Course Syllabus

COURSE: **CIS 130 Introduction to Programming**
PREREQUISITE: none
CREDITS: 3
TERM: Spring 2013

INSTRUCTOR: Cindy Roller
OFFICE: Tech Center, Room TC202 **HOURS**: posted in TC202
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SCHOOL: Southeast Technical Institute
2320 N Career Ave., Sioux Falls, SD 57107

COURSE DESCRIPTION: This course introduces students to the terminology, fundamentals and application of a disciplined program development process. Basic programming and web concepts covered include: problem analysis; logic organization and design; creating user-friendly interfaces; working with intrinsic form controls and their properties, events, and methods; sequential, decision, and looping constructs; data types, variable definitions and scope; various debugging techniques; arrays; methods; object-oriented programming concepts; database access; and error trapping. Upon successful completion of this course, students will have obtained hands-on practice developing a variety of applications.

TEXT: **Programming in Visual C# 2008** by Bradley & Millspaugh

BASIS FOR EVALUATION: *Exams & quizzes (55% of grade)* - Four exams will be given and may consist of performance-based as well as objective questions such as coding/debugging, multiple choice, true/false, etc. Make-up exams are not available. 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 may be given unannounced after material has been assigned, 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) – Programming assignments and miscellaneous exercises will be given throughout the semester, usually a minimum of one program per chapter. All assignments will be given a due date. **Failure to turn in an assignment within four days of the due date will result in a 0% for that assignment unless prior arrangements are made with the instructor**. Students may receive partial credit for partial solutions. Since the mission of Southeast Technical Institute is to educate people for employment in technical careers, it's important that students 'Do the Work!'

Attendance/Class Participation, Preparation & Team Activities (5% of grade) - It is expected that students demonstrate responsibility and commitment to learning by submitting all assignments on or before the designated due date, by being in class on time and by attending and actively participating in all scheduled classes and team projects. Students should check their school e-mail at least twice a day for any communication from their instructor(s).

Additional study time outside of class is required. Each individual student's readiness to participate in class activities may be evaluated regularly. Examples: A pre-assignment must be

turned in before class; the student has to pass a quiz over the assigned material; student must show the instructor their completed work when they enter the classroom. Lack of preparation may result in loss of activity points and/or the inability to move into a planned group activity.

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. Severe unethical behavior may result in a failing grade for the course, and possible suspension from school.

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

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

Science and Technology: Technical competence including knowledge of technology and/or scientific principles as these 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.

Instructors and faculty members 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.

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 disciplinary action.

COURSE ORGANIZATION: The following schedule is estimate, and subject to change due to class progress, cancellation of class due to weather, etc. It is believed that all topics listed will be covered. Please make note of any changes announced by your instructor.

Chapter	***Topic***	***Tentative Week***
1.	Introduction to Programming and Visual C#	
2.	User Interface Design	
	Exam 1 Chapters 1-2 (1-Hour Objective / Online)	**3**
3.	Variables, Constants, and Calculations	
4.	Decisions and Conditions	
	Additional Exercise(s) on Problem Analysis & Design Solutions	
5.	Menus, Common Dialog Boxes and Methods	
	Exam 2 Chapters 3 – 5 (Performance)	**8 or 9**
6.	MultiForm Projects	
7.	Lists, Loops, and Printing	
8.	Arrays (Partial Chapter Coverage)	
	Exam 3 Chapters 6 - 8 (Performance)	**12 or 13**
9.	Web Applications	
10.	Database Applications	
11.	Data Files	
	Exam 4 Chapters 10 & 11 (Performance)	**16**