

Great Falls College Montana State University Welding Technology & Fabrication Program



Student Information and Application Packet Summer and Fall 2015

(Application is subject to change year to year)



**GREAT FALLS
COLLEGE**

**MONTANA STATE
UNIVERSITY**

Dear Prospective Welding Technology & Fabrication student,

I am pleased by your interest in the Welding Technology & Fabrication program at Great Falls College Montana State University. This is an exciting time for welders in our region. We expect a high number of job openings for welding program graduates based on new employers coming to the Great Falls area. Both ADF group and Yates construction have told us they plan on hiring welders to create production modules for oil fields and other metal fabrication components.

Our welding program is recognized by both the American Welding Society (AWS) and the Canadian Welding Bureau (CWB). The skills that you will have as a graduate of the Welding Technology & Fabrication program are highly valued by these industry standard organizations and also by employers. As a graduate, you will be prepared to produce welds in all positions that meet industry standards using the following processes:

Shielded Metal Arc Welding (SMAW)
Gas Metal Arc Welding (GMAW)
Flux Cored Arc Welding (FCAW)

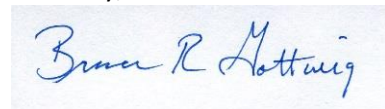
During the time you will spend as a GFC MSU student, you will learn to interpret welding blueprints and weld symbols, understand power sources and current types, and gain other skills necessary for entry level welding jobs.

We are excited to announce that, during the summer of 2015, our welding facility will be undergoing expansion. This expansion will enable us to double the number of students that are enrolled each semester, starting in the fall of 2015. Due to the construction that will be taking place in our trades building for this expansion, the welding classes will be held at C.M.R. High School during the summer semester of 2015.

The Welding Technology & Fabrication program has a limited enrollment capacity. The small class size will be advantageous to you as a student, allowing you more individualized attention and more opportunity for hands-on experience. Students will be selected for the program on a first come, first served basis from the pool of completed applications received by the application priority deadline.

Information regarding the profession, the program, and application materials is enclosed in this packet. Please read the materials carefully. For additional information, answers to specific questions, or to set up an appointment, please contact Student Central at (406) 771-4414 or Pam Buckheit, Administrative Assistant for Business, Trades & Technology, at (406) 771-4391.

Sincerely,



Bruce Gottwig, Ed.D.
Division Director
Business, Trades & Technology
Great Falls College Montana State University

Great Falls College Montana State University
Welding Technology & Fabrication
One-year Certificate of Applied Science Program

Job Description and Occupational Outlook:

If you are looking for a one-year education that will lead to a career in high demand, Welding Technology & Fabrication might be for you. Welders are typically employed in settings that have shift work, some overtime, and may require work indoors and outdoors. You will oversee welding tasks before, during, and after the process to make sure that a quality job is done. Typical job tasks include interpreting welding blueprints and weld symbols, preparing metal fabrication components and performing industry standard welds in all positions (SMAW, GMAW, FCAW). If you have good concentration skills, steady hands, the ability to work unsupervised, and high standards of accuracy, this is the career for you.

According to the Montana Department of Labor, the 2009 hourly wage ranged from \$13.87-\$21.15. Great Falls area employers tell us that their entry-level welders and fitters will start in the \$15-18 per hour range with a full benefits package.

Welding Technology & Fabrication Curriculum:

See the Great Falls College MSU Catalog for specific information on the Welding Technology & Fabrication Program:

<http://catalog.gfcmsu.edu/academic-programs/welding-technology/#text>

This program follows the National Center for Construction Education and Research (NCCER) curriculum.

OUTCOMES: GRADUATES ARE PREPARED TO:

- Meet safety requirements.
- Produce welds in all positions that meet industry standards using the following process(es):
- Shielded Metal Arc Welding (SMAW)
- Flux Cored Arc Welding (FCAW)
- Will be exposed to:
- Gas Metal Arc Welding (GMAW)
- Gas Tungsten Arc Welding (GTAW)
- Make cuts that meet industry standards in the following process(es):
- Oxy-Fuel Cutting (OFC)
- Plasma Arc Cutting (PAC)
- Air Carbon Arc Cutting (CAC-C)
- Understand the use of measuring instruments and their purpose.
- Understand power sources and current types.
- Interpret welding blueprints and weld symbols.
- Utilize basic welding metallurgy.

