

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

COURSE SYLLABUS

Course Title: Network Design

Course Number: IST 260

Lecture hours per week: 3.0

Lab/Clinic Hours:

Semester credit hours: 3.0

Prerequisites: IST 202, IST 258, IST 191 and SPC 205

Catalog course description: This course is a study of the processes and techniques required to identify the most attractive design solution of a telecommunications network-combining creativity, rigorous discipline, analysis, and synthesis – while emphasizing the solution in terms of cost and performance.

Purpose of the course:

Provide students in the Networking program with a capstone course that is designed to reinforce their skills in implementing, configuring, and maintaining a local area network to include physical configuration, logical configuration, security configuration, and wide area network connectivity.

Required text(s) or other materials:

1. Traditional and online students will use text books from previous courses.
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 March 26, 2009

NETWORKING SYSTEMS ADMINISTRATION PROGRAM STUDENT LEARNING OUTCOMES
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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 according to specification.
4. Administer and troubleshoot network operating systems.
5. Design and develop programming solutions to prescribed problems

Approved August 2009

IST 260 COURSE OUTCOMES

Students who successfully complete this course will have demonstrated a level of correct answers on the course assessment(s) that will be at least 80 percent for 80 percent of the course outcomes.

1. The student will be able to create a network solution proposal based on predefined customer requirements.
2. The student will be able to evaluate the customer requirements to identify and determine computer hardware and software requirements.
3. The student will be able to design and implement a Windows 2003 network.
4. The student will be able to design a network solution that includes a network domain structure, network security, and network connectivity.

The outcomes of the IST 260 course are intended to meet the Network Systems Administration program outcomes numbered 1, 2, 3, and 4 above.

Revised 1/2009

IST 260 – Main Topics

Saturday, August 21, 2010 beginning at 9:00 AM

Orientation and Introduction

Review Course and Syllabus

Discuss Future Class Meetings, Guest Speakers, and Field Trips

Discuss Performance Exam

Tuesday, September 7, 2010 beginning at 6:00 PM

Guest Speaker and/or Field Trip to be announced

Tuesday, September 14, 2010 beginning at 6:00 PM

Guest Speaker and/or Field Trip to be announced

Tuesday, October 5, 2010 beginning at 6:00 PM

Guest Speaker and/or Field Trip to be announced

Tuesday, October 19, 2010 beginning at 6:00 PM

Guest Speaker and/or Field Trip to be announced

Tuesday, November 9, 2010 beginning at 6:00 PM

Guest Speaker and/or Field Trip to be announced

Tuesday, November 16, 2010 beginning at 6:00 PM

Guest Speaker and/or Field Trip to be announced

Complete Performance Exam by End of Semester

Tutoring is now available in the Business Division Student Lab located on the Barton Campus in the Engineering Building (#103), Room 115. The hours for tutoring are posted in the lab (ET 115); no appointment is necessary. There are no fees required for this service.

IST 260 – Course Specific Requirements

SPECIAL NOTE TO ONLINE STUDENTS: Online students will be REQUIRED to come to the Barton Campus to complete hands-on labs. The number of required on-campus meetings will vary from class to class. Students should plan on at least 3 to 4 meetings. Online students will be required to complete the labs to satisfactorily complete the course. Also, the final examination for online students will be administered on the Barton Campus. The final examination will be scheduled at a time determined by the administration.

IST 260 – EVALUATION AND GRADING INFORMATION

Grades for this course will be calculated as follows:

GRADING POLICY

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|--|------------|
| 1) Team Project | 60 percent |
| <i>Note: The Team Project takes the place of the final exam for this course.</i> | |
| 2) Weekly Status Reports | 10 percent |
| 3) Current Event Summaries | 10 percent |
| 4) Individual Research Project | 20 percent |

NOTE: ALL GRADED TESTS AND EXAMS ARE RETAINED BY THE INSTRUCTOR.

- All assignments (i.e., labs, projects, research papers, etc.) for this course must be completed and submitted to the instructor by the due date established in order to receive full credit for the assignment.
- Assignments not submitted by the due date can receive up to a maximum of 80 percent credit if it is submitted within one week of the due date.
- Assignments submitted after one week of the due date will have a zero (0) grade recorded for the assignment.
- In the event that an assignment is made less than one week prior to the end of the course, the assignment must be submitted by the last day of class prior to the beginning of the final exam period and will not be accepted late.

Final letter grades will be issued as follows:

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

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.

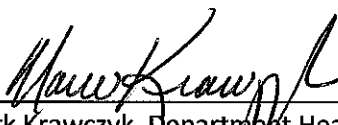
Attachment 2:

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."

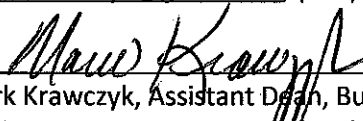
Attachment 3:

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."

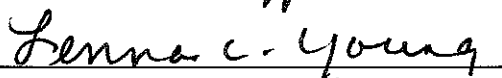
Approved by:


Mark Krawczyk, Department Head, Networking Systems Administration
Mark.Krawczyk@gvltec.edu, (864) 250-8404, Barton Campus, Building 103, Room 304

Approved by:


Mark Krawczyk, Assistant Dean, Business
Mark.Krawczyk@gvltec.edu, (864) 250-8404, Barton Campus, Building 103, Room 304

Approved by:


Lenna C. Young, Dean, Business/Public Service
Lenna.Young@gvltec.edu, (864) 250-8204, Barton Campus, Building 103, Room 104

13 Aug 10
Date

This syllabus will remain in effect until revised or reviewed no later than August 2011.