



2006 – 07 PETITION/PROGRAM SHEET
Degree: Technical Certificate
Major: Manufacturing Technology
Emphasis: Welding Technology
www.mesastate.edu/wccc/manf.htm

About This Certificate . . .

This program offers classroom instruction and related lab work with hands-on activities in the use of tools and the operation of manufacturing equipment. Students study welding and cutting, fluid power and pneumatics, robotics, properties of materials and basic electrical theory. This course is designed to meet competency-based standards set by the industry. Attitude and quality of workmanship is stressed.

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 a “C” or better must be achieved in each course which comprises the area of emphasis or specialization for WELD.
- It is recommended that students work closely with a faculty advisor when selecting appropriate courses and scheduling classes.

Technical Certificate: Manufacturing Technology – Welding Technology (35 Semester Hours)

Need a “C” or higher in all WELD courses.

Course	No.	Credit	Grade	Term	Year	Trns/Subs	Course	No.	Credit	Grade	Term	Year	Trns/Subs
CADT	<u>101</u>	<u>1</u>	_____	_____	_____	_____	WELD	<u>110</u>	<u>3</u>	_____	_____	_____	_____
ENGL	<u>111</u>	<u>3</u>	_____	_____	_____	_____	WELD	<u>115</u>	<u>2</u>	_____	_____	_____	_____
MAMT	<u>105</u>	<u>2</u>	_____	_____	_____	_____	WELD	<u>117</u>	<u>3</u>	_____	_____	_____	_____
MAMT	<u>160</u>	<u>2</u>	_____	_____	_____	_____	WELD	<u>133</u>	<u>2</u>	_____	_____	_____	_____
UTEC	<u>107</u>	<u>4</u>	_____	_____	_____	_____	WELD	<u>170</u>	<u>3</u>	_____	_____	_____	_____
UTEC	<u>150</u>	<u>3</u>	_____	_____	_____	_____	WELD	<u>211</u>	<u>4</u>	_____	_____	_____	_____
UTEC	<u>120</u>	<u>3</u>	_____	_____	_____	_____							
or													
UTEC	<u>220</u>	<u>3</u>	_____	_____	_____	_____							

Technical Certificate: Manufacturing Technology – Welding Technology Course Requirements (35 Semester Hours)

Required Courses:

- CADT 101 Introduction to Computers
- ENGL 111 English Composition
- MAMT 105 Print Reading/Sketching
- MAMT 160 Properties of Materials
- UTEC 107 Math for Technology
- UTEC 150 Fluid Power
- UTEC 120 Industrial Safety Practices **or** UTEC 220 Industry Employment Practices
- WELD 110 SMAW I
- WELD 115 Welding and Structural Theory
- WELD 117 OFW and C I
- WELD 133 Fabrication Layout
- WELD 170 Practical Applications
- WELD 211 GMAW/FCAW

- Students in Welding may be required to purchase approximately \$200.00 in tools and personal safety welding equipment. This does not include required textbooks. These costs may vary with student need and brand or quality of tools or equipment purchased. All safety glasses must meet the minimum industry safety standard of Z-87 with side shields.

**SUGGESTED COURSE SEQUENCING FOR THE
TECHNICAL CERTIFICATE WITH A MAJOR IN MANUFACTURING TECHNOLOGY,
EMPHASIS IN WELDING 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.

<u>First Semester</u>		<u>Hours</u>	<u>Second Semester</u>		<u>Hours</u>
UTEC 107	Math for Technology	4	MAMT 160	Properties of Materials	2
WELD 110	SMAW I	3	WELD 211	GMAW/FCAW	4
WELD 115	Welding/Structural Theory	2	WELD 133	Fabrication Layout	2
WELD 117	OFWC I	3	WELD 170	Practical Applications	3
CADT 101	Introduction to Computers	1	UTEC 150	Fluid Power	3
MAMT 105	Print Reading/Sketching	2	UTEC 120	Industrial Safety Practices <u>or</u>	
ENGL 111	English Composition	<u>3</u>	UTEC 220	Industry Employment Practices	<u>3</u>
		18			17