



2016-2017 PETITION/PROGRAM SHEET
Award: Technical Certificate
Program of Study: Manufacturing Technology
Specialization: Welding Technology

About This Certificate . . .

This Welding Technology program is designed to provide training and opportunity to become proficient at SMAW, GMAW, GTAW, FCAW, OAC, PAC, blueprint reading, fabrication, layout, mathematics, and safety. This program offers classroom lecture and related lab work. Students study welding, cutting, layout, fabrication and technical math. Safety, attitude and quality of workmanship are stressed throughout this course. The welding certificate prepares students for entry 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. This program prepares students to become AWS certified welders in the welding industry.

For more information on what you can do with this major, go to <http://www.coloradomesa.edu/wccc/programs>.

All CMU certificate graduates are expected to demonstrate proficiency in critical thinking, communication fluency, quantitative fluency, and specialized knowledge/applied learning. In addition to these campus-wide student learning outcomes, graduates of this major will be able to:

1. Apply business communication using listening, verbal and written forms that are needed for entry level employment in the industry. (Communication Fluency)
2. Apply Mathematical concepts to meet entry level employment requirements. (Quantitative Fluency)
3. Research, evaluate, synthesize and apply information/data relevant to the industry. (Critical Thinking)
4. Demonstrate knowledge of welding terminology, symbols, business practices, principles and application of associated technical Skills (Specialized Knowledge/Applied Learning)
5. Perform the necessary applied welding skill sets to fulfill the needs of entry level employment. (Applied Learning)
6. Demonstrate ethical and civic responsibility necessary for employees in the industry. (Specialized Knowledge)

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 have read and understand the policies listed on the last page of this 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 Department Head Date 20__

Signature of Registrar Date 20__

DEGREE REQUIREMENTS:

- 2.00 cumulative GPA or higher in all CMU coursework
- “C” or better in each course which comprises the area of emphasis or specialization.
- Pre-collegiate courses (usually numbered below 100) cannot be used for graduation.
- A student must follow the CMU 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.
- 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.
- See the “Requirements for Undergraduate Degrees and Certificates” in the Colorado Mesa University catalog for additional graduation information.

Technical Certificate: Manufacturing Technology – Welding

Technology (33 Semester Hours)

See the current catalog for a list of courses that fulfill the requirements below. If a course is on the Essential Learning 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 Essential Learning requirement. Need a “C” or higher in all WELD courses.

Course No	Title	Sem.hrs	Grade	Term/Trns
MAMT 105	Print Reading/Sketching	2	_____	_____
WELD 110	Shielded Metal Arc Welding	4	_____	_____
WELD 117	Oxy/Fuel & Plasma Cutting	2	_____	_____
MATH 107	Career Mathematics (minimum)	3	_____	_____
WELD 201	Gas Metal Arc Welding	4	_____	_____
ELCE 124	Construction Safety	1	_____	_____
WELD 133	Fabrication & Blueprints	4	_____	_____
WELD 230	Gas Tungsten Arc Welding	4	_____	_____
WELD 203	Flux Cored Arc welding	4	_____	_____
WELD 111	Shielded Metal Arc Welding 2	4	_____	_____
CADT 101	Intro to Computers	<u>1</u>	_____	_____

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**SUGGESTED COURSE SEQUENCING FOR THE
TECHNICAL CERTIFICATE WITH A PROGRAM OF STUDY IN MANUFACTURING
TECHNOLOGY, SPECIALIZATION 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 Colorado Mesa website for course availability.

First Semester			Hours	Second Semester			Hours
MAMT 105	Print Reading/Sketching	2		WELD 133	Fabrication & Blueprints	4	
ELCE 124	Construction Safety	1		CADT 101	Intro to Computers	1	
WELD 110	Shielded Metal Arc Welding	4		WELD 203	Flux Cored Arc Welding	4	
WELD 117	Oxy/Fuel& Plasma Arc Cutting	2		WELD 111	Shielded Metal Arc Welding 2	4	
MATH 107	Career Mathematics	3		WELD 230	Gas Tungsten Arc Welding	<u>4</u>	
WELD 201	Gas Metal Arc Welding	<u>4</u>					
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POLICIES:

1. Please see the catalog for a complete list of graduation requirements.
2. 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.** 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. Your advisor will sign and forward the Program Sheet and Graduation Planning Sheet to the Department Head for signature. Finally, the Department Head will submit the signed forms to the Registrar’s Office. (Students cannot handle the forms once the advisor signs.)
4. 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.
5. NOTE: During your senior year, you will be required to take a capstone exit assessment/project (e.g., Major Field Achievement Test).