HIBBING COMMUNITY COLLEGE
COURSE OUTLINE

COURSE TITLE & NUMBER: Electrical Math Applications: ELM 1005
CREDITS: 2 (2 Lec / 0 Lab)
PREQUISITES: None

CATALOG DESCRIPTION:
Electrical Math includes basic math, formula solutions, and technical applications needed to succeed in the electrical field.

OUTLINE OF MAJOR CONTENT AREAS:
1. Fractions and Decimals
2. Metric Prefixes
3. Powers and Roots
4. Problem and Equation Solving
5. Signed Numbers and Signed Exponents
6. Scientific and Engineering Notation
7. Basic Algebra Solutions
8. Basic Right Triangle Trigonometry
9. Percentages
10. Proportions
11. Units and Conversion

COURSE GOALS/OBJECTIVES/OUTCOMES:
1. Students will apply problem solving techniques.
2. Students will perform assigned tasks.
3. Students will maintain active class participation.
4. Students will identify, perform, and solve electrical problems, calculations, and formulas.
5. Students will solve multiple operation formulas.
6. Students will manipulate electrical formulas.

MNTC GOALS AND COMPETENCIES MET:
N/A

HCC COMPETENCIES MET:
Thinking Creatively & Critically
Social / Civic Responsibility
STUDENT CONTRIBUTIONS:
Students are expected to attend all lectures and working sessions, participate in class activities, participate and implement input into class discussions, and hand in outside assignments when due. Attendance is critical.

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

ADDITIONAL INFORMATION:
ELM 1005 requires students to maintain a minimum of 95% attendance. Attendance below 95% may be made up by completing a one credit make-up class. This credit must be pre-approved by the course instructor. Three less than full days (tardy or leaving early) will equal one full day absence. Without 95% attendance and not taking the one credit make-up class will result in retaking the course.

Scientific Calculator is required.

Course content may be modified to address current needs. Content goals may not be addressed in order.

AASC APPROVAL DATE: November 15, 2017
REVIEW DATE: November 2022