- Utilize oral and written communication skills in the workplace, including terminology in the welding industry.

Estimated Resident Program Cost*:

Tuition and Fees	\$	3085
Application Fee	\$	30
Program Fees	\$	700
Tools/clothing	\$	varies
Books/Supplies	\$	619
TOTAL	\$	4,434+

* Students will be charged an additional fee of \$21 per credit for online/hybrid courses.

GFC MSU ADDITIONAL GRADUATION REQUIREMENT

<u>COURSE</u>	<u>NO.</u>	<u>TITLE</u>	<u>CREDITS</u>	<u>GRADE/SEM</u>
COLS	103	Becoming a Successful Student	1†	_____

FIRST SEMESTER

<u>COURSE</u>	<u>NO.</u>	<u>TITLE</u>	<u>CREDITS</u>	<u>GRADE/SEM</u>
M	191B**	Special Topics: Math for Welding	3†	_____
WLDG	170	Welding and Fabrication I	<u>13†</u>	_____
		Subtotal	16	

SECOND SEMESTER

<u>COURSE</u>	<u>NO.</u>	<u>TITLE</u>	<u>CREDITS</u>	<u>GRADE/SEM</u>
COMX	102	Interpersonal Skills in the Workplace	1+	_____
WRIT	104	Communication Skills in the Workplace	2+	_____
WLDG	270*	Welding Fabrication II	<u>13†</u>	_____
		Subtotal	16	

TOTAL PROGRAM CREDITS – 32~

~ Many students need preliminary math and writing courses before enrolling in the program requirements. These courses may increase the total number of program credits. Students should review their math and English placement before planning out their full program schedules.

† A grade of “C-” or above is required for graduation * Indicates prerequisites needed **Placement in course(s) is determined by placement assessment

Welding Technology & Fabrication Program Admissions Process Spring 2015 Intake Cohort

The Welding Technology & Fabrication Program admissions committee will review completed application packets after March 16, 2015. WLDG cohort courses are restricted entry courses. Only students who have been admitted into the program will be able to enter courses with WLDG prefixes and other cohort courses.

Completed Welding Technology & Fabrication program application packets must be submitted to:

Pam Buckheit, Administrative Assistant
Division of Business, Trades & Technology (Room B116)
Great Falls College Montana State University
2100 16th Avenue South
Great Falls, MT 59405

Note: Applications will be date and time stamped as they are received. Completed applications, that meet the admissions criteria, will be accepted into the program on a first-come, first-served basis. Only complete applications will be considered. See Application Packet & Check-off Sheet for specific requirements for program admission.

Priority:

Priority applicants will be notified of their admission acceptance by April 1, 2015 for Summer 2015 semester entry to the program and by May 15, 2015 for Fall 2015 entry to the program. Applications received after the priority deadline of March 16, 2015 will be considered only if any of the admission positions remain open. Again, the earliest date and time stamps on complete applications will determine admission for any of these remaining openings. *No incomplete applications will be considered until they are completed.*

Dates and Times for Summer and Fall 2015 Cohorts:

The Summer 2015 cohort will meet during the following days and times:

1st semester courses: May 18th to July 28th, Monday through Friday, 7:00 am – 3:30 pm

2nd semester courses: August 24th to December 11th, Monday through Friday, 7:00 am – 1:30 pm

The Fall 2015 afternoon cohort will meet during the following days and times:

1st semester courses: August 24th to December 11th, Monday through Friday, 12 noon – 6:30 pm

2nd semester courses: January 13th to May 6th, Monday through Friday, 12 noon – 6:30 pm

The Fall 2015 evening cohort will meet during the following days and times:

1st semester courses: August 24th to Dec. 11th, Monday through Friday, 5:30 pm – 12 midnight

2nd semester courses: January 13th to May 6th, Monday through Friday, 5:30 pm – 12 midnight

Admission to Great Falls College MSU:

Students must be admitted to the College and be in good academic standing prior to the submission of the Welding Technology program application. Applications will not be reviewed until applicants have been admitted to GFC MSU and have a complete Admissions file.

