



2008-2009 PETITION/PROGRAM SHEET
Degree: Associate of Applied Science
Major: Manufacturing Technology
Emphasis: Computer Aided Design Technology
www.mesastate.edu/wccc/cad.htm

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.

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 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

Signature of WCCC Director

Date

Signature of Registrar

Date

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 coursework toward major content area.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- 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.

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
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English (6 semester hours)

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

Mathematics (4 semester hours)

MATH 113	College Algebra	4	_____	_____	_____
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Social and Behavioral Science, Humanities or Selected Speech Courses (6 semester hours)

_____	_____	3	_____	_____	_____
_____	_____	3	_____	_____	_____

Kinesiology (2 semester hours)

KINE 100	Health and Wellness	1	_____	_____	_____
KINA 1	_____	1	_____	_____	_____

Course	No	Title	Sem.hrs	Grade	Term/Trns
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ASSOCIATE OF APPLIED SCIENCE: MANUFACTURING TECHNOLOGY COURSE REQUIREMENTS

(52-53 semester hours)

Core Classes

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 120	Intro to Still Images	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	_____	_____	_____
<u>OR</u>					
WELD 151	Industrial Welding	2	_____	_____	_____

Electives (6 semester hours-may need advisors approval)

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

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 Mesa State website for course availability.

FRESHMAN YEAR

First Semester		Hours	Second Semester		Hours
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 or	3
CADT 108	CAD – Mechanical	3	WELD 151	Industrial Welding	2
MAMT 101	Introduction to Manufacturing	2	General Education Soc/Beh Sci., Humanities, Speech		3
MAMT 105	Print Reading/Sketching	2	Elective (with advisor's approval)		<u>3</u>
MAMT 106	Geometric Tolerancing	<u>1</u>			17-18
		18			

SOPHOMORE YEAR

Third Semester		Hours	Fourth Semester		Hours
ENGL 112	English Composition	3	CADT 110	CAD Application	4
CADT 140	CAD – Architectural Theory	2	CADT 120	Intro to Still Images	3
CADT 141	Structural Materials	3	CADT 135	CAD Civil II	3
CADT 142	CAD – Residential Architecture	3	CADT 143	CAD Commercial Architecture	3
CADT 130	CAD – Civil	3	General Education Soc/Beh Sci., Humanities, Speech		3
Elective (with advisor's approval)		<u>3</u>	KINA	Activity	1
		17	KINE 100	Health and Wellness	<u>1</u>
					18