MINNESOTA WEST COMMUNITY & TECHNICAL COLLEGE
COURSE OUTLINE

Faculty is required to have the outline submitted to the Academic Affairs Office. The course outline is the form used for approval of new courses by the Academic Affairs and Standards Council.

DEPT. WELD COURSE NUMBER: 2130

NUMBER OF CREDITS: 3

COURSE TITLE: Fabrication and Repair I

CATALOG DESCRIPTION: This course covers basic fabrication techniques as they relate to product manufacturing, maintenance and repair. Topics include bending, forming, shearing, simple punching operations, flat pattern layouts, basic jig and fixture application, and assembly methods.

AUDIENCE: Open

FULFILLS MN TRANSFER CURRICULUM AREA(S) (Leave blank if not applicable)

Area: by meeting the following competencies:
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PREREQUISITES OR NECESSARY ENTRY SKILLS/KNOWLEDGE:

LENGTH OF COURSE :

THIS COURSE IS USUALLY OFFERED:
Every other year [ ] fall [ ] spring [ ] summer [ ] undetermined [ ]

Four goals are emphasized in course at Minnesota West Community & Technical College:

1) ACADEMIC CONTENT: The academic objectives of this course are:
   a. Basic fabrication techniques as they relate to product manufacturing.
   b. Basic fabrication techniques as they relate to maintenance and repair.
   c. Safety in bending, forming, shearing and simple punching operations.

2) THINKING SKILLS: This course will help students improve the effectiveness of their thinking skills through:
   a. Developing pattern layouts, basic jig and fixture application, and assembly methods.

3) COMMUNICATIONS SKILLS: This course will help students improve their oral and written communication skills through:
   a.
   b.
4) HUMAN DIVERSITY: This course will help students recognize, understand, and appreciate human diversity through:
   a. 
   b. 

TOPICS TO BE COVERED: The basic fabrication techniques as they relate to product manufacturing, maintenance and repair.

LIST OF EXPECTED COURSE OUTCOMES: The student will put to practical use tools, layout principles, and blueprints related to fabrication of metal parts.

LEARNING/TEACHING TECHNIQUES used in the course are:

- Collaborative Learning
- Student Presentations
- Creative Projects
- Lectures
- Demonstrations
- Lab
- Problem Solving
- Interactive Lectures
- Films/Videos/Slides
- Individual Coaching
- Other (describe below)

ASSIGNMENTS AND ASSESSMENTS FOR THIS CLASS INCLUDE:

- Reading
- Oral Presentations
- Textbook Problems
- Group Problems
- Other (describe below)
- Tests
- Worksheets
- Papers
- Term Paper
- Individual Projects
- Collaborative Projects
- Portfolio

EXPECTED STUDENT LEARNING OUTCOMES:

a. The student will have an understanding of the basic fabrication techniques as they relate to product manufacturing, maintenance and repair.

b. The student will comprehend safety in bending, forming, shearing and simple punching operations.

The information in this course outline is subject to revision

Veteran Services: Minnesota West is dedicated to assisting veterans and eligible family members in achieving their educational goals efficiently. Active duty and reserve/guard military members should advise their instructor of all regularly scheduled military appointments and duties that conflict with scheduled course requirements. Instructors will make every effort to work with the student to identify adjusted timelines. If you are a veteran, please contact the Minnesota West Veterans Service Office.

To receive reasonable accommodations for a documented disability, please contact the campus Student Services Advisor or campus Disability Coordinator as arrangements must be made in advance. In addition, students are encouraged to notify their instructor.

This document is available in alternative formats to individuals with disabilities by contacting the Student Services Advisor or by calling 800-658-2330 or via your preferred Telecommunications Relay Service.

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