Acceptance to Welding program requires a completed admissions application, which may be obtained by visiting the campus, calling the College (406) 771-4300 or 1-800-446-2698, or downloading it from the institution's website, www.gfcmsu.edu (select **Admissions & Records** then **Forms** then **Application for Admission**.)

Health Insurance:

All GFC MSU students enrolled for 6 or more credits are required to have health insurance. For students without coverage, GFC MSU offers a program developed especially for students by Blue Cross/Blue Shield of Montana. This plan provides coverage for injuries and illnesses on or off campus. Please contact Student Central for more information. Plan subject to change.

Student Central
Great Falls College MSU
Phone: 406-771-4414

Equal Opportunity Policy:

Great Falls College MSU is committed to the provision of equal opportunity for education, employment, and participation in all College programs and activities without regard to race, color, religion, national origin, creed, service in the uniformed services (as defined in state and federal law), veteran status, gender, age, political ideas, marital or family status, physical or mental disability, genetic information, gender identity, gender expression or sexual orientation.

The College's Equal Opportunity Officers are the Executive Director of Human Resources and the Associate Dean for Student Services, 2100 16th Ave South, Great Falls, MT 59405. Telephone: (406) 771-4300.

Information Regarding Transferable Courses:

General education coursework taken at other education institutions may be designated as equivalent courses for Great Falls College MSU. For a current listing of approved equivalent courses, visit the Transfer Guide under Student Information at:

https://atlas.montana.edu:9001/pls/gfagent/hwzkxfer.p_selstate

If you have additional questions about transferability of courses, send a written request for evaluation to: Registrar, Great Falls College MSU, 2100 16th Avenue South, Great Falls, MT 59405. Please include appropriate course descriptions and official transcripts from former colleges with your request for evaluation.

GREAT FALLS COLLEGE MSU - WELDING TECHNOLOGY & FABRICATION PROGRAM
Summer and Fall 2015 INTAKE
APPLICATION PACKET COVER AND CHECK-OFF SHEET

Name _____

Address _____

City _____ State _____ Zip Code _____

Telephone (Home) _____ (Other) _____

E-Mail Address _____

GFC MSU Student ID Number _____

Please rank your cohort preference (1 through 3, with 1 being your first choice and 3 being your last choice):

_____ Summer 2015 cohort (7:00 am-3:30 pm, MAY 18 – JUL 28 and 7:00 am – 1:30 pm, AUG 24 – DEC 11)

_____ Fall 2015 afternoon cohort (12 noon-6:30 pm, AUG 24 – DEC 11 and JAN 13 – MAY 6)

_____ Fall 2015 evening cohort (5:30 p.m.-12 midnight, AUG 24 – DEC 11 and JAN 13 – MAY 6)

Please note: in order to facilitate processing applications, it will not be possible for students to change cohort choices after submitting this application.

Check-Off List

√	Item
	Complete and submit your Welding Technology & Fabrication Application Packet Cover & Check-off sheet. Personal information must be complete. (page 7-8)
	<p>Good Academic Standing.</p> <ol style="list-style-type: none"> 1. All GFC MSU students must be in Good Academic Standing which means they are not on academic probation OR academic probation continued, OR academic suspension. 2. A student with Good Academic Standing has a cumulative GPA that is greater or equal to 2.0 at GFC MSU. 3. Good Academic Standing will be verified by the Registrar and any applicants, who are not in good academic standing will not be admitted to the program. 4. Currently enrolled students, who are not in Good Academic Standing at time of Welding application submission, will only be eligible for conditional admission if there are intake spots available after acceptance of applicants currently in Good Academic Standing. 5. Applicants are encouraged to check with the Registrar's or Admissions Office to confirm that they are in Good Academic Standing.

