

C# Programming

CIS-131 30C 0

Spring Term 2021-2022 School Year Section 30C 0 3.00 Credits 01/10/2022 to 05/06/2022 Modified 01/07/2022

Meeting Times and Location

ONLINE

Contact Information

CIS Instructor: Mr. Bill Jing

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Email is the best way to contact me.

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 of understanding of methods and event-handlers, arrays and collections, object-oriented programming concepts, and database programming is the desired outcome. Prerequisite: CIS 130

Outcomes

Course Outcomes

1. Students are expected to write a program for an application that requires the use of a one-dimensional, rectangular, or jagged array, write the code that works with the array.
2. Students are expected to write a program for an application that requires the use of one of the collection classes presented in this chapter, write the code that works with the collection.
3. Given the date and string-handling requirements of an application, students will be able to write the code that satisfies the requirements.
4. Given the specifications for a form that uses any of the controls presented in a chapter, design and code the form.
5. Given the specifications for an application that uses classes with any of the members presented in a chapter, students will develop the application and its classes.
6. Students can develop and use classes that have indexers, delegates, events, and overloaded operators.
7. Use any of the features of inheritance that are presented in this chapter as you develop the classes for your applications.
8. Develop and use your own interfaces.
9. Students are expected to work on the basic components of database applications.

Additional Outcomes

Course Materials

Murach's C# (7th Edition)

Author: Anne Boehm and Joel Murach

Publisher: Murach

Edition: 7th

ISBN: 978-943872-53-4

Availability: Campus Bookstore

☰ Deliverables

✓ Evaluation Procedures and Grading

Criteria

Exams (50% of grade) – There will be an online exam for each chapter. Two of the exams will be proctored by your instructor through Microsoft Teams.

Exams will be multiple choice 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.

Programming Problems/Lab Assignments (50% of grade)

- All assignments will be given a due date.
- Due dates will not be changed unless prior arrangements have been made.
- Assignments will be accepted up to 4 days past the due date.
- For each day late, a 10% reduction in the grade for the assignment will be assessed.
- After 4 days late, the assignment has no value.
- Student may receive partial credit for partial solutions.

Since assignments are turned in electronically, being absent from class is not an excuse for turning in an assignment late. Since the mission of Southeast Technical Institute is to educate people for employment in technical careers, it's important that students 'Do the Work!'

Breakdown

Grades will be earned on a point system, and will be determined by using the following formula:

Points Earned

Deductions Points Possible

A+ = 99 to 100	A = 94 to 98.99	A- = 89.5 to 93.99
B+ = 89 to 89.49	B = 84 to 88.99	B- = 79.5 to 83.99
C+ = 79 to 79.49	C = 74 to 78.99	C- = 69.5 to 73.99
D = 63 to 69.49	D- = 59.5 to 62.99	F = 0 to 59.49

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

* Course Expectations

☰ Additional Items

Course Outline

When	Topic	Notes
Week #1	Appendix A	How to set up Windows for this book
Week #2	Chapter 1~11	Chapters Review
Week #3	Chapter 12	How to create and use classes
Week #4	Chapter 13	How to work with indexers, delegates, events, and operators
Week #5	Chapter 14	How to work with inheritance
Week #6	Chapter 15	How to work with interfaces and generics
Week #7	Chapter 16	How to organize, document, and test your classes
Week #8	Chapter 17	How to work with file I/O
Week #9	Chapter 18	How to use LINQ
Week #10	Chapter 18	How to use LINQ
Week #11	Chapter 19	An introduction to database programming
Week #12	Chapter 20	How to use Entity Framework Core
Week #13	Chapter 21	How to use ADO.NET to write your own data access code
Week #14	Chapter 22	How to use the DataGridView control

Institutional Policies

Course Subject to Change

The syllabus is a statement of intent and schedule of topics, activities, assessments, and requirements as well as an overall road map to ensure students will achieve both the course learning objectives and the program-level learning objectives.

The scheduled educational activities are subject to change with reasonable advance notice to students by either the instructor or academic administration. The grading and attendance policies are not subject to change once posted.

Students wishing to appeal changes to a course syllabus must first do so in writing to their instructor. If a successful resolution is not achieved after submitting the written appeal, the student has the option to file a written appeal to the appropriate Associate Dean of Curriculum and Instruction or Dean of Curriculum and Instruction. If the second level appeal does not result in a resolution, the student can submit a final appeal to the Vice President of Academic Affairs. The review and final decision of the Vice President of Academic Affairs is final and not subject to appeal.

