

Computer Technology Department
Business/Public Service Division
GREENVILLE TECHNICAL COLLEGE

COURSE SYLLABUS

Course Title: Cisco Router Configuration

Course Number: IST 202

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

Prerequisite: IST 201

Catalog Course Description: This course is a study of LANs, WANs, OSI models, Ethernet, token ring, fiber distributed data interface, TCP/IP addressing protocol, dynamic routing, and the network administrator's role and function.

Purpose of the Course: This course provides the knowledge and concepts required to understand how to design and build networks and configure Cisco routers.

Required text(s) or other materials:

1. Routing Protocols and Concepts: CCNA Exploration Companion Guide, bundled with Routing Protocols and Concepts: CCNA Exploration Labs and Study Guide Cisco Press, 2008; ISBN: 0-131-357719
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 GENERAL EDUCATION 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 March 26, 2009

COMPUTER TECHNOLOGY - PROGRAM LEVEL STUDENT LEARNING OUTCOMES

1. Install computer and network hardware.
2. Install computer operating systems and application software.
3. Design, create and test computer programming solutions.
4. Demonstrate the ability to take initiative, assume responsibility, and work under pressure with minimum supervision by successfully completing "hands-on" computer assignments.
5. Analyze, troubleshoot, and correct computer related technical problems.

Revised August 2012

IST 202 COURSE OUTCOMES

Upon completion of the course, the student will be able to successfully complete 70 % of the following tasks:

1. The student will be able to install and configure dynamic routing protocols on a Cisco router.
2. The student will be able to explain the operations of static and dynamic routing.
3. The student will be able to explain and demonstrate Variable Length Subnetting.
4. The student will be able to explain packet propagation in a TCP/IP network.

The outcomes of the IST 202 course are intended to meet the Computer Technology program level student learning outcomes.

IST 202 – CISCO ROUTER CONFIGURATION 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 202 – CISCO ROUTER CONFIGURATION

The Cisco curriculum is available at the web site cisco.netacad.net. 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 will consist of an online assessment and a skill based assessment.

Grading Policy

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

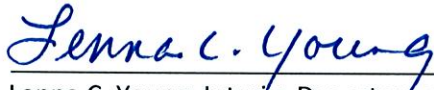
Attachment 2:

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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Date



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