

HIBBING COMMUNITY COLLEGE COURSE OUTLINE

COURSE NUMBER & TITLE: MCT 1500: i-Net+

CREDITS: 3 (3 Lec / 0 Lab)

PREREQUISITES: CSCI 1350: Using and Understanding the Internet or a working knowledge of a web browser.

CATALOG DESCRIPTION:

i-Net+ covers Internet basics, Internet clients, development, networking, security, and business concepts. I-Net= also covers protocols necessary for devices to connect to the Internet and cloud storage. i-Net+ emphasizes vendor-neutral TCP/IP concepts.

OUTLINE OF MAJOR CONTENT AREAS:

- I. Networking basics
- II. Internet basics
- III. Protocols
- IV. Servers and their functions
- V. Internet clients
- VI. Client configuration and use
- VII. Internet security
- VIII. Internet development
- IX. Internet design
- X. Internet troubleshooting

COURSE GOALS/OBJECTIVES/OUTCOMES:

Student will

1. describe a URL, its functions and components, different types of URLs, and use of the appropriate type of URL to access a given type of server.
2. describe the concept of caching and its implications.
3. describe different types of search indexes – static index/site map, keyword index, full text index.
4. explain the function of patches and updates to client software and associated problems.
5. describe the differences between popular client-side and server-side programming languages.
6. demonstrate the ability to create HTML pages.
7. describe Internet domain names and DNS.
8. describe the nature, purpose, and operational essentials of TCP/IP.

9. describe how various protocols or services apply to the function of a mail system, Web system, and file transfer system.
10. describe various types of Internet bandwidth technologies (link types).
11. describe various types of suspicious activities.
12. describe access security features for an Internet server (e.g., email server, Web server).
13. explain the issues involved in copyrighting, trade marking, and licensing.
14. identify the issues related to working in a global environment.
15. define e-commerce terms and concepts.

STUDENT CONTRIBUTIONS:

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

MNTC GOALS AND COMPENCIES MET:

N/A

HIBBING COMMUNITY COLLEGE COMPETENCIES MET:

Working Productively and Cooperatively
Communicating Clearly and Effectively

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

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

AASC APPROVAL DATE: April 16, 2014

REVIEW DATE: April 2019

MCT1500:so
041614