GREENVILLE TECHNICAL COLLEGE

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

Credit/Contact Hours
Prerequisite
Co-requisite
Course Description
Purpose of Course
Required Texts
Additional Materials
Course Outcomes
Program Student Learning Outcomes
Greenville Technical College Core Competencies
Instructional Agreement
Grading Scale
Course Policies

Credit/Contact Hours:
3.0

Prerequisite:
CPT 264; IST 203 or IST 235 or IST 258 or IST 278; 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.

GREENVILLE TECHNICAL COLLEGE

Required Texts:

1. The student will 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.

2. NOTE: <u>Students in traditional classes</u> must access Blackboard for course-related information. <u>Students in hybrid and online classes</u> 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.

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.

Revised August 2012

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.
- 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

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 ADMINISTRATION AND SYSTEMS ADMINISTRATION STUDENTS

Reports on Field Trips and Guest Speakers ………….. 30 percent

Performance Exam …………………………………………. 70 percent

Disabilities Information

Students with disabilities, including those who were served in Special Education (resource or tutorial), should contact Student Disability Services (SDS) to discuss their need for services and accommodations. The main SDS office is located on the Barton Campus in the Student Center Building 105, office 113.

Staff can be reached by phone at 864 250-8202 or via email to DisabilityServices@gvltec.edu . Appointments are available at all satellite campus locations. Please check the GTC website for

more information concerning Student Disability Services: http://gvltec.edu/disability-services/

Efforts have been made to ensure all materials presented in an electronic format are accessible for students with disabilities and the college is committed to this obligation. However, if you experience any difficulty accessing these materials please notify your instructor immediately so a solution can be provided. You may also contact Student Disability Services directly at 864-250-8202 or by email at DisabilityServices@gvltec.edu.

Students who need a PDF reader for accessibility of course documents presented in PDF format may download a free reader at https://acrobat.adobe.com/us/en/products/pdf-reader.html

Starfish

We care about your success! Greenville Technical College is proud to offer Starfish, a software tool designed to promote student success through coordination and communication between students, instructors and support staff.

When you set up your profile in Starfish, you can connect with services, faculty and staff at Greenville Technical College. The link to Starfish is located in Blackboard. Throughout the term, you may receive emails regarding your attendance, course grades or academic performance.

To benefit from this software, it is important that you check your Greenville Technical College Gmail regularly and read the Starfish alerts. If your academic performance begins to drop, you may also be contacted directly by a Success Coach or the Student Success Center.

Start, Stay, Succeed!

Course Policies:
Students in CPT275 are expected to adhere to and follow the CPT Department Policies attached to this syllabus as Attachment 2.