	<p>All applicants must have a Complete Admissions File. A completed admissions file includes:</p> <ol style="list-style-type: none"> 1. Completed application to GFC MSU 2. Payment of the \$30 application fee (if applicable) 3. Copies of high school/GED/HiSET transcripts or diplomas 4. Proof of MMR shots 5. Completion of placement testing or submission of official college transcript(s) verifying placement. <p>Complete admissions files will be verified by the Registrar's Office and applicants with incomplete admissions files will not be admitted to the program. Students are encouraged to check with the Admissions Office to confirm that their admissions file is complete.</p>
	<p>Submit a math placement test score or Official College Transcript(s) that shows completion of Math 065 or higher level math. Applicants must have either completed M065, Pre-Algebra, or have a math placement score that places them in M065, Pre-Algebra, or a higher level math course.</p>
	<p>Sign and submit the <i>Statement of Understanding</i> to show your understanding of participating in the mandatory 3-day Welding Success Session that will be held during the first 3 days of your first semester in the program. <i>(page 9)</i></p>
	<p>Sign and submit the <i>Technical Standards</i> <i>(page 10)</i></p>

Note: Turn all application materials in at one time so as not to risk misplacement of any items. Incomplete welding applications will not be reviewed.

Statement of Understanding

Great Falls College MSU Welding Technology & Fabrication Program

The Welding Technology & Fabrication Program is a popular program. We have many more students who want to take the program than our capacity allows. Therefore, it is important that all students who start the program are serious about completing it and are aware of program expectations. With that in mind, all students are required to complete a 3-day **Welding Success Session** during the first 3 days of their first semester in the program.

Specific details of the Welding Success Session are as follows:

- The Welding Success Session will be offered in the welding lab of the Trades building on the Great Falls College campus.
- Welding Success Sessions consist of three 8-hour days. Schedule to be determined.
- 100% attendance for every hour of every day is required. Any student who misses any part of the Welding Success Session will not be allowed to continue the Welding Technology program.
- If any student misses any part of the Welding Success Session, his/her spot in the Welding Technology program will be forfeited and given to the next student on the waiting list.
- Exceptions to the 100% attendance requirement will be extremely rare and must be approved by the Business, Trades, and Technology Division Director.
- All Personal Protective Equipment (PPE) and necessary tools for the welding success session will be provided by the college.

I have read and understand the Welding Success Session attendance requirements above. I realize that if I do not attend every hour of every day of the Welding Success Session, my spot in the program will be forfeited and given to the next student on the waiting list.

Name (print)

GFC MSU Student ID number

Signature

Date

Welding Technology Technical Standards

Students will need to demonstrate the following specific technical functions, with or without reasonable accommodation, in order to progress through and successfully complete the Welding Technology & Fabrication program at Great Falls College MSU.

To successfully complete the Welding program, students must demonstrate their competency in carrying out the tasks necessary for safe and effective practice in the field including:

- Work for prolonged periods while exposed to
 - Extreme noise
 - Extreme heat
 - Sharp tools and materials
 - Electrical equipment
 - Chemicals and toxins
 - Dust and fumes
 - Machinery with moving parts
 - Slippery or uneven surfaces
 - Variations in lighting
- Understand/interpret information from textbooks, handouts, diagrams, charts, and tables.
- Recognize welding terminology and symbols.
- Interpret blueprints and sketches.
- Distinguish shapes, forms, and patterns, including three-dimensional objects.
- Take accurate measurements and do conversions.
- Calculate slopes, circumferences, and decimal equivalents.
- Estimate materials and costs.
- Identify names and uses of tools and machines, survey and select appropriate materials, tools, and equipment for welding work.
- Explain characteristics and uses of different types of metals.
- Describe standard welding methods and practices.
- Follow safety procedures and safely operate necessary tools, equipment, and machinery.
- Explain the proper care of equipment.
- Formulate fabrication plans.
- Perform procedures according to proper specifications.
- Conduct tests of welding work.
- Distinguish indicators of poor vs. quality construction and detect fabrication problems.
- Take precise measurements of 1/16th of an inch.
- Remove and replace metal pieces.
- Position and maneuver in confined spaces
- Perform welding procedures at varying heights.
- Lift and transport equipment and materials.
- Effectively respond to and communicate information from a variety of sources.

I understand that I will be expected to demonstrate competency in the technical standards stated above in order to successfully complete the Welding program.

Student Signature _____ Date _____