

Course Syllabus

COURSE: CIS 130 Introduction to Programming
CREDITS: 3 semester hours – Fall 2016
PREREQUISITE: none
INSTRUCTOR: Cindy Roller **E-mail:** cindy.roller@southeasttech.com
TC202 (Technology Center) **Phone:** 367-5560

COURSE DESCRIPTION: This course introduces students to the terminology, fundamentals and application of a disciplined program development process. Basic programming concepts covered include: problem analysis; logic organization and design; creating user-friendly interfaces; sequential, decision, and looping constructs; data types, variable definitions and scope; various debugging techniques; arrays; methods; object-oriented programming concepts; database access; and error handling.

TEXT: Starting Out with Visual C#, 4th ed. by Tony Gaddis ISBN: 978-0-13-438260-9

COURSE OUTCOMES: The student should be able to demonstrate the following outcomes upon successful completion of this course:

1. Explain fundamental programming concepts and terminology.
2. Demonstrate the ability to use an Integrated Development Environment tool (i.e. Visual Studio) efficiently.
3. Design and construct a professional-looking, user-friendly interface that enhances a software solution.
4. Employ a software development process that includes problem analysis, logic and interface design, testing and debugging.
5. Distinguish between a program's input, processing, and output requirements.
6. Demonstrate proper use of a programming language's syntax, data, memory, and control structures.
7. Identify and resolve different types of programming errors.
8. Discuss program logic and code with others.
9. Create programs that effectively solve a variety of problems.

BASIS FOR EVALUATION:

Exams (50% of grade) – Online students are responsible for finding an approved proctor or testing site to administer some or all exams if they aren't able to use Southeast Tech's Online Support Center. In this course the first exam can be taken on line and does not require a proctor.

A minimum of four exams will be given during the semester. Exams will consist primarily of performance tests (where the student creates or completes an application). Tests may also include true/false, multiple choice, and fill-in type questions. Make-up exams are not available, but arrangements may be made with the instructor to take an exam prior to the scheduled testing time. Students may throw out their lowest exam score (if a test is missed, then the missed test would be thrown out) or choose not to take the last exam if they are satisfied with their grade. Quizzes or short, in-class assignments may be given unannounced, and may not be made up if missed. One or two low quizzes may be thrown out, depending on the number given.

Assignments (40% of grade)

- Each assignment will be given a due date and time. Always check to see if an assignment has instructions and/or files attached to it in Coursework, even if it's from the textbook.
- **Programming Assignments** – *Most* will usually remain open beyond the due date (2 days for online courses and 4 days for traditional courses).
- **Prep and/or Team Assignments** – *Most* will remain open 2 days beyond the due date, but may receive a grade reduction if turned in after the due date.
- Students may receive partial credit for partial solutions and are encouraged to turn in their work before an assignment closes! Completing the projects helps prepare students for exams.
- **AmIGettingIt? Assignments** will NOT remain open beyond the due date. Students can retake these timed assessments once in order to achieve their best possible score. They should read chapter topics prior to taking these assessments, and should let their instructor know about topics they seem to be struggling with.

Class Preparation, Participation, & Team Work (10% of grade) - It is expected that students demonstrate responsibility and commitment to learning by participating in the course and activities. Students should check their school e-mail and the course website (especially the Coursework and Gradebook pages) to stay current with assignments. Additional study time outside of class is required. Quizzes may be given unannounced and may not be made up.

GRADING: The grading scale is shown below.

90% - 100%	A	80% - 89%	B	70% - 79%	C
60% - 69%	D	59% or lower	F		

A grade of “C” or higher is required for all CIS programming courses for students majoring in Programming.

ATTENDANCE POLICY: For traditional courses, punctuality and good attendance are important. Being tardy or absent has a negative effect on the learning environment and ultimately the work environment. To better prepare students for employment, this course has expectations that emulate those of a normal job. Students should monitor their attendance on STInet, and are encouraged to meet with and email their instructors if they have extenuating circumstances that cause them to be absent for an extended period of time. Students are discouraged from leaving open labs early if they have unfinished work.

CONDUCT POLICY: Students are also expected to act in a professional and courteous manner. Cheating or plagiarism may result in, at the very least, a zero for that work for everyone involved. Severe unethical behavior may result in a failing grade for the course, and possible suspension from school.

STUDENT SUCCESS: Student success is important to STI faculty, and all faculty are involved in assessing learning. Upon completion of a degree, Southeast graduates will have demonstrated competency in the following areas:

Science and Technology: Technical competence including knowledge of technology and/or scientific principles as they apply to programs.

Problem Solving & Critical Thinking: The ability to select and use various approaches to solve a wide variety of problems – scientific, mathematical, social and personal. Graduates will also be able to evaluate information from a variety of perspectives, analyze data, and make appropriate judgments.

Communication: The ability to communicate effectively in several forms – oral, written, nonverbal and interpersonal. Graduates will also demonstrate knowledge of how to manage and access information.

Professionalism: Strong work ethic, including responsible attendance; skill in teamwork and collaboration, as well as an ability to work with others, respecting diversity; ability to adapt to change; commitment to lifelong learning; adherence to professional standards; and positive self-esteem and integrity.

Violations of safety to self and others and/or violation of safe operating practices of equipment may result in: the reduction or loss of your daily grade; removal from class; and/or other disciplinary action.

The instructors and the faculty members in this course will act with integrity and strive to engage in equitable verbal and nonverbal behavior with respect to differences arising from age, gender, race, handicapping conditions and religion. If you have special needs as addressed by the American with Disabilities Act and need course materials in alternative formats, notify your instructor immediately. Reasonable efforts will be made to accommodate your special needs.