

JEFFERSON COLLEGE

COURSE SYLLABUS

CIS147

NETWORKING I

4 Credit Hours

Revised by: Douglas Hale

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CIS147 Networking I

I. CATALOGUE DESCRIPTION

- A. Pre-requisite/Co-requisite: Reading Proficiency
- B. 4 Credit Hours
- C. Networking I provides instruction in what computer networks are and why they are useful. Activities include designing and building a basic Local Area Network (LAN). Curriculum aligns directly with CompTIA Network+ exam objectives.
(S)

II. EXPECTED LEARNING OUTCOMES/CORRESPONDING ASSESSMENT MEASURES

Explain basic networking concepts to include the OSI and TCP/IP models, networking devices, IP addressing, and common networking protocols	Quizzes Exams Certification Exam
Implement and troubleshoot basic network installation and configuration tasks	Quizzes Exams Hands-On Exercises Certification Exam
Compare and configure network media and topologies	Quizzes Exams Hands-On Exercises Certification Exam
Demonstrate network management practices, network security practices, and proper troubleshooting methodology	Quizzes Exams Hands-On Exercises Certification Exam

III. OUTLINE OF TOPICS

- A. Networking Basics
- B. Cables and Connectors
- C. Networking Devices
- D. Ethernet
- E. Network Implementation

- F. Wireless Networking
- G. Wide Area Networks (WANs)
- H. Network Security
- I. Network Management
- J. Troubleshooting

IV. METHOD(S) OF INSTRUCTION

- A. Lecture
- B. Group Collaboration
- C. Hands-On Exercises

V. REQUIRED TEXTBOOK(S)

TestOut, *LabSim for Network Pro Activation Code*, (Current Edition), TestOut Corporation

VI. REQUIRED MATERIALS

USB Removable Storage Device (Flash Drive)

VII. SUPPLEMENTAL REFERENCES

None

VIII. METHODS OF EVALUATION

- A. Participation: 15%
- B. Hands-on Exercises: 40%
- C. Quizzes/Exams: 40%
- D. Certification Exam (Pass/Fail): 5%

IX. ADA AA STATEMENT

Any student requiring special accommodations should inform the instructor and the Coordinator of Disability Support Services (Technology Center 101; phone 636-481-3169).

X. ACADEMIC HONESTY STATEMENT

All students are responsible for complying with campus policies as stated in the Student Handbook (see College Website <http://www.jeffco.edu>).

XI. ATTENDANCE STATEMENT

Regular and punctual attendance is expected of all students. Any one of these four options may result in the student being removed from the class and an administrative withdrawal being processed: (1) Student fails to begin class; (2) Student ceases participation for at least two consecutive weeks; (3) Student misses 15 percent or more of the coursework; and/or (4) Student misses 15 percent or more of the course as defined by the instructor. Students earn their financial aid by regularly attending and actively participating in their coursework. If a student does not actively participate, he/she may have to return financial aid funds. Consult the College Catalog or a Student Financial Services representative for more details.

XII. OUTSIDE OF CLASS ACADEMICALLY RELATED ACTIVITIES

The U.S. Department of Education mandates that students be made aware of expectations regarding coursework to be completed outside the classroom. Students are expected to spend substantial time outside of class meetings engaging in academically related activities such as reading, studying, and completing assignments. Specifically, time spent on academically related activities outside of class combined with time spent in class meetings is expected to be a minimum of 37.5 hours over the duration of the term for each credit hour.