

**HIBBING COMMUNITY COLLEGE  
COURSE OUTLINE**

**COURSE NUMBER & TITLE:** MCT 1557 Communication Cabling & Termination

**CREDITS:** 2 (0 Lec / 2 Lab)

**PREREQUISITES:** None

**CATALOG DESCRIPTION:**

Communication Cabling & Termination provides instruction with hands on training in copper cabling and terminations along with fiber optics splicing and terminations. Individuals will be prepared to meet the Certified Fiber Optic Technician (CFOT) exam requirements and learn how to install and terminate Cat 3/5/5e/6 properly per EIA/TIA standards.

**OUTLINE OF MAJOR CONTENT AREAS:**

- I. Copper Cables
- II. Fiber Optics
- III. Connectors & Interconnection Hardware
- IV. Networks
- V. System-Level Cabling
- VI. Installing Cabling System
- VII. Certifying the Cabling System
- VIII. Documenting and Administering the Installation
- IX. Residential Cabling Systems

**COURSE OUTCOMES/OBJECTIVES/GOALS:**

Students will

1. observe how “noise” can affect a network.
2. explain impedance, attenuation, return loss & propagation.
3. demonstrate the use of twisted pair cables.
4. describe laser and led’s.
5. demonstrate copper cable terminations.
6. demonstrate fiber optic connectors.
7. analyze patch panels.
8. explain different network topologies.
9. interpret cable specifications.
10. troubleshoot fiber.

**MNTC GOALS AND COMPETENCIES MET:**

N/A

**HCC COMPETENCIES MET:**

Working Productively and Cooperatively  
Communicating Clearly and Effectively

**STUDENT CONTRIBUTIONS:**

The student is expected to prepare for classes, attend classes, attend all lectures and labs, participate in all class activities, complete everything on time, and request assistance if needed.

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

**SPECIAL INFORMATION (SPECIAL FEES, DIRECTIVES ON HAZARDOUS  
MATERIALS, ETC.)**

<b>AASC APPROVAL DATE:</b> April 16, 2014
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<b>REVIEW DATE:</b> April 2019
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