

GREENVILLE TECHNICAL COLLEGE

Business and Technology Division Computer Technology Course Syllabus Computer Technology Senior Project – CPT 275

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Credit/Contact Hours:

3.0

Prerequisite:

CPT 264; IST 278 or IST 235 or IST 203 or IST 258; SPC 205 or SPC 209; and MAT 103 or MAT 109 or MAT 120 or higher Computer Technology students must obtain a minimum grade of "C" in all CPT and IST courses.

Co-requisite:

None

Course Description:

This course includes the design, development, testing, and implementation of an instructor-approved project.

Purpose of Course:

This course will provide the student with the opportunity to utilize the concepts and skills from previous coursework to analyze and develop a real-life project. This project will also allow the student to be a participant in a long-term team project and to deal with technical issues where independent research will be required.

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Required Texts:

1. *Microsoft Office Project 2010*; Bunin; Course Technology/Cengage Learning;
ISBN: 978-0-619-06349-8
2. The student will also use the texts and support materials from previous relevant coursework. In addition, the Internet may be used along with other resource materials available from the instructor.
3. 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.

Additional Materials:

A USB portable storage device such as a flash drive will be needed for coursework storage.

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. (*Programming Students Only*) Demonstrate the ability to analyze a user request and prepare a design document using a structured design methodology and established standards.
2. (*Programming Students Only*) Demonstrate the ability to create, test, and document the code called for by a design document using current development environments and languages for application and database management.
3. (*Programming Students Only*) Demonstrate project plan knowledge and time management and goal setting through the creation of a project plan.
4. (*Programming Students Only*) Demonstrate the ability to work with others through participation in team building assignment and commitment to team goals and values.

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5. *(Network Systems Administration Students Only)* Create a network solution proposal based on predefined customer requirements.
6. *(Network Systems Administration Students Only)* Evaluate the customer requirements to identify and determine computer hardware and software requirements.
7. *(Network Systems Administration Students Only)* Design and implement a Windows Server network.
8. *(Network Systems Administration Students Only)* Design a network solution that includes a network domain structure, network security, and network connectivity.

Program 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.

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Greenville Technical College Core Competencies:

Communication Core Competency: Students will demonstrate effective written and oral communication skills to convey information, ideas, or opinions.

- **Written Communication:** Students will demonstrate effective written communication skills to convey information, ideas, or opinions.

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- Oral Communication: Students will demonstrate effective oral communication skills to convey information, ideas, or opinions.

Critical Thinking Core Competency: Students will demonstrate effective reasoning, problem solving, or quantitative skills to develop an opinion or conclusion.

- Critical Reasoning: Students will employ inquiry, analysis, and synthesis of information to formulate and/or evaluate an opinion or conclusion.
- Problem Reasoning: Students will design and formulate a strategy to answer a question or achieve a desired goal.
- Quantitative Reasoning: Students will be able to analyze numerical information or observable facts resulting in informed conclusions.

Information Literacy Core Competency: Students will be able to locate, evaluate, and use information effectively from diverse sources.

Professionalism Core Competency: Students will demonstrate conduct and etiquette appropriate to the community and chosen career.

- Professionalism: Students will display professional conduct and work habits.
- Teamwork: Students will collaborate with others to accomplish a shared goal.

Instructional Agreement:

This syllabus is an agreement between the student and instructor concerning course objectives, course content, grading and other policies and procedures particular to the course as well as any posted program, departmental, and divisional policies. It is also the student's responsibility to become familiar with the Student Handbook/College Catalog found in the Student Resource area of Blackboard.

Grading Scale:

GRADING POLICY FOR PROGRAMMING STUDENTS

Programming Students' overall grade will be calculated on the following items:

Guest Speaker and Field Trip Reports	30 percent
Programming Final Project	70 percent

The **Computer Technology Department Programming Final Project** grade (70% of overall grade) will be broken down into the following items:

Deliverable Evaluation Part 1 (Documentation)	20 percent
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Mission Statement, Charter, Functional Specs, Design Documents

Deliverable Evaluation Part 2 (Database Design/Queries) 20 percent

Finalized Testing Report

Deliverable Evaluation Part 3 20 percent

Project Turnover, Users Guide, Presentation Demo to Class

Peer Evaluations..... 5 percent

Supervisor/Instructor Contact Evaluation (*Status Reports, Interactions*) 5 percent

The following factors will also be considered in grading programs:

- a. The program must work correctly and produce the desired results.
- b. The program must be written in the style specified by the instructor and described in class.
- c. The program must be written with compactness in mind.
- d. The documentation should be clear and meaningful.

GRADING POLICY FOR NETWORK SYSTEMS ADMINISTRATION STUDENTS

Reports on Field Trips and Guest Speakers 30 percent

Network Systems Administration Performance Exam 70 percent

Student Disability Services

All students who have a disability and need accommodations should visit, call, or email Student Disability Services at the beginning of each semester/term. Students are strongly encouraged to obtain their accommodation forms within the first two (2) weeks of class to ensure appropriate services. The office is located on Greenville Tech's Barton Campus in the Student Center (Building 105), Rm 113, and can be reached by phone at (864) 250-8202 or (864) 250-8408 or by email at Sharon.Bellwood@gvitec.edu. The Disability Services counselor is available to meet with students on satellite campuses by appointment.

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Course Policies:

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