Course Syllabus

COURSE: **CIS 131 C# Programming**
PREREQUISITE: CIS 130 Introduction to Programming
CREDITS: 3 semester hours - Spring 2020

INSTRUCTOR: Cindy Roller **E-mail:** cindy.roller@southeasttech.edu
TC202 (Technology Center) **Phone:** 367-5560

COURSE DESCRIPTION: Students will build on their knowledge of fundamental programming concepts in this course by developing a variety of business applications using the C# programming language. A higher-level understanding of methods and event-handlers, arrays and collections, object-oriented programming concepts, and database programming is the desired outcome.

TEXT: Murach's C# 2015 by Anne Boehm & Joel Murach **ISBN:** 978-1-890774-94-3

Students should consider keeping this textbook as a reference for future courses.

HARDWARE REQUIREMENTS: All CIS courses require the use of a laptop computer. Assessment of computer compatibility and hardware or software issues and questions may be directed to the Southeast Tech IT Support Center at 605-367-4461. For more information regarding the Virtual PC Technology used at Southeast Tech, contact the IT Support Center.

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

1. Demonstrate proficiency using Visual Studio to create C# applications.
2. Break down code into logical and more manageable parts.
3. Develop a software solution based on analysis of user requirements.
4. Identify the pros and cons of using arrays versus collections.
5. Discuss program logic and code with others.
6. Create programs that effectively solve a variety of problems.
7. Diagram algorithms using a variety of techniques.
8. Reconstruct an application to include object-oriented programming concepts.

BASIS FOR EVALUATION:

Exams: (48% of grade) – Traditional students will take exams with their instructor. Online students are responsible for finding a proctor or testing site (which must be approved by the instructor) to administer some or all exams if they are unable to use Southeast Tech's Online Support Center located on campus.

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.

Programming Assignments (38% of grade)

- Each assignment will be given a due date, and *most* will close at 11:55pm on that date. Assignments should be turned in to Coursework on or before the due date. The instructor will notify students if a due date has been changed. Occasionally, an extension (with or without a penalty) might be added beyond the original due date.
- Students may receive partial credit for partial solutions and are encouraged to complete all assignments in order to build their problem-solving and coding skills.
- Always check to see if an assignment has instructions and/or files attached to it in Coursework, even if it's from the textbook.
- These projects will require more independent thinking, problem-analysis and code design.

Attendance/Class Participation, Preparation & Team Activities (8% of grade) - It is expected that students demonstrate responsibility and commitment to learning by submitting all assignments on or before the designated due date and by actively participating in team projects or forums. Students should check their school e-mail once or twice a day for any communication from their instructor(s). This is especially important in an online course!

Code Review Assignments (6% of grade) – In an effort to assist students with topics that may be challenging, periodic supplemental assignments/activities will be given. Some assignments will be completed independently, while others will be done in small groups. Assignments in this category cannot be made up if missed.

GRADING: The grading scale is shown below. Students may see a + or – with their course grade but it does not impact their overall gpa. Students are strongly encouraged to ask for help if they find themselves confused or falling behind.

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:

Online students' *attendance* is reflected in their participation in class and their timely submission of assigned work. It will be monitored by using a weekly mock attendance date.

For traditional students, attendance is taken at the beginning of each class. Students are discouraged from leaving open labs early if they have unfinished work.

To prepare students for employment, this course has expectations that emulate those of a normal job, which means attendance, participation and punctuality are important. Students can monitor their attendance on STInet, and are encouraged to meet with and/or email their instructor if they have extenuating circumstances that cause them to be absent for an extended period of time.

CONDUCT POLICY: Students are 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 Southeast Tech faculty, and all faculty are involved in assessing learning. Southeast graduates will have competence in the following four common learning outcomes:*

Technology: *Graduates will be able to understand industry-relevant technical concepts (knowledge) and demonstrate industry-relevant technical skills (performance).*

Communication*: Graduates will be able to define the purpose of the communication they are using, organize and structure the communication, and provide supporting materials for this communication. Graduates will demonstrate precision of language and will be able to professionally deliver and format the communication.*

Problem Solving & Critical Thinking*: Graduates will be able to define a problem as it relates to their field of study. They will demonstrate the ability to analyze the problem, generate solutions, evaluate solutions, and select the best solution.*

Professionalism*: Graduates will be able to demonstrate positive work ethic, collaborate as part of a team, adapt to change, adhere to professional standards, and model integrity and ethics.*

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.