

MESABI RANGE COLLEGE

Course Outline

Course Title: CNC Programming and Cutting

Submitted By: Randall Washenesky

Semester Course Prefix and Number: WELD 2265

Approval Date:

Old Quarter Course Prefix and Number:

Revision Date:

Number of Credits: 3

Number of Lecture Credits: 2.5

Semester(s) Offered: Fall

Number of Lab Credits: .5 **Number of Lab Hours:** 1

Class Size: 24

Number of Studio/Demonstration/Internship Credits:

Negotiated by AASC on:
2/9/16

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.

9 – Continuing Education/Customized Training specialized credit course (not occurring in 0-5)

Catalog Description:

This course provides studies in CNC programming and cutting commonly done in fabrication shops.

Prerequisites and/or recommended entry skills/knowledge:

Course Prerequisite(s):

Reading Prerequisite:

Composition Prerequisite:

Mathematics Prerequisite:

Career Programs and Transfer Majors Accessing this Course:

Welding technicians and applied welding engineering.

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

6. The Humanities and Fine Arts

1. Communications

7. Human Diversity

2. Critical Thinking

8. Global Perspectives

3. Natural Sciences

9. Ethical and Civic Responsibility

4. Mathematical/Logical Reasoning

10. People and the Environment

5. History and the Social and Behavioral Sciences

Learning Outcomes: (including any relevant competencies listed in the Minnesota Transfer Curriculum)

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

- Program CNC burning tables.
- Operate CNC burning tables.
- Efficiently use materials in regard to burning activities.
- Convert images for use in CNC burning system.
- Draw and edit in PlasmaCam software.

Student Assessment Methods: Quizzes, test and practical assignments.

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

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:

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

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