

2011– 2012 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, OAW, OAC, PAC, CAC-A on plate and SMAW on pipe. 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 trains students to become certified AWS, API, ASME welders in the welding industry.

POLICIES:

1. It is your responsibility to determine whether you have met the requirements for your degree. Please see the 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

Students should work closely with a faculty advisor when selecting and scheduling courses prior to registration. See the “Undergraduate Graduation Requirements” in the catalog for additional graduation information.

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. MSC / WCCC has lockers with required tools available for rent at \$ 50.00 per semester.

Technical Certificate: Manufacturing Technology – Welding Technology (30 Semester Hours)

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

| Course No | Title | Sem.hrs | Grade | Term/Trns |
|-----------|-----------------------------|----------|-------|-----------|
| CADT 101 | Introduction to Computers | 1 | _____ | _____ |
| MAMT 105 | Print Reading/Sketching | 2 | _____ | _____ |
| MAMT 260 | Properties of Materials | 2 | _____ | _____ |
| UTEC 107 | Math for Technology | 4 | _____ | _____ |
| WELD 110 | Shielded Metal Arc Welding | 3 | _____ | _____ |
| WELD 117 | Oxy/Fuel & PAC | 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 | <u>3</u> | _____ | _____ |
| | | 30 | | |

**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 |
|-----------------------|------------------------------|----------|--------------|------------------------|-------------------------------|----------|--------------|
| CADT 101 | Introduction to Computers | 1 | | MAMT 260 | Properties of Materials | 2 | |
| MAMT 105 | Print Reading/Sketching | 2 | | UTEC 107 | Math for Technology <u>OR</u> | | |
| WELD 110 | Shielded Metal Arc Welding | 3 | | | MATH 113 College Algebra | 4 | |
| WELD 117 | Oxy/Fuel& Plasma Arc Cutting | 3 | | WELD 211 | GMAW/FCAW | 3 | |
| WELD 133 | Metal Fabrication Methods | 3 | | WELD 230 | Gas Tungsten Arc Welding | 3 | |
| WELD 144 | Welding Business Operations | <u>3</u> | | WELD 240 | PIPE Welding | <u>3</u> | |
| | | | 15 | | | | <u>15</u> |
| | | | | | | | 30 |