



2006 – 07 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 of Instruction for signature.
5. Finally, the WCCC Director of Instruction 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 of Instruction Date _____ 20____

 Signature of Registrar Date _____ 20____

- A cumulative grade point average of 2.0 or higher must be maintained for all courses taken and “C” or better must be achieved in each course which comprises the area of emphasis or specialization for CADT.
- It is recommended that students work closely with a faculty advisor when selecting appropriate courses and scheduling classes.

GENERAL EDUCATION (18 Semester Hours)

Course	No.	Credit	Grade	Term	Year	Trns/Subs
English (6 semester hours)						
ENGL	<u>111</u>	<u>3</u>	_____	_____	_____	_____
ENGL	<u>112</u>	<u>3</u>	_____	_____	_____	_____

Mathematics (4 semester hours)

MATH	<u>113</u>	<u>4</u>	_____	_____	_____	_____
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Course	No.	Credit	Grade	Term	Year	Trns/Subs
Social and Behavioral Science, Humanities or Selected Speech Courses (6 semester hours)						
_____	_____	<u>3</u>	_____	_____	_____	_____
_____	_____	<u>3</u>	_____	_____	_____	_____

Kinesiology (2 semester hours)

KINE/HPWA	<u>100</u>	<u>1</u>	_____	_____	_____	_____
KINA/HPWE	_____	<u>1</u>	_____	_____	_____	_____

See the M.S.C. catalog for the list of approved KINA/HPWE/Selected DANC courses.

Associate of Applied Science: Manufacturing Technology – Computer Aided Design Technology Course Requirements (45-46 Sem. Hours)

Course	No.	Credit	Grade	Term	Year	Trns/Subs	Course	No.	Credit	Grade	Term	Year	Trns/Subs
CADT	<u>101</u>	<u>1</u>	_____	_____	_____	_____	CADT	<u>140</u>	<u>2</u>	_____	_____	_____	_____
CADT	<u>102</u>	<u>1</u>	_____	_____	_____	_____	CADT	<u>141</u>	<u>3</u>	_____	_____	_____	_____
CADT	<u>106</u>	<u>3</u>	_____	_____	_____	_____	CADT	<u>142</u>	<u>3</u>	_____	_____	_____	_____
CADT	<u>107</u>	<u>3</u>	_____	_____	_____	_____	CADT	<u>143</u>	<u>3</u>	_____	_____	_____	_____
CADT	<u>108</u>	<u>3</u>	_____	_____	_____	_____	MAMT	<u>101</u>	<u>2</u>	_____	_____	_____	_____
CADT	<u>109</u>	<u>3</u>	_____	_____	_____	_____	MAMT	<u>105</u>	<u>2</u>	_____	_____	_____	_____
CADT	<u>110</u>	<u>4</u>	_____	_____	_____	_____	MAMT	<u>106</u>	<u>1</u>	_____	_____	_____	_____
CADT	<u>120</u>	<u>3</u>	_____	_____	_____	_____	MAMT	<u>115</u>	<u>3</u>	_____	_____	_____	_____
CADT	<u>130</u>	<u>3</u>	_____	_____	_____	_____	or						
CADT	<u>135</u>	<u>3</u>	_____	_____	_____	_____	WELD	<u>151</u>	<u>2</u>	_____	_____	_____	_____

Electives (6-7 semester hours needed – may need advisor approval)

Course	No.	Credit	Grade	Term	Year	Trns/Subs	Course	No.	Credit	Grade	Term	Year	Trns/Subs
_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____	_____

GENERAL EDUCATION (18 Semester Hours)

English – 6 Semester Hours
ENGL 111 and ENGL 112

Mathematics – 4 semester hours
MATH 113

Social and Behavioral Science, Humanities, or Selected Speech Courses – 6 semester hours (See current MSC catalog for the approved list of courses that fulfill this requirement.)

Kinesiology – 2 semester hours
KINE/HPWA 100 and one KINA/HPWE/Selected DANC course

Associate of Applied Science in Manufacturing Technology – Computer Aided Design Technology
(45-46 Semester Hours)

CADT 101 Introduction to Computers
CADT 102 Architectural/Civil Print Reading
CADT 106 Computer Aided Design
CADT 107 Advanced Computer Aided Design
CADT 108 CAD – Mechanical
CADT 109 CAD – Mechanical Advanced
CADT 110 CAD Application
CADT 120 Intro to Still Images
CADT 130 CAD – Civil
CADT 135 CAD – Civil II
CADT 140 CAD – Architectural Theory
CADT 141 Structural Materials
CADT 142 CAD – Residential Architecture
CADT 143 CAD – Commercial Architecture
MAMT 101 Introduction to Manufacturing
MAMT 105 Print Reading/Sketching
MAMT 106 Geometric Tolerancing
MAMT 115 Introduction to Machine Shop or
WELD 151 Industrial Welding

General Electives: 6-7 Semester Hours; may need advisor 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 their 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
CADT 102	Architectural/Civil Print Reading	1	CADT 109	CAD – Mechanical Advanced	3
CADT 106	Computer Aided Design	3	MAMT 115	Introduction to Machine Shop <u>or</u>	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
		17			

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>3-4</u>	KINA/HPWE	Activity	1
		17-18	KINE/HPWA 100	Health and Wellness	<u>1</u>
					18