HIBBING COMMUNITY COLLEGE
COURSE OUTLINE

COURSE TITLE & NUMBER: Industrial Technology Math Lab 1: IST 1350
CREDITS: 3 (1 Lec / 2 Lab)
PREREQUISITES: Placement Exam or "C" or better in Math 0921: Fundamental Mathematics

CATALOG DESCRIPTION:
Industrial Technology Math Lab 1 presents essential math concepts as they relate to industrial technologies through lab-based work. Students will learn critical thinking and problem-solving working through industry-specific examples and actual applications. Topics include essential math concepts, 2D and 3D measurement, and blueprint reading and sketching.

OUTLINE OF MAJOR CONTENT AREAS:
1. Introductory Math Concepts
2. Measurement
3. Introductory Blueprint Reading
4. Introductory Sketching

COURSE GOALS/OBJECTIVES/OUTCOMES:
1. Students will demonstrate appropriate attitudes and behaviors: honesty, responsibility, respect and initiative.
2. Students will identify occupational safety hazards and follow appropriate safety precautions.
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 use techniques and information learned in class to critically and logically complete lab-based mathematics applications.
6. Students will demonstrate knowledge and skills in using the language, principles, and operations of introductory algebra.
7. Students will apply a variety of strategies in solving math-related problems.
8. Students will integrate knowledge of introductory algebra and trigonometry as a basis for further study in the industrial technology systems program.
9. Students will utilize print reading and machine shop mathematics.

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