

Network Systems Administration Department
Business/Public Service Division
GREENVILLE TECHNICAL COLLEGE

COURSE SYLLABUS

Course Number: IST 204

Course Title: Cisco Troubleshooting

Lecture hours per week: 3.0 **Semester credit hours:** 3.0

Prerequisite: IST 203

Catalog Course Description: This course is a study of troubleshooting network problems.

Purpose of the Course: This course provides the student with knowledge and skills in switching basics and intermediate routing.

Required text(s) or other materials:

1. Accessing the WAN CCNA Exploration Companion Guide; Cisco Press, 2012; Accessing the WAN CCNA Exploration Labs and Study Guide; Cisco Press, 2012; (Bundled) ISBN: 0133015521
2. NOTE: Students in traditional classes must access Blackboard for course-related information. Students in hybrid and online classes will access their online content through Blackboard.

COLLEGE-WIDE STUDENT LEARNING OUTCOMES

1. Communication – Students will demonstrate the ability to use active reading and listening skills and to produce effective written and oral communication for varying audiences.
2. Information Technology and Technological Literacy – Students will demonstrate competency in using computer technology within a field of study.
3. Critical Thinking/Reasoning – Students will demonstrate the ability to apply the scientific method, mathematical processes, and research skills to analyze and solve problems/issues by using reflection and reasoning to justify conclusions.
4. Professional and Personal Responsibility – Students will demonstrate the ability to exhibit conduct, attitudes, and etiquette appropriate to the student's community and chosen career. Students will demonstrate the ability to manage time, to use effective interpersonal skills, and to display responsible behavior.
5. Diversity – Students will demonstrate the ability to recognize diversity and to demonstrate respectful conduct and attitudes toward all. Students will demonstrate the ability to explain how global issues impact life, work, and opportunities.

Approved January 2, 2013

NETWORKING SYSTEMS ADMINISTRATION PROGRAM LEVEL STUDENT LEARNING OUTCOMES

Upon successful completion of the Network Administration program, the graduate will be able to:

1. Set up, maintain, and troubleshoot computer and network hardware.
2. Install, maintain, and troubleshoot operating system and application software.
3. Construct and configure local area networks.
4. Administer and troubleshoot network operating systems.
5. Analyze and implement security measures for information technology.

IST 204 COURSE OUTCOMES

Upon completion of the course, the student will be able to successfully complete 80 % of the following tasks:

1. Identify the components and protocols used in Wide Area Networks (WANs).
2. Implement and configure WAN encapsulation protocols used to connect network devices.
3. Implement and configure Access Control Lists on a router.
4. Implement and configure DHCP and NAT services on a router.

The outcomes of the IST 204 course are intended to meet the CPT/Networking Administration program level student learning outcomes numbered 1, 2, and 3 above.

Revised 1/2013

IST 204 – INTERNETWORKING CONCEPTS Tentative Schedule of Topic and Class/Lab Meetings

Please refer the Syllabus Attachment 1 to review the Tentative Course Schedule. The schedule outlines the chapters that will be reviewed, when tests will be given and when assignment and labs will be due.

IST 204 – INTERNETWORKING CONCEPTS

The Cisco curriculum is available at the website <http://www.netacad.com>. The text is used as an enhancement to the online curriculum. The online curriculum and review quizzes can be accessed with your user name and password. To receive full benefit from the online curriculum, be sure to visit links recommended and review audio portions.

The final exam consists of an online assessment and a skill-based assessment.

Grading Policy

A numeric grade will be given for each of the following items:

Unit Tests (Cisco Online Tests)	50 percent
Class Assignments	10 percent
Final Written Examination	20 percent
Final Skills Based Examination	20 percent

Departmental Grading Scale

Final letter grades will be issued as follows:

A	=	90 – 100
B	=	80 - 89
C	=	70 - 79
D	=	60 - 69
F	=	0 - 59

INCOMPLETES: An INCOMPLETE ("I") will only be approved if ALL of the following conditions exist:

- The student must have no more than 3 weeks (15-week term) or 1.5 weeks (8-week/10-week term) remaining to complete the course.
- The student must have a validated, documented reason why he/she cannot complete the course by the prescribed end date (illness, work situation, death, etc.).
- The student must be up to date with all work up to the point of the request for an Incomplete (no untaken tests or unsubmitted labs, homework, etc.), and the student must have a passing grade average (C or higher) for all work submitted.

READ THIS SYLLABUS CAREFULLY

You should read this syllabus carefully and ask your instructor about *any* aspects that you do not understand. The syllabus is an agreement between you and your instructor concerning course objectives, course content, grading, and other policies and procedures particular to this course. The above information is specific to the course. Three additional documents are provided as attachments and *are considered a part of this syllabus*:

Attachment 1:

Each instructor will provide a supplement to this syllabus. The supplement will include: a week-by-week plan of instruction based on the section in which you are enrolled; your instructor's name, office hours and/or office location; and your instructor's contact information and recommended best methods to contact your instructor.

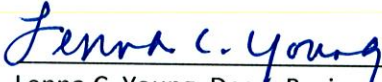
Attachment 2:

The Department responsible for developing and teaching has policies and procedures in place to assure quality instruction for all students. These are attached as "Departmental Policies and Procedures."

Attachment 3:

Please note that it is your responsibility to read the current Student Handbook included in Greenville Technical College's Catalog. (See website.) The Student Handbook addresses specific academic and student conduct policies and procedures. Excerpts from the Student Handbook representing the policies and procedures most often referred to in working with students are provided for your convenience as "Attachment 3."

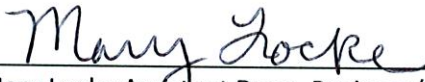
Approved by:



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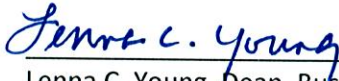
2 Jan 13

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Date

This syllabus will remain in effect until revised or reviewed no later than August 2013.