



**ADVANCE EVENT-DRIVEN PROGRAMMING**  
COURSE SYLLABUS

Date 11/17/11

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**COURSE NUMBER:** CPT 206

**PREREQUISITