



2011-2012 PETITION/PROGRAM SHEET

Degree: Associate of Applied Science

Major: Manufacturing Technology

Emphasis: Welding Technology

[www.mesastate.edu/wccc.html](http://www.mesastate.edu/wccc.html)

About This Emphasis . . .

The Welding Technology Degree program is designed to provide training and the opportunity to become proficient at SMAW, GMAW, GTAW, FCAW, OAW, OAC, PAC, CAC-A on plate and SMAW on pipe. Students study welding, cutting, layout, fabrication, fluid power, pneumatics and technical math. Safety, attitude and quality of workmanship are stressed throughout this course. The welding AAS degree prepares students for advanced level placement in a wide range of jobs in the welding industry and is designed to meet competency based standards set by the American Welding Society.

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 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 \_\_\_\_\_ 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:

- 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.
- A student must follow the MSC 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.
- See the “Undergraduate Graduation Requirements” in the Mesa State College catalog for additional graduation information.

**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
<b>English</b> (6 semester hours)				
ENGL 111	English Composition	3	_____	_____
ENGL 112	English Composition	3	_____	_____
<b>Math: MATH 113or UTEC 107</b> (4 semester hours)				
_____	_____	4	_____	_____
<b>Social and Behavioral Science, Humanities or Selected Speech Courses</b> (6 semester hours)				
_____	_____	3	_____	_____
_____	_____	3	_____	_____
<b>Kinesiology</b> (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 – WELDING TECHNOLOGY COURSE REQUIREMENTS**

(39 semester hours)

**Core Classes**

CADT 101	Introduction to Computers	1	_____	_____
CADT 108	Computer Aided Design	3	_____	_____
MAMT 105	Print Reading/Sketching	2	_____	_____
MAMT 150	Intro to Numerical Control	1	_____	_____
MAMT 160	Properties of Materials	2	_____	_____
TSTG 150	Fluid Power	3	_____	_____
TSTG 220	Industry Employment Practices	3	_____	_____

**OR**

TSTG 120	Industrial Safety Practices	3	_____	_____
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WELD 110	Shielded Metal Arc Welding	3	_____	_____
WELD 117	Oxy/Fuel & Plasma Cutting	3	_____	_____
WELD 133	Metal Fabrication Methods	3	_____	_____
WELD 144	Welding Business Operations	3	_____	_____
WELD 211	GMAW/FCAW	3	_____	_____
WELD 230	Gas Tungsten Arc Welding	3	_____	_____
WELD 240	PIPE Welding	3	_____	_____
WELD 270	Practical Applications	3	_____	_____

**Electives:**(6 semester hours)

_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

**TOTAL :** 63 Semester Hours

Students in Welding may be required to purchase approximately \$500.00 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. MSC / WCCC has lockers with required tools available for rent at \$ 50.00 per semester.

**SUGGESTED COURSE SEQUENCING FOR THE ASSOCIATE OF APPLIED SCIENCE 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 the assigned advisor and check the 2 year course matrix on the Mesa State website for course availability.

<b>First Semester</b>		<b>Hours</b>	<b>Second Semester</b>		<b>Hours</b>
CADT101	Introduction to Computers	1	CADT 108	Computer Aided Design- Mechanical	3
MAMT 105	Print Reading/Sketching	2	MAMT 160	Properties of Materials	2
WELD 110	Shielded Metal Arc Welding	3	UTEC 107	Math for Technology <b>OR</b>	
WELD 117	Oxy/Fuel and Plasma Arc Cutting	3	MATH 113	College Algebra	4
WELD 133	Metal Fabrication Methods	3	WELD 211	GMAW/FCAW 3	
WELD 144	Welding Business Operations	<u>3</u>	WELD 230	Gas Tungsten Arc Welding	3
			WELD 240	PIPE Welding	<u>3</u>
		15			18

<b>Third Semester</b>		<b>Hours</b>	<b>Fourth Semester</b>		<b>Hours</b>
ENGL 111	English Composition	3	ENGL 112	English Composition	3
KINE 100	Health and Wellness	1	TSTG 220	Industry Employment Practices <b>OR</b>	
KINA 1xx	Activity	1	TSTG120	Industrial Safety Practice	3
MAMT 150	Introduction to Numerical Control	1	WELD 270	Practical Applications	3
TSTG150	Fluid Power	3	General Education Soc/Beh Sci., Humanities, Speech		3
General Education Soc/Beh Sci., Humanities, Speech		3	Electives		<u>3</u>
Electives		<u>3</u>			
		15			<u>15</u>
					63