

GREENVILLE TECHNICAL COLLEGE

**Business and Technology Division
Computer Technology Department
Course Syllabus
CPT 275: Computer Technology Senior Project
Fall 2018 Catalog Year**

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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 math

Co-requisite:

None

Course Description:

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

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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.

Required Texts:

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.

Additional Materials, Supplies, Equipment, and Technology:

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

Blackboard portal website via gvltec.edu:

- Students in traditional classes must access Blackboard for course-related information.
- Students in blended classes will access their online content through Blackboard.

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 Resources area of Blackboard.

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.

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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.

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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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 create, test, and document the code called for by a design document using current development environments and languages for application and database management.
2. *(Programming Students Only)* Demonstrate the ability to work with others through participation in team building assignment and commitment to team goals and values.
3. *(Network Systems Administration Students Only)* Create a network solution proposal based on predefined customer requirements.
4. *(Systems Administration Students Only)* Design and implement a datacenter solution that includes a Windows server, Linux server, and a client PC including a domain controller, server security, and various network server applications.

Course Content:

Please refer to Syllabus Addendum in Blackboard to review the Tentative Course Schedule. Your instructor will provide a detailed, week-by-week plan of instruction along with method of delivery, testing, and assignment submission.

CPT 275 is the CPT Department's capstone course which provides students in all CPT concentrations (Network Administration, Systems Administration, and Web Programming) a chance to reflect and review coursework from all of their previous courses in the program.

All CPT 275 students will attend scheduled classes that feature class speakers from the IT industry or field trips to area organization IT departments, all designed to give CPT 275 students an exposure to the real-world IT industry before graduating. Each student will document each of these class sessions with a written report.

In addition to the classes and reports, all CPT 275 students will participate in a project or exam based on their CPT concentration. Web Programming students will be divided in to teams and given an RFP detailing a web application the team must create during the semester. Network Administration students must pass a three hour Performance

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Exam in which they will configure at least three servers, two switches, and two routers in to a working and secure router network. The Systems Administration students must pass a three hour Performance Exam in which each student is assigned three blank servers networked together in the college's datacenter. They must install and configure a Linux server, a Windows server, and a Microsoft client providing enterprise level deliverables as detailed in the exam.

The instructor reserves the right to modify the Plan of Instruction by changing the sequence of text material or testing content.

The final examination for traditional, online, hybrid, and blended class students will be administered on the Barton Campus. The final examination will be scheduled at a time determined by the administration.

Revised August 2018

Course Policies:

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

Please refer to Departmental Policies in Blackboard to review additional course and department policies.

Revised August 2018

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) <i>Mission Statement, Charter, Functional Specs, Design Documents</i>	20 percent
Deliverable Evaluation Part 2 (Database Design/Queries) <i>Finalized Testing Report</i>	20 percent
Deliverable Evaluation Part 3	20 percent

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Project Turnover, Users Guide, Presentation Demo to Class

Peer Evaluations	5 percent
Instructor Contact Evaluation	5 percent

The following factors will also be considered in grading programs:

1. The program must work correctly and produce the desired results.
2. The program must be written in the style specified by the instructor and described in class.
3. The program must be written with compactness in mind.
4. 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

Final letter grades will be issued as follows:

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

Revised August 2018

Students with Disabilities:

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/) (<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.

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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 Adobe Reader](https://get.adobe.com/reader/) (https://get.adobe.com/reader/).

Nondiscrimination Statement:

Greenville Technical College provides equal opportunity and affirmative action in education and employment for all qualified persons regardless of race, color, religion, sex, national origin, age, disability, sexual orientation, or veteran status.

The college complies with the provisions of Titles VI and VII of the Civil Rights Act of 1964, as amended; Title IX of the Education Amendments of 1972 and the Higher Education Amendments of 1986; Sections 503 and 504 of the Rehabilitation Act of 1973, as amended; the South Carolina Human Affairs Law of 1972; and with the Americans with Disabilities Act (ADA) of 1990 as well as the ADA Amendments of 2008 (ADAA).

For additional information on nondiscrimination policies, students should contact Student Disability Services, which coordinates Title II of the ADA/ADAA, Section 504 at (864) 250-8408 v/TTY; Title IX Coordinator at (864) 250-8144.

Technology Statement:

Greenville Technical College is not responsible for personal technology or internet access. Problems with computers, devices, or internet access are not acceptable for late work. When completing gradable coursework online, be sure to access a secure, reliable internet connection (preferably hardwired). All technical questions should be directed to technical support (https://www.gvltec.edu/about_greenvilletech/tech_support)

Due dates for all assignments and quizzes/tests are listed on the Course Schedule/Plan of Instruction. All graded work is time-stamped when submitted, so your instructor can check the time of submission. In addition, you will receive a confirmation email message when Blackboard Assignments are submitted. You must provide this confirmation information in case of any dispute regarding the submission.

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Computer labs are available at multiple campus locations and offer various hours as well as staff available for assistance.

(https://www.gvltec.edu/student_resources/computer_labs)

Microsoft Office programs or PDF format are recommended for submitting assignments in Blackboard. Students can access portal.office.com, log in with their <username>@my.gvltec.edu email address and Blackboard/GTC4me password, then follow the prompts to install Microsoft Office free of charge.

Title IX Policy:

Greenville Technical College does not discriminate against any student on the basis of pregnancy or related conditions and will comply fully with Title IX regulations.

Absences due to medical conditions relating to pregnancy and maternity leave will be excused for as long as deemed medically necessary by a student's doctor, and the student will be given the opportunity to make up missed work. Documentation from the student's doctor is required. Students needing assistance may seek accommodations from the Title IX Coordinator or Student Disability Services. Please contact the Title IX Coordinator (TitleIX@gvltec.edu) or Student Disability Services (DisabilityServices@gvltec.edu) for additional information.

Attendance:

Attendance and participation are necessary for academic success. The student's record of attendance will begin on the first day of the course, even if registration occurs after the course has begun. Students are expected to attend and complete all scheduled instructional activities, both in class and online.

A student may withdraw from any course up to the published deadline. If the student drops the course during the add/drop period, no course tuition will be charged. If a withdrawal occurs after the drop/add period, tuition charges will result. Ceasing to attend class does not constitute an official withdrawal from the course and may result in financial aid consequences. Refer to the Refund Policy for details.

Administrative removal from a course:

- If a student preregisters for a course, but subsequently does not meet the prerequisite for the course, the course will be deleted from the student's schedule. Students will be notified via their college email account that the course has been removed.

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- If a student registers for a course, but fails to attend (including failing to meet the criteria for being counted as present in an online course), the student will be administratively withdrawn from the course and will earn a grade of WA. The student will be responsible for payment for the course in accordance with the college refund policy. Students will be notified via their college email account that they have been administratively withdrawn.
- If a student attends a course at least once during the drop/add period, but fails to attend (including failing to meet the criteria to be counted as present in an online course) after the drop/add period, the student will be administratively withdrawn from the course and will earn a grade of W. The student will be responsible for payment for the course in accordance with the college refund policy. Students will be notified via their college email account that they have been administratively withdrawn.
- If a student is recorded absent for more than 20 percent of the course contact hours, whether face-to-face or online, the student will be administratively withdrawn from the course and will earn a grade of W. The student will be responsible for payment for the course in accordance with the college refund policy. Students will be notified via their college email account that the absences limit has been exceeded and that they have been administratively withdrawn.

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!