR**

<b>First Semester</b>		<b>Hours</b>	<b>Second Semester</b>		<b>Hours</b>
MATH 113	College Algebra	4	ENGL 111	English Composition	3
CADT 101	Introduction to Computers	1	CADT 107	Advanced Computer Aided Design	3
CONC 104	Architectural/Civil Print Reading	2	CADT 109	CAD – Mechanical Advanced	3
CADT 106	Computer Aided Design	3	MAMT 115	Introduction to Machine Shop <b>or</b>	3
CADT 108	CAD – Mechanical	3	WELD 151	Industrial Welding	2
MAMT 101	Introduction to Manufacturing	2	Social Sciences, Natural Science, Fine Arts or Humanities or Selected Applied Studies Courses		<u>3</u>
MAMT 105	Print Reading/Sketching	2			17-18
MAMT 106	Geometric Tolerancing	<u>1</u>			
		18			

**SOPHOMORE YEAR**

<b>Third Semester</b>		<b>Hours</b>	<b>Fourth Semester</b>		<b>Hours</b>
ENGL 112	or SPCH 101 or SPCH 102	3	CADT 110	CAD Application	4
CADT 140	CAD – Architectural Theory	2	CADT 210	Project	3
CADT 141	Structural Materials	3	CADT 135	CADT Civil II	3
CADT 142	CAD – Residential Architecture	3	CADT 143	CAD Commercial Architecture	3
CADT 130	CAD – Civil	3	Social Sciences, Natural Science, Fine Arts or Humanities or Selected Applied Studies Courses		3
Elective (with advisor's approval)		<u>3</u>	KINA	Activity	1
		17	KINE 100	Health and Wellness	<u>1</u>
					18