Course Title: Metal Prep Equipment, Operation & Safety
Semester Course Prefix and Number: WELD 1234
Old Quarter Course Prefix and Number: 
Submitted By: Eugene Stitt
Approval Date: Feb 2020
Revision Date: 

Number of Credits: 1
Number of Lecture Credits: 0.5
Number of Lab Credits: 0.5
Number of Lab Hours: 1
Number of Studio/Demonstration/Internship Credits: 

Semester(s) Offered: Fall
Class Size: 24

Negotiated by AASC on: (date)

**Course Purpose Code:**
- 0 – Developmental Courses
- 1 – Non-transferable
- ✓ 2 – Technical course related to career programs
- 3 – College course which has the primary goal of applying certain concepts (e.g. vocal ensemble)
- 4 – Other college course not considered a part of MNTC (e.g. computer science, health, physical education)
- 5 – Course which is intended to fulfill the Minnesota Transfer Curriculum (MNTC) requirements or intended for transfer.
- 6 – Continuing Education/Customized Training specialized credit course (not occurring in 0-5)

**Catalog Description:**
The purpose of this course is to introduce the student to the equipment and safety practices necessary to prepare metals satisfying joint design and joint testing requirements as described by the American Welding Society. The student will become familiar with the use of equipment in a safety focused environment. Welding terminology and typical job communications will be covered.

**Prerequisites and/or recommended entry skills/knowledge:**
Course Prerequisite(s): None
Reading Prerequisite: 
Composition Prerequisite: 
Mathematics Prerequisite: 

**Career Programs and Transfer Majors Accessing this Course:**
Welding, Welding Engineering, any trades/technical area utilizing welding

**Minnesota Transfer Curriculum Goal(s) partially met by this course if applicable:**
(Notes: No more than two goals may be met by any one course. AASC review and the Chief Academic Officer's approval are required.)
0. ✓ None
1. Communications
2. Critical Thinking
3. Natural Sciences
4. Mathematical/Logical Reasoning
5. History and the Social and Behavioral Sciences
6. The Humanities and Fine Arts
7. Human Diversity
8. Global Perspectives
9. Ethical and Civic Responsibility
10. People and the Environment
**Learning Outcomes:** (including any relevant competencies listed in the Minnesota Transfer Curriculum)

Upon completion of this course, the student will be able to:
- Demonstrate the safe operation of equipment related to metal preparation which can include, but not limited to: Iron worker, shear, plate roller, horizontal band saw, chop saw, cold saw, hand drill, angle grinder, hydraulic press, die grinder, and bench grinder.
- Demonstrate how to replace consumable items (blades, wheel, bits, etc.).
- Demonstrate general maintenance of the aforementioned equipment.

**Student Assessment Methods May include:**
Written tests/exams and/or observation of practical skills

**Use of Instructional Technology May Include:** (includes software, interactive video and other instructional technologies):
May use any or all of the following: Videos, PowerPoint presentations, and/or Internet

**Additional Special Information:** (special fees, directives on hazardous materials, etc.)

**Transfer Information:** (Please list colleges/majors that accept this course in transfer.)

**Affiliated Mesabi Range College Courses and Programs:**

**Approvals:**

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**Distribution:** Original – Instructional Services
**Copies:** Transfer Specialist, Originating Faculty Member, Records
**Revised:** February 2019