HIBBING COMMUNITY COLLEGE  
COURSE OUTLINE

COURSE TITLE & NUMBER: Industrial Technology Math Lab 2: IST 1450  
CREDITS: 3 (1 LEC / 2 LAB )  
PREREQUISITES: IST 1350 Industrial Technology Math Lab 1

CATALOG DESCRIPTION:  
Industrial Technology Math Lab 2 builds upon the skills learned in Math Lab I with continued industry-specific, lab-based mathematics work. Students will apply critical thinking and problem solving as they solve real-world mathematical applications. Topics include advanced mathematic concepts, measurement, blueprint reading and sketching, and rigging.

OUTLINE OF MAJOR CONTENT AREAS: 
1. Advanced math concepts  
2. Plane Geometry  
3. Solid Geometry  
4. Triangle Trigonometry  
5. Measurement  
6. Blueprint reading  
7. Sketching  
8. Rigging-related mathematics

COURSE GOALS/OBJECTIVES/OUTCOMES: 
1. Students will demonstrate appropriate attitudes and behavior: honesty, responsibility, respect and initiative.  
2. Students will identify occupational safety hazards and follow appropriate safety precaution.  
3. Students will exhibit safe housekeeping procedures in the lab.  
4. Students will work cooperatively and understand the roles of leadership and supervision.  
5. Students will demonstrate knowledge and skills in using the language, principles, and operations of introductory algebra and trigonometry.

MNTC GOALS AND COMPETENCIES MET:  
N/A

HCC COMPETENCIES MET:  
Working Productively and Cooperatively  
Communicating Clearly and Effectively

STUDENT ASSESSMENT SHALL TAKE PLACE USING INSTRUMENTS SELECTED/DEVELOPED BY THE COURSE INSTRUCTOR.
ADDITIONAL INFORMATION: None

Curriculum Committee Approval Date: March 13, 2018

AASC APPROVAL DATE: March 21, 2018
REVIEW DATE: March 2023