Course Outline

Course Title: Elements of mechanics – Equipment Operation
Submitted By: Waldorf
Semester Course Prefix and Number: IMT 1237
Old Quarter Course Prefix and Number:

Number of Credits: 2
Number of Lecture Credits: 1
Number of Lab Credits: 1
Number of Lab Hours: 2
Number of Studio/Demonstration/Internship Credits:

Semester(s) Offered: 35
Class Size:

Catalog Description:
The main purpose of this course is to introduce the student to simple machines, how they operate, and how they are used in combination to become compound machines that are used in industry. The student will also learn the math and measuring skills required when dealing with the elements of the mechanics and learn some of the equipment repair procedures as in found in industry. (This portion of the course is dependent upon equipment availability).

Prerequisites and/or recommended entry skills/knowledge:
Course Prerequisite(s):
Reading Prerequisite:
Composition Prerequisite:
Mathematics Prerequisite:

Career Programs and Transfer Majors Accessing this Course:

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:

- Explain and perform necessary math functions
- Identify simple machines – six types
- Calculate mechanical advantages of simple machines

Student Assessment Methods:

Tests

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

Hand-outs

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
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