

Syllabus

NET 125 Introduction to NET+ 3 Credit Hours Revision Date: 05/13/2022

Department:

Computer Support Technology

Course Description:

This Course is intended to introduce the student to various networking concepts and technologies for students interested in becoming network administrators. Safety and proper tool usage will be reinforced. Key topics include protocols, topologies, hardware, client and server configuration, network services, and network security. In addition, the student will be given hands-on knowledge, requiring the student to thoroughly understand configuration, troubleshooting, and maintenance of networks.

Course Competencies:

The learning outcomes and competencies detailed in this syllabus meet or exceed the learning outcomes and competencies specified by the Kansas Core Outcomes Groups for this course as approved by the Kansas Board of Regents.

Upon completion of the course, the student should be able to:

- 1. Define basic network concepts
- 2. Identify and assemble network media and connectors
- 3. Install and configure wireless networks and security
- 4. Identify and explain networking protocols
- 5. Identify and explain WAN Transmission Technologies
- **6.** Employ network security on the network
- 7. Demonstrate proper troubleshooting and optimization of the network

Course Content:

- A. Introduction to Networking
- B. Infrastructure and Documentation
- C. Addressing
- D. Protocols
- E. Cabling
- F. Wireless Networking
- G. Network Architecture
- H. Segmentation
- I. Wide Area Networking
- J. Risk Management
- K. Security in Network Design
- L. Performance and Recovery

Learning Assessments:

Competencies will be assessed by assignments, case problems, quizzes, chapter tests, hands-on projects, lab assignments, a midterm test, and a final test. The test can be in the objective format or in a problem solving format.

Instructional Materials:

Textbooks: Andrews, J., Dean, T., West, J. (2022). *Network+ Guide to Networks*, (9th ed.). Course Technology ISBN 978-0357508138

Guidelines for Requesting Accommodations Based on Documented Disability or Medical Condition

It is the intention of Highland Community College to work toward full compliance with the Americans with Disabilities Act, to make instructional programs accessible to all people, and to provide reasonable accommodations according to the law.

Students should understand that it is their responsibility to self-identify their need(s) for accommodation and that they must provide current, comprehensive diagnosis of a specific disability or medical condition from a qualified professional in order to receive services. Documentation must include specific recommendations for accommodation(s). Documentation should be provided in a timely manner prior to or early in the semester so that the requested accommodation can be considered and, if warranted, arranged.

In order to begin the process all students **must** complete the "Disabilities Self-Identification Form" on our <u>Disability Services</u> website.

This form can also be accessed at the Highland Community College homepage under Students Services/Student Resources/Disability Service or by contacting the Disabilities Coordinator.

A Note on Harassment, Discrimination and Sexual Misconduct

Highland Community College seeks to assure all community members learn and work in a welcoming and inclusive environment. Title VII, Title IX, and College policy prohibit harassment, discrimination and sexual misconduct. Highland Community College encourages anyone experiencing harassment, discrimination or sexual misconduct to talk to report to the Vice President for Student Services, the Human Resources Director or complete an online report about what happened so that they can get the support they need and Highland Community College can respond appropriately.

There are both confidential and non-confidential resources and reporting options available to you. Highland Community College is legally obligated to respond to reports of sexual misconduct, and therefore we cannot guarantee the confidentiality of a report, unless made to a confidential resource. Responses may vary from support services to formal investigations. As a faculty member, I am required to report incidents of sexual misconduct and thus cannot guarantee confidentiality. I must provide our Title IX coordinator with relevant details such as the names of those involved in the incident. For more information about policies and resources or reporting options, please review our <u>Equity Grievance Policy</u>.