

GREENVILLE TECHNICAL COLLEGE

Business and Technology Division Computer Technology Course Syllabus C# Programming II CPT 231 Fall 2018

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Credit/Contact Hours:

3.0

Prerequisite:

CPT 230, IST 272

Co-requisite:

None

Course Description:

This course introduces designing, coding, testing and debugging C# programs. Topics include procedural, functional and object oriented techniques; programming; IDEs; .NET; processing data; data types; I/O; decision processing; control structures; modularized coding with methods; and arrays.

Purpose of Course:

This course introduces the student to the syntax and coding of the C# programming language. This includes the design, coding, testing, and

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debugging of code as well as exception handling and validation to prevent errors.

Required Texts:

Title : C# 2015, Author : J. Murach; ISBN: 9781890774943

Additional Materials, Supplies, Equipment, and Technology:

Visual Studio 2017 Community Edition (Free)

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. Students will be able to demonstrate the ability to design, write, debug and test C# programs according to specifications.
2. Students will be able to demonstrate the ability to take initiative by completing a lab assignments with minimal supervision.
3. Students will be able to demonstrate the ability to work under pressure, and show responsibility by completing lab assignments.
4. Students will be able to demonstrate the ability to use Microsoft Visual Studio.NET for developing C# applications.
5. Students will be able to demonstrate a basic proficiency in the use of C# syntax to include data types, control structures, arrays, event procedures, functions, methods and classes.

The objectives of the CPT 231 course are intended to meet the CPT/Programming program level student learning outcomes 2 and 6 below.

Program Student Learning Outcomes:

Upon successful completion of the CPT/Programming program, the graduate will be able to:

1. Students will be able to analyze, design, develop, and document solutions that will satisfy the information needs of business users using established design methodologies and standards.
2. Students will be able to design, create, test, and document logical programming solutions to prescribed specifications following established GREENVILLE TECHNICAL COLLEGE Page 3 of 6 standards and using current development environments and languages for application development and database management.
3. Students will be able to demonstrate the knowledge and ability to install and maintain microcomputer hardware and operating system software.
4. Students will be able to demonstrate the use of a minimum of three business application software packages.
5. Students will be able to demonstrate fundamental team building, project management, and presentation skills by participating in team projects that include

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team goals and values, a development methodology for documentation and coding, group presentations, and exposure to topics such as diversity, time management, and goal setting.

6. Students will be able to demonstrate the ability to take initiative, assume responsibility, and work under pressure with minimum supervision by successfully completing "hands-on" computer lab assignments.

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 Resources area of Blackboard.

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Grading Scale:

Assignments	40%
Quizzes	10%
Tests (2)	30%
Final Exam	20%

Final letter grades will be issued as follows:

90-100:	A
80-89:	B
70-79:	C
60-69:	D
Below 60:	F

Course Policies:

1. Students will be assigned programming assignments for each module in the class. Students may make use of the computer technology department tutor, but do not expect the tutor to complete your work for you.
2. Module quizzes will be assigned for each module, including content from the chapter(s) covered in the module.
3. There will be 2 exams: one after module 2, and one after module 8.
4. There will be 1 final exam (cumulative) after module 13.
5. All assignments/quizzes/exams must be completed **and submitted to the instructor** by the published due date in order to receive credit.

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.

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/>).

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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 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.

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!