HIBBING COMMUNITY COLLEGE
COURSE OUTLINE

COURSE TITLE & NUMBER: Hydraulics 3: DSL2536
CREDITS: 4 (Lec 2/Lab 2)
PREREQUISITES: Hydraulics 2: DSL 1519 with a minimum grade of “C”

CATALOG DESCRIPTION:
Heavy Equipment Hydraulics 3 Covers the fundamentals of trouble shooting and repair of hydraulic systems

OUTLINE OF MAJOR CONTENT AREAS:
1. Pascal’s Law.
2. Load sensing hydraulic system
3. Overview of maintenance procedures
4. Overview of fluid cleanliness
5. Component repair and replacement

COURSE GOALS/OBJECTIVES/OUTCOMES:
1. Students will understand Pascal’s Law.
2. Students will describe a basic but complete closed center load-sensing hydraulic system.
3. Students will demonstrate familiarity with and practice good hydraulic maintenance/safety practices.
4. Students will understand ISO cleanliness code principles.
5. Students will understand the procedures to properly remove and replace hydraulic components.

MNTC GOALS AND COMPETENCIES MET:
N/A

HCC COMPETENCIES MET:
Working Productively and Cooperatively
Thinking Creatively and Critically

STUDENT CONTRIBUTIONS:
Students are expected to prepare for class, attend class, attend all lectures and labs, participate in all class activities, complete work on time and request assistance if needed.

STUDENT ASSESSMENT SHALL TAKE PLACE USING INSTRUMENTS SELECTED/DEVELOPED BY THE COURSE INSTRUCTOR.

Curriculum Committee Approval Date: May 7, 2019
AASC APPROVAL DATE: July 24, 2019
REVIEW DATE: July 2024