Attendance

Administrative Withdraw for Non-Attendance

Students are expected to attend all sessions of courses for which they are enrolled. Absences do not excuse the student from meeting course requirements. Each instructor will evaluate the student's progress to determine how to handle outstanding assignments and assessments. Students who have a record of zero attendance for fourteen (14) calendar days will be administratively withdrawn from the course(s) the absence is occurring, resulting in a grade of "W" for the course. Students who receive financial aid may have their financial aid status affected. More information is located in the [Southeast Tech Catalog](http://catalog.southeasttech.edu/) (<http://catalog.southeasttech.edu/>):

Student Learning Outcomes

Student success is important to Southeast Tech faculty, and all faculty are involved in assessing student learning. Upon graduation, Southeast students will have competence in the following four common learning outcomes:

Technical Skills: Students will be able to explain industry-relevant concepts (knowledge) and demonstrate industry-relevant technical skills (performance).

Communication: Students will be able to define the purpose of the communication; organize and structure the communication; provide supporting material; demonstrate precision of language; and professionally deliver and format the communication.

Problem Solving & Critical Thinking: Students will be able to define the problem; analyze the problem; generate solutions; evaluate solutions; and select the best solution.

Professionalism: Students 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.

Student Conduct, Cheating and Plagiarism

Students attending Southeast Technical College are expected to follow policies and requirements in the Southeast Technical College Student Handbook: [STC Student Handbook \(https://catalog.southeasttech.edu/content.php?catoid=27&navoid=18977\)](https://catalog.southeasttech.edu/content.php?catoid=27&navoid=18977). In addition, some departments have academic handbooks for their areas that outline expected student conduct.

Southeast policies authorize the Vice President of Academic Affairs to suspend or terminate any student from the college for misconduct as outlined in the rules of this policy. The following student misconduct shall constitute grounds for student discipline, suspension, or termination when such activity occurs on school grounds, in the online course environment or during an educational function under the auspices of the school board: acts of dishonesty, including cheating and plagiarism or other forms of dishonesty relating to academic achievement.

Test Proctoring

The Southeast Testing Center offers test proctoring located in the Wood Center Building, Room 103. Online instructors will communicate details regarding required test proctoring and how to sign up to take these assessments. Testing Center contact information: 605.367.6014 or testing@southeasttech.edu

Safety

Violation of safety to self and others and/or violations of safe operating practices of equipment may result in the reduction or loss of a daily grade, removal from class, and/or other disciplinary action.

Accessibility Services

It is the policy and practice of Southeast Technical College to create inclusive and accessible learning environments consistent with federal and state laws. In accordance with Section 504 of the Rehabilitation Act of 1973, the Americans with Disabilities Act of 1990, and the Americans with Disabilities Act Amendment Act of 2008, Southeast Technical College ensures that no student with a disability will be discriminated against or denied access to participation in, or benefits of, programs, services and activities. If you are a student with a documented disability, think you may have a disability, or have a temporary health condition that requires accommodations, please visit the [Accessibility Services \(https://www.southeasttech.edu/student-life/accessibility-services.php\)](https://www.southeasttech.edu/student-life/accessibility-services.php) website, call 605-367-5727, or email [access@southeasttech.edu \(mailto:access@southeasttech.edu\)](mailto:access@southeasttech.edu). All students are encouraged to discuss access-related needs with their instructors and Accessibility Services as soon as possible.

ADA Statement

The instructor in this course will act with integrity and strive to engage in equitable verbal and nonverbal behavior with respect to differences from age, gender, race, handicapping conditions, and religion. Students with special needs as addressed by the Americans with Disabilities Act that need course materials in alternative formats should notify instructor immediately. Reasonable efforts will be made to accommodate those special needs.

Freedom of Speech

Southeast Tech strives to create an environment in which diverse opinions can be expressed and heard. Students have the right to peacefully express their views and opinions, regardless of whether others may disagree, but not in such a way as to interfere with the rights of others or the operation of the college. Views expressed should not violate any of Southeast Tech policies or core values.

Southeast Technical College students are both citizens and members of the Southeast Tech community. Students should enjoy the same freedom of speech, peaceful assembly, and right to petition that other citizens enjoy and should abide by the obligations and expectations as members of the Southeast Tech community.

