HIBBING COMMUNITY COLLEGE
COURSE OUTLINE

COURSE TITLE & NUMBER: DSL 1538 Electronics/Electrical Systems
CREDITS: 3 (Lec 2/Lab 1)
PREREQUISITES: Pass Electronics/Electrical Systems 1: DSL1537 with a minimum grade of “C”

CATALOG DESCRIPTION:
Electronics/Electrical Systems 2 will focus on lighting, accessory and control systems, electrical schematics/diagrams, diagnostics, and troubleshooting.

OUTLINE OF MAJOR CONTENT AREAS:
1. Lighting
2. Electrical Schematics/Diagrams
3. SAE computer Can-Bus standards
4. Diagnostics, Systems troubleshooting

COURSE GOALS/OBJECTIVES/OUTCOMES:
1. Students will identify basic components and demonstrate the sequence of operation of the components that affect the systems overall operation.
2. Students will demonstrate the ability to properly disassemble, test, reassemble replace or repair components according to manufactures service publications.
3. Students will demonstrate the ability to identify, trace various circuits using wiring diagrams/schematics.
5. Students will demonstrate how to diagnose electrical systems using OEM technical manuals/service information to perform operational checks and troubleshooting.

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: March 5, 2019

AASC APPROVAL DATE: March 20, 2019
REVIEW DATE: March 2024