HIBBING COMMUNITY COLLEGE
COURSE OUTLINE

COURSE TITLE & NUMBER:  ITNS 2560: Wireless Network Administration
CREDITS:  3 (Lec 2 / Lab 1)
PREREQUISITES:  None

CATALOG DESCRIPTION:

Wireless Network Administration training course offers detailed instruction on the foundation concepts and technologies of wireless data networking. Students will be trained in Site Survey, Hardware Installation, LAN Security, Antenna Design, and Troubleshooting. Upon completion of the Wireless Network Administration course, students will be prepared to pass the CWNA Certification Exam (Exam #PW0-100) at Prometric or Vue testing centers.

OUTLINE OF MAJOR CONTENT AREAS:

1. Radio Frequency (RF) Fundamentals
2. Spread Spectrum Technologies
3. Hardware Installation, Configuration, Management
4. Antennas and Accessories
5. Organizations and Standards
6. 802.11 Network Architecture
7. Physical and MAC Layers
8. Wireless LAN Security
9. Site Surveying
10. Troubleshooting Wireless LANs

COURSE OUTCOMES/OBJECTIVES/GOALS:

1. Students will observe co-location and throughput analysis.
2. Students will demonstrate principles of antennas.
3. Students will explain RF behavior.
4. Students will troubleshoot Access Points.
5. Students will describe available security solutions.
6. Students will describe security recommendations.
7. Students will explain Installation planning.

HCC CORE COMPETENCIES MET:
Working Productively and Cooperatively
Thinking Creatively and Critically

STUDENT CONTRIBUTION:
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.
HCC COMPETENCIES MET:

1) Working Productively and Cooperatively
2) Communicating Clearly and Effectively
3) Thinking Creatively and Critically
4) Social Responsibility
5) Value Self

STUDENT CONTRIBUTIONS:
Each student is expected to spend at least two (2) hours per week outside of class preparing for each lecture period and one (1) hour of outside study per week preparing for each lecture session. Attendance is crucial in this class.

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