MESABI RANGE COLLEGE

Course Outline

Course Title: Hydraulic Basics

Submitted By: John Schweiberger

Semester Course Prefix and Number: IMT 1247

Approval Date: 

Old Quarter Course Prefix and Number:

Revision Date: 1/16/2020

Course Purpose Code:

0 – Developmental Courses  
1 – Non-transferable  
X 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: This course covers the basic use of hydraulic components used in industry. The student will learn how these components are used in a variety of applications. The student will also learn math, which is needed in this type of application.

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. 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:

- Explain and perform necessary math functions
- Familiarization with the hydraulic trainer
- Demonstrate Cylinder control
- Describe pressure reducing valves
- Demonstrate hydraulic safety procedures

**Student Assessment Methods May Include:**
Hands on performance tests

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

**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:**

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**Distribution:** Original – Instructional Services

**Copies:** Transfer Specialist, Originating Faculty Member, Records

**Revised:** February 2019