Notice of Nondiscriminatory Policy

Southeast Tech is committed to a policy of equal opportunity for all in every aspect of its operations. Southeast Tech does not discriminate on the basis of race, color, creed, religion, age, gender (including pregnancy), sexual orientation, disability, national origin or ancestry, military/veteran status, genetic information, or any other category protected by law in its educational programs, admissions policies, employment policies, financial aid, or other institute-administered programs. Click this link for more information: [Non-Discriminatory Policy and Contact Information \(https://catalog.southeasttech.edu/content.php?catoid=27&navoid=18512\)](https://catalog.southeasttech.edu/content.php?catoid=27&navoid=18512)

Title IX/Sexual Misconduct/Sexual Assault/Sexual Offense

Southeast Tech is committed to providing a learning and working environment free of unlawful harassment based on an individual's race, color, religion, creed, ancestry, national origin, gender, sexual orientation, disability, age, protected military/veteran status, genetic information or any other basis protected by law. Concerns may be reported directly to this individual in person, by calling 605-367-4670, or by emailing Brett.Arenz@k12.sd.us. Individuals with immediate concerns should call campus security at 605-941-9003. For more information, click this link: [Title IX in Student Catalog \(https://catalog.southeasttech.edu/content.php?catoid=27&navoid=19026&hl=%22Title+IX%22&returnto=search\)](https://catalog.southeasttech.edu/content.php?catoid=27&navoid=19026&hl=%22Title+IX%22&returnto=search)

Student Right-to-Know/Campus Security Act

Southeast Tech is required under Public Law 101-542 to encourage students to report all crimes (murder, rape, forcible or non-forcible sex offenses, robbery, aggravated assault, burglary, motor vehicle and other thefts or crimes) which occur on the Southeast Tech Campus to the local law enforcement offices and to the Southeast Tech Student Success Center or campus security. For more information on Student Right to Know/Campus Security Act, click this link: [Student Right to Know - Campus Security Act \(https://catalog.southeasttech.edu/content.php?catoid=27&navoid=19026&hl=%22Student+Right+to+Know%22&returnto=search\)](https://catalog.southeasttech.edu/content.php?catoid=27&navoid=19026&hl=%22Student+Right+to+Know%22&returnto=search)

Family Educational Rights & Privacy Act

FERPA stands for the Family Educational Rights and Privacy Act of 1974. It is a federal law governing the privacy and handling of educational records and giving specific rights to students. You can find more information about the law at <http://www.ed.gov/policy/gen/guid/fpco/ferpa/students.html> (<http://www.ed.gov/policy/gen/guid/fpco/ferpa/students.html>)

Student Communications

Southeast Tech's student email accounts will be used as Southeast Tech's official means of communications with students. Southeast Tech students should also use the myTech Student and Campus Life tabs for information regarding important upcoming events and required dates for fee payment, etc. The Student and Campus Life tabs will also inform students about job opportunities, scholarship information, and other important announcements.

Academic Resource Center (ARC)

Your success is important to us! In addition to meeting with your instructor for academic assistance, STC students are encouraged to use the free tutoring and other support services in the Academic Resource Center (ARC) to reinforce understanding of course concepts and improve performance in courses. ARC offers one-on-one tutoring for course assignments or skill building (e.g., test-taking strategies, note-taking, memorization, etc.) with faculty or peer tutors. Learn more about these services by visiting the ARC page found in the Student tab of myTech.

Student Mental Health

Mental health and overall well-being are significant predictors of academic success. As such it is essential that during your college experience you develop the skills and optimize resources effectively to navigate stress, anxiety, depression, and other mental health concerns. Please familiarize yourself with the range of resources Southeast Tech provides and seek out support for mental health concerns as needed. Counseling services are available in the Sullivan Health Science Center administrative office Room 200 or by calling 605-367-7466.

Sexual Misconduct

Southeast Tech is committed to providing a learning and working environment that emphasizes the dignity and worth of every member of its community, free from discriminatory conduct. Sexual harassment in any form or context is contrary to this commitment and will not be tolerated. Sexual harassment subverts the mission and the work of Southeast Tech and can threaten the career, educational experience, and well-being of students, faculty, and staff.

Southeast Tech recognizes that sexual harassment includes harassment based on gender, sexual orientation, gender identity, or gender expression and may occur regardless of the formal position or status of each person involved. Sexual harassment is especially offensive, however, when it occurs in relationship between an instructor and student or between supervisor and subordinate. In those situations, sexual harassment exploits unfairly the power inherent in the position of the faculty member or supervisor.

Sexual harassment also constitutes a form of sexual discrimination that is illegal under Title VII of the Civil Rights Act of 1964, Title IX of the Elementary/Secondary Education Act of 1972, as amended, and state law. Southeast Tech also recognizes that sexual assault, domestic violence, dating violence, and stalking may also be considered sexual harassment.

Students have the right to be free of sexual misconduct while pursuing their education at Southeast Tech which would include participating in any off-campus activity such as internships, clinical experiences, and preceptor experiences.

Students should immediately report any form of sexual misconduct to their instructor or the designated contact at Southeast Tech.