



2008 – 09 PETITION/PROGRAM SHEET

Degree: Associate of Applied Science

Major: Manufacturing Technology

Emphasis: Welding Technology

www.mesastate.edu/wccc/manf.htm

About This Emphasis . . .

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 of study 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 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.
- 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/Trms
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English (6 semester hours)

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

Math: MATH 113 or UTEC 107 (4 semester hours)

_____	_____	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/Trms
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ASSOCIATE OF APPLIED SCIENCE: MANUFACTURING TECHNOLOGY – WELDING TECHNOLOGY COURSE REQUIREMENTS

(50 semester hours)

Core Classes

CADT 101	Introduction to Computers	1	_____	_____	_____
CADT 106	Computer Aided Design	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	_____	_____	_____
MAMT 150	Intro to Numerical Control	1	_____	_____	_____
MAMT 160	Properties of Materials	2	_____	_____	_____
MAMT 207	Intro to Statistical Process Control	2	_____	_____	_____

UTEC 150	Fluid Power	3	_____	_____	_____
UTEC 220	Industry Employment Practices	3	_____	_____	_____

OR

UTEC 120	Industrial Safety Practices	3	_____	_____	_____
WELD 110	SMAW	3	_____	_____	_____
WELD 115	Welding and Structural Theory	2	_____	_____	_____
WELD 117	OFW and C	3	_____	_____	_____
WELD 133	Fabrication Layout	2	_____	_____	_____
WELD 170	Practical Applications	3	_____	_____	_____
WELD 211	GMAW/FCAW	4	_____	_____	_____
WELD 230	GTAW	4	_____	_____	_____

Electives: (6 semester hours)

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

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 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.

First Semester		Hours	Second Semester		Hours
MAMT 101	Introduction to Manufacturing	2	MAMT 160	Properties of Materials	2
UTEC 107	Math for Technology or		WELD 115	Welding & Structural Theory	2
MATH 113	College Algebra	4	WELD 133	Fabrication Layout	2
WELD 117	OFW and C	3	WELD 211	GMAW/FCAW	4
CADT 101	Introduction to Computers	1	UTEC 150	Fluid Power	3
MAMT 105	Print Reading/Sketching	2	Elective		<u>3</u>
MAMT 106	Geometric Tolerancing	1			16
WELD 110	SMAW	<u>3</u>			
		16			

Third Semester		Hours	Fourth Semester		Hours
MAMT 115	Introduction to Machine Shop	3	WELD 230	GTAW	4
MAMT 150	Introduction to Numerical Control	1	MAMT 207	Intro to Statistical Process Control	2
CADT 106	Computer Aided Design	3	UTEC 220	Industry Employment Practices or	
KINA	Activity	1	UTEC 120	Industrial Safety Practices	3
ENGL 111	English Composition	3	WELD 170	Practical Applications	3
General Education Soc/Beh Sci., Humanities, Speech		3	ENGL 112	English Composition	3
KINE/ 100	Health and Wellness	1	General Education Soc/Beh Sci., Humanities, Speech		<u>3</u>
Electives		<u>3</u>			18
		18			