

**South Texas College
Division of Math & Science
Computer Science Department Master Syllabus**

Fall 2008

Chair's Information:

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Course Information:

Course Name: Computer Programming

Course #: COSC 1430

Catalog Course Description:

This course is an introduction to computer programming using Visual Basic .Net. Emphasis is placed on structured design, graphical user interfacing, and documentation. It includes coverage of language syntax, processing, elementary file processing and the access, manipulation and use of databases by Visual Basic .Net designed applications.

Prerequisite: *COSC 1301 with a grade of "C" or better.*

Recommended: *COSC 1315 with a grade of "C" or better.*

Departmental/Program Learning Outcomes:

- Students will be able to demonstrate the ability to analyze, design, develop and test business applications using modern programming tools.
- Students will be able to use critical thinking skills to evaluate business computing problems and explore options for the design of a business programming solution.

Course Learning Outcomes:

At the conclusion of this course, students will be able to:

- Demonstrate the ability to analyze and define business problems from a programming perspective.
- Demonstrate an understanding of the Visual Basic.Net object-oriented environment.

- Develop complete event driven programs that include specification, design, code, debugging, testing, and documentation.
- Demonstrate programming skills with conditional structures and looping structures.
- Construct user-defined function.
- Demonstrate knowledge in using array structures.
- Demonstrate programming skills in accessing data from external files.

Departmental Course Requirements, Evaluation Method, and Grading Criteria:

Departmental Course Requirements:

Evaluation Method:

This section should reflect the instructor’s section requirements, methods of evaluation, and grading policy. A variety of tools could be used to evaluate the students’ performance such as programming assignments and projects, in-class quizzes/examinations, final exams, written assignments, oral presentations and other classroom activities. Each instructor will have at his/her discretion, the ability to choose or combine methods to evaluate student performance. A general rubric(s) could be used to guide in the grading of a chosen evaluation tool.

Grading Criteria:

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

Sample Course Grade Breakdown:

Notebook:	5%
Quizzes:	5%
Main Project.....	10%
Exam 1:	20%
Exam 2:	20%
Final Exam:	25%
Programming	
Assignments/Exercises/ SQL:.....	15%
Total.....	100%

Required Textbook & Resources:

Title: Microsoft Visual Basic.Net An object oriented approach: introductory
Author: Michael Ekedahl and William Newman
Publisher: Course Technology: Cengage Learning
ISBN: 0-619-01658-2

1. One binder or notebook.
2. USB drive with 128 MB or more of storage capacity.
3. Visual Studio 2005 (VB compiler) – recommended.

Developmental Studies Policy Statement:

The College's Developmental Education Plan requires students who have not met the college-level placement standard on an approved assessment instrument in reading, writing, and/or mathematics to enroll in Developmental Studies courses including College Success. Failure to attend these required classes may result in the student's withdrawal from ALL college courses.

Statement of Equal Opportunity:

No person shall be excluded from participation in, denied the benefits of, or be subject to discrimination under any program or activity sponsored or conducted by South Texas College on the basis of race, color, national origin, religion, sex, age, veteran status or disability.

Alternative Format Statement:

This document is available in an alternative format upon request by calling (956) 618-8302.

ADA Statement:

Individuals with disabilities requiring assistance or access to receive services should contact disability Support Services at (956) 872-2173.