



2005 – 06 PETITION/PROGRAM SHEET
Certificate: Manufacturing Technology – Computer Aided Design Technology
www.mesastate.edu/schools/utec/cad.htm

About This Certificate . . .

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 UTEC Director of Instruction for signature.
5. Finally, the UTEC 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

Signature of UTEC Director of Instruction

Date

Signature of Registrar

Date

Certificate: Manufacturing Technology – Computer Aided Design Technology (33 Semester Hours)

<u>Course</u>	<u>No.</u>	<u>Credit</u>	<u>Grade</u>	<u>Term</u>	<u>Year</u>	<u>Trns/Subs</u>	<u>Course</u>	<u>No.</u>	<u>Credit</u>	<u>Grade</u>	<u>Term</u>	<u>Year</u>	<u>Trns/Subs</u>
CADT	<u>101</u>	<u>1</u>	_____	_____	_____	_____	CADT	<u>110</u>	<u>2</u>	_____	_____	_____	_____
CADT	<u>106</u>	<u>1</u>	_____	_____	_____	_____	CADT	<u>110L</u>	<u>2</u>	_____	_____	_____	_____
CADT	<u>106L</u>	<u>2</u>	_____	_____	_____	_____	CADT	<u>120</u>	<u>1</u>	_____	_____	_____	_____
CADT	<u>107</u>	<u>1</u>	_____	_____	_____	_____	CADT	<u>120L</u>	<u>2</u>	_____	_____	_____	_____
CADT	<u>107L</u>	<u>2</u>	_____	_____	_____	_____	ENGL	<u>111</u>	<u>3</u>	_____	_____	_____	_____
CADT	<u>108</u>	<u>1</u>	_____	_____	_____	_____	MAMT	<u>105</u>	<u>2</u>	_____	_____	_____	_____
CADT	<u>108L</u>	<u>2</u>	_____	_____	_____	_____	MAMT	<u>106</u>	<u>1</u>	_____	_____	_____	_____
CADT	<u>109</u>	<u>1</u>	_____	_____	_____	_____	UTEC	<u>107</u>	<u>4</u>	_____	_____	_____	_____
CADT	<u>109L</u>	<u>2</u>	_____	_____	_____	_____	<u>Electives (with advisor's approval, 3 semester hours)</u>						
							_____	_____	_____	_____	_____	_____	_____
							_____	_____	_____	_____	_____	_____	_____

- A cumulative grade point average of 2.0 or higher must be maintained for all courses taken and a “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.

Certificate: Manufacturing Technology – Computer Aided Design Technology (33 Semester Hours)**Required Courses:**

CADT 101 Introduction to Computers
 CADT 106 Computer Aided Design
 CADT 106L Computer Aided Design Laboratory
 CADT 107 Advanced Computer Aided Design
 CADT 107L Advanced Computer Aided Design Laboratory
 CADT 108 CAD – Mechanical
 CADT 108L CAD – Mechanical Laboratory
 CADT 109 CAD – Mechanical Advanced
 CADT 109L CAD – Mechanical Advanced Laboratory
 CADT 110 CAD Application
 CADT 110L CAD Application Laboratory
 CADT 120 Intro to Still Images
 CADT 120 Intro to Still Images Laboratory
 ENGL 111 English Composition
 MAMT 105 Print Reading/Sketching
 MAMT 106 Geometric Tolerancing
 UTEC 107 Math for Technology
 Electives (3 semester hours with advisor's approval)

**SUGGESTED COURSE SEQUENCING FOR THE CERTIFICATE OF OCCUPATIONAL
PROFICIENCY WITH AN EMPHASIS IN MANUFACTURING TECHNOLOGY –
COMPUTER AIDED DESIGN TECHNOLOGY**

First Semester		Hours	Second Semester		Hours
CADT 101	Introduction to Computers	1	CADT 107	Adv. Computer Aided Design	1
CADT 106	Computer Aided Design	1	CADT 107	Adv. Computer Aided Design Lab	2
CADT 106L	Computer Aided Design Lab	2	CADT 109	CAD – Mechanical Advanced	1
CADT 108	CAD – Mechanical	1	CADT 109L	CAD – Mechanical Advanced Lab	2
CADT 108L	CAD – Mechanical Lab	2	CADT 110	CAD Application	2
ENGL 111	English Composition	3	CADT 110L	CAD Application Lab	2
MAMT 105	Print Reading/Sketching	2	CADT 120	Intro to Still Images	1
MAMT 106	Geometric Tolerancing	1	CADT 120L	Intro to Still Images Lab	2
UTEC 107	Math for Technology <u>or</u>		Electives (with advisor's approval)		<u>3</u>
MATH 113	College Algebra	<u>4</u>			16
		17			