2006 – 07 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 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.

_____ _____ 20_____
Signature of Advisor Date

_____ _____ 20_____
Signature of WCCC Director of Instruction Date

_____ _____ 20_____
Signature of Registrar Date

- 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.

General Education (18 Semester Hours)

Course	No.	Credit	Grade	Term	Year	Trns/Subs
English (6 semester hours)						
ENGL	111	3				
ENGL	112	3				
Mathematics - MATH 113 or UTEC 107 (4 semester hours)						
		4				

Course	No.	Credit	Grade	Term	Year	Trns/Subs
Social and Behavioral Science, Humanities or Selected Speech Courses (6 semester hours)						
		3				
		3				
Kinesiology (2 semester hours)						
KINE/HPWA	100	1				
KINA/HPWE		1				

Associate of Applied Science: Manufacturing Technology – Welding Technology Course Requirements (50 Semester Hours)

Course	No.	Credit	Grade	Term	Year	Trns/Subs
CADT	101	1				
CADT	106	3				
MAMT	101	2				
MAMT	105	2				
MAMT	106	1				
MAMT	115	3				
MAMT	150	1				
MAMT	160	2				
MAMT	207	2				
UTEC	150	3				
UTEC	220	3				
or						
UTEC	120	3				

Course	No.	Credit	Grade	Term	Year	Trns/Subs
WELD	110	3				
WELD	115	2				
WELD	117	3				
WELD	133	2				
WELD	170	3				
WELD	211	4				
WELD	230	4				
Electives: 6 semester hours (Any college level undergraduate courses except KINA/HPWE)						

GENERAL EDUCATION (18 Semester Hours)

English – 6 Semester Hours
ENGL 111 **and** ENGL 112

Mathematics – 4 semester hours
UTEC 107 or 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 – Welding Technology (50 Semester Hours)

CADT 101 Introduction to Computers
CADT 106 Computer Aided Design
MAMT 101 Introduction to Manufacturing
MAMT 105 Print Reading/Sketching
MAMT 106 Geometric Tolerancing
MAMT 115 Introduction to Machine Shop
MAMT 150 Introduction to Numerical Control
MAMT 160 Properties of Materials
MAMT 207 Introduction to Statistical Process Control
UTEC 150 Fluid Power
UTEC 220 Industry Employment Practices or UTEC 120 Industrial Safety Practices
WELD 110 SMAW
WELD 115 Welding and Structural Theory
WELD 117 OFW and C
WELD 133 Fabrication Layout
WELD 170 Practical Applications
WELD 211 GMAW/FCAW
WELD 230 GTAW
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 their advisor and check the 2 year course matrix on the Mesa State website for course availability.

First Semester		Hours
MAMT 101	Introduction to Manufacturing	2
UTEC 107	Math for Technology **or**	
MATH 113	College Algebra	4
WELD 117	OFW and C	3
CADT 101	Introduction to Computers	1
MAMT 105	Print Reading/Sketching	2
MAMT 106	Geometric Tolerancing	1
WELD 110	SMAW	3
		16

Second Semester		Hours
MAMT 160	Properties of Materials	2
WELD 115	Welding & Structural Theory	2
WELD 133	Fabrication Layout	2
WELD 211	GMAW/FCAW	4
UTEC 150	Fluid Power	3
Elective		3
		16

Third Semester		Hours
MAMT 115	Introduction to Machine Shop	3
MAMT 150	Introduction to Numerical Control	1
CADT 106	Computer Aided Design	3
KINA/HPWE	Activity	1
ENGL 111	English Composition	3
General Education	Soc/Beh Sci., Humanities, Speech	3
KINE/HPWA 100	Health and Wellness	1
Electives		3
		18

Fourth Semester		Hours
WELD 230	GTAW	4
MAMT 207	Intro to Statistical Process Control	2
UTEC 220	Industry Employment Practices **or**	
UTEC 120	Industrial Safety Practices	3
WELD 170	Practical Applications	3
ENGL 112	English Composition	3
General Education	Soc/Beh Sci., Humanities, Speech	3
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