

GREENVILLE TECHNICAL COLLEGE

Business and Technology Division Computer Technology Course Syllabus Information Systems CPT 113

Fall 2018

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Credit/Contact Hours:

3.0

Prerequisite:

Placement into MAT032 or higher and placement into RDG 100 or higher

Co-requisite:

None

Course Description:

This course is an introduction to the principles and technologies used in modern management information systems.

Purpose of Course:

To present a core of IS principles with which every student should be familiar. Provide a survey of the IS career that will enable all students to

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understand the relationship of advanced courses to the curriculum as a whole. To teach the changing role of the IS professional and show the value of the career as an attractive field of specialization.

Required Texts:

1. Alice 3 to Java; Wanda Dann, Don Slater, Laura Paoletti, Dave Culyba; Pearson; ISBN: 9780136156741
2. MIS8; 8th Edition; Hossein Bidgoli; Cengage Learning; Via a Cengage Unlimited subscription. The ISBN for this item is: 9780357700044 at the Greenville Tech Book Store. Note that a single purchase of a Cengage Unlimited one year subscription will give you access to the Cengage materials for this course and other courses for a whole year. You only need to purchase one copy of it every twelve months during any given time in which you need access to Cengage course materials.

NOTE: Students will access course content through Blackboard and Cengage. You must have a Cengage Unlimited subscription to complete some of the assignments in the course. A physical copy of MIS8 does not suffice, you must have a Cengage Unlimited subscription.

Additional Materials:

1. Alice 3 software (free software obtained from www.alice.org).
2. Microsoft Office (Word) - Microsoft Office software may be purchased, licensed, or leased from Microsoft Corporation. If you do not already have Word, look at your options as a Greenville Tech Student before you spend money on it. Student discounted / free versions are often available. Do an internet search on "Microsoft Word free for students" and look for deals being offered by the Microsoft Corporation.
3. A USB portable storage device such as a flash drive is recommended for coursework storage. Google Drive or One Drive Cloud storage may also be used. Students should not save classwork or homework on classroom

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computers as all user documents will be deleted periodically by the school.

4. Headphones are required for quiet listening to audiovisual videos in GTC public labs, classrooms, and the Technical Resource Center.

SPECIAL NOTE TO STUDENTS IN HYBRID (BLENDED) COURSES:

The number of required face-to-face events will vary from section to section, take a close look at details concerning your section. Some sections meet face-to-face weekly other sections only meet a few times a semester.

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. Demonstrated an understanding of the "language" (key terms and concepts) of information systems with respect to computer software, computer programming, and emerging IS trends.
2. Coded an Alice program that includes logical structures including selection (branching) and repetition (looping).
3. Demonstrated an understanding of Management Information Systems as it relates to business principles and the role of the IS professional.
4. Demonstrated an understanding of the theories and practices of MIS systems and their impact on business operations.
5. Completed a team presentation project.

The objectives of the CPT 113 course are intended to meet the CPT program level student learning outcomes.

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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.

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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:

Emphasis will be placed on tests, assignments, group projects, and a cumulative final exam with the following weights:

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Grades for this course will be calculated as follows:

Assignments	20 percent
Laboratories	20 percent
Group Projects	10 percent
Tests	40 percent
Final Exam	<u>10 percent</u>
Total	100 percent

Final letter grades will be issued as follows:

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

Course Policies:

PLAN OF INSTRUCTION:

<u>TEXT</u>	<u>CHAPTER</u>	<u>MAJOR TOPICS</u>
MIS8	Chapter 1	Information Systems Overview
ALICE3	Chapter 1	Problem Solving & Intro to Classes & Objects
ALICE3	Chapter 2	Design Techniques & Saving a Project World
MIS8	Chapter 2	Computers-The Machines behind Computing
ALICE3	Chapter 3	Writing Code Statements
MIS8	Chapter 3	Database Systems
ALICE3	Chapter 4	Comments, Bugs and Debugging
MIS8	Chapter 4	Organizational Issues of Information Systems

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MIS8	Chapter 5	Protecting Information Resources
ALICE3	Chapter 5	Custom Procedures & Count Loops
MIS8	Chapter 6	Data Communication
MIS8	Chapter 7	the Internet, Intranets, and Extranets
ALICE3	Chapter 6	Stepwise Refinement & Inheritance
MIS8	Chapter 8	E-Commerce
MIS8	Chapter 9	Global Information Systems
MIS8	Chapter 10	Building an Information Systems
ALICE3	Chapter 9	Variables & Procedures
MIS8	Chapter 11	Enterprise Systems
ALICE3	Chapter 11	If/Else
MIS8	Chapter 12	Management Support Systems
ALICE3	Chapter 12	While Loops
MIS8	Chapter 13	Intelligent Information Systems
ALICE3	Chapter 16	Text String Output for Feedback
MIS8	Chapter 14	Emerging Trends

NOTE: Hands-on lab assignments and other student projects will be scheduled throughout the semester.

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

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

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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. 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!