

MESABI RANGE COMMUNITY & TECHNICAL COLLEGE

Course Outline

Course Title: Template Development Submitted By: D. Mroz
Semester Course Prefix and Number: Weld 2253 Approval Date:
Old Quarter Course Prefix and Number: Weld 2253 Revision Date: 3/18/10

Number of Credits: 2 Number of Lecture Credits: 2
Semester(s) Offered: Sp Number of Lab Credits: Number of Lab Hours:
Class Size: 24 Number of Studio/Demonstration/Internship Credits:
Negotiated by AASC on:
(date)

Course Purpose Code:

- 0 - Developmental Courses
x 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.
9 - Continuing Education/Customized Training specialized credit course (not occurring in 0-5)

Catalog Description:

The purpose of this course is to acquire the skills necessary to develop templates used for pipe joint geometry layout and fabrication. Duct layout for welding will also be preformed.

Prerequisites and/or recommended entry skills/knowledge:

Course Prerequisite(s): A 2.0 in Weld 1255 or equivalent, or consent of instructor.
Reading Prerequisite:
Composition Prerequisite:
Mathematics Prerequisite:

Career Programs and Transfer Majors Accessing this Course:

Any career program utilizing welding: IT degree, IT Management, Welding Management,

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. Curriculum Committee review and the Chief Academic Officer's approval are required.)

- 0. x 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:

- Apply fundamental geometry and trigonometry principles as applied to layout.
- Use principles of geometry and trigonometry in calculations.
- Demonstrate skill in layout drawing.
- Calculate angle line and grade.
- Use basic layout tools.
- Reference tables and charts.
- Convert metric, decimal and fractions as prints demand.
- Develop systematic procedures for template development.

Student Assessment Methods:

Students will be assessed by class participation, accuracy of drawings, craftsmanship, quizzes and tests.

Use of Instructional Technology: (includes software, interactive video and other instructional technologies):

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

The student will be required to provide some drafting and drawing materials.

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

Course Outline Revision History:

Last revised may 2010. The course title has changed from Template Development II to Template Development. This course is a combination of Template Development I and II. It has been increased from a 1 credit lecture to a 2 credit lecture.

Approvals:

Body	Representative Signatures	Date
Curriculum Committee		
Faculty Association		
Academic Affairs Standards Committee		
Chief Academic Officer		

Distribution: Original – Instructional Services
Copies: Transfer Specialist, Originating Faculty Member, Records
Revised: March 2010