### COURSE SYLLABUS

**Course Title: Cisco Router Configuration**
**Course Number:** IST 202

### 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 following information is specific to the course. Three additional documents are provided as attachments and *are considered a part of this syllabus*:

Attachment I:

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:** _____

Beau Sanders, Department Head, Computer Technology Department
beau.sanders@gvltec.edu, (864) 250-8314, Barton Campus, Building 103/311

**Approved by:** _____

Lenna C. Young, Ph.D., Vice President for Academic Affairs
*for the Dean of Business/Public Service Division*
*Dean's Office: (864) 250-8196, Barton Campus, Engineering Technology Building 103/104*

*10-15-13*

**Date**

*This syllabus will remain in effect until revised or reviewed no later than August 2014.*

**COURSE SYLLABUS**

**Course Title:** Cisco Router Configuration
**Course Number:** IST 202

**Lecture hours per week:** 3.0        **Lab/Clinic Hours:**        **Semester credit hours:** 3.0

**Prerequisites:** IST 201. Computer Technology students must obtain a minimum grade of "C" in all CPT and IST courses.

**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.

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**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.

*Revised December 31, 2012*

## COMPUTER TECHNOLOGY PROGRAM LEVEL STUDENT LEARNING OUTCOMES

Upon successful completion of the Computer Technology Degree students will be able to:

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

Students who successfully complete this course will have demonstrated the skills required to accomplish the following objectives with a minimum competence level of 70 percent.

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 – MAIN TOPICS

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 – COURSE SPECIFIC REQUIREMENTS

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.

**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 un-submitted labs, homework, etc.), and the student must have a passing grade average (C or higher) for all work submitted.

## IST 202 – EVALUATION AND GRADING INFORMATION

**Grades for this course will be calculated as follows:**

| | |
|---|---|
| Unit Tests (Cisco Online) | 50 percent |
| Class Assignments | 10 percent |
| Final Examination (Cisco Online) | 20 percent |
| Skills Based Assessment | 20 percent |
| Total | 100 percent |

**Final letter grades** will be issued as follows:

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

## Business/Public Service Division – Assistant Dean Information

During the semester, if you have any issues that need to be addressed at an administrative level, the Business/Public Service has two assistant deans in addition to the Dean who will be glad to speak with you about your concerns. They are available via email, phone, or in their offices as provided below:

Elizabeth Mann, Assistant Dean, Business/Public Service for Teaching and Learning
elizabeth.mann@gvltec.edu, (864) 250-8491, Barton Campus, Criminal Justice Building 121/124

Mary Locke, Assistant Dean, Business/Public Service for Student Services
mary.locke@gvltec.edu, (864) 250-8629, Barton Campus, Engineering Technology Building 103/304