

1-2015

## WLDG 145.01: Fabrication Basics

Zachary W. Reddig

*University of Montana - Missoula*, [zachary.reddig@mso.umt.edu](mailto:zachary.reddig@mso.umt.edu)

Let us know how access to this document benefits you.

Follow this and additional works at: <https://scholarworks.umt.edu/syllabi>

---

### Recommended Citation

Reddig, Zachary W., "WLDG 145.01: Fabrication Basics" (2015). *Syllabi*. 3076.  
<https://scholarworks.umt.edu/syllabi/3076>

This Syllabus is brought to you for free and open access by the Course Syllabi at ScholarWorks at University of Montana. It has been accepted for inclusion in Syllabi by an authorized administrator of ScholarWorks at University of Montana. For more information, please contact [scholarworks@mso.umt.edu](mailto:scholarworks@mso.umt.edu).

**THE UNIVERSITY OF MONTANA  
COLLEGE OF TECHNOLOGY  
INDUSTRIAL TECHNOLOGY DEPARTMENT**

**COURSE SYLLABUS**

**COURSE NUMBER AND TITLE:** WLDG 145, Fabrication Basics I & II

**DATE REVISED:** Spring 2011

**SEMESTER CREDITS:** 4

**PREREQUISITES:** WLDG 180- SMAW & OAW, WLDG 187- FCAW, WLDG 150- Layout, WLDG 117- Blueprint

**INSTRUCTOR NAME:** Zachary Reddig

**PHONE NUMBER:** 243-7644

**OFFICE LOCATION:** West Campus, Welding Lab Office

**OFFICE HOURS:** 12:00pm – 1:00 pm or by appointment

**RELATIONSHIP TO PROGRAM(S):**

This class provides theory of operations and skill development with a process that is primary in the fabrication of iron and steel. This experience complements the other welding processes and drawing processes taught in the program to attain a solid, broad based understanding of fabrications as a welder/fitter/machine operator.

**COURSE DESCRIPTION:** This is a semester course that is set up as two half-semester classes. The first section class is given as a survey of different practices. This will introduce the student to various machines used for shaping, cutting, work-holding, and jig-making. Students will be required to take a project from a blueprint and fabricate it according to specifications. The second section will be able to formulate the sequence of making a project from a blueprint to a finished product.

**STUDENT PERFORMANCE OUTCOMES:**

Upon completion of this course, the student will be able to:

- Demonstrate by written exam, the theory and safe operation of equipment.
- Demonstrate by practical exam making a project from a blueprint to a finished product.

**STUDENT PERFORMANCE ASSESSMENT METHODS AND GRADING PROCEDURES:**

**NOTICE!** Be aware that each course listed in your degree or certificate program must be completed with a C or better to graduate or receive a certificate.

**GRADING:**

Practical Hands on Welding Tests.....	35%	A = 90% - 100%
Written tests.....	30%	B = 89% - 80%
Quizzes.....	10%	C = 79% - 70%
Completed Notebook.....	20%	D = 69% - 60%
Professionalism.....	05%	F = 59% or less

## **STUDENT PERFORMANCE ASSESSMENT METHODS AND GRADING PROCEDURES Continued:**

**Written Exam:** Exams are derived from reading assignments given in class, homework, notes from class video presentations, etc. No make-up of exams, assignments, or quizzes will be allowed if proper notification wasn't given for absence.

**Lab Work:** these tests are derived from reading assignments given in class (homework), notes from class lectures, video presentations, etc. Class labs are building 2 small class projects and the major capstone project for the second half of the semester. Grading for the second half is also given a 20 point daily attendance grade for each scheduled lab day of class.

**Quizzes** are composed of your name/date and three questions. Name and date are worth 25%. Each question is worth 25%. To receive credit for questions they must be written out and correctly answered. Quizzes may be given at any time during the course scheduled meeting time. No make-up of exams, assignments, or quizzes will be allowed if proper notification wasn't given for absence.

**Completed Notebook** is a compilation of class notes and handouts. To receive the full 5% the notebook must be neat and organized. It must also be contained or be found contiguous within a three ring binder.

**Professionalism** is defined as a combination of one's attitude, motivation, participation, organization and willingness to maintain a clean work environment in the lab.

**No make-up of written tests, written assignments or quizzes.**

**ATTENDANCE POLICY:** Attendance is not taken, although you are required to be in attendance to successfully complete the course.

### **OTHER POLICIES:**

1. **Safety** is required to be practiced at all times. Disregard of safe practices, endangering yourself or others may result in you being denied access to the Lab area.
2. **Eye protection** is mandatory at all times in the Lab area.

**ACADEMIC INTEGRITY:** All students must practice academic honesty. Academic misconduct is subject to an academic penalty by the course instructor and/or a disciplinary sanction by the University. All students need to be familiar with the Student Conduct Code. The Code is available for review online at <http://www.umt.edu/SA/VPSA/index.cfm/page/1321>

**DISABILITY ACCOMMODATION:** Eligible students with disabilities will receive appropriate accommodations in this course when requested in a timely way. Please contact me after class or in my office as referred to at the beginning of the syllabus. Please be prepared to provide a letter from your DSS coordinator. For more information, visit the Disability Services website at <http://www.umt.edu/dss> or call 406-243

**REQUIRED TEXTBOOK:** No required textbook for this class, reading materials are pulled from various resources and posted on moodle.

### **SUGGESTED REFERENCE MATERIALS:**

The Fabricator, Available at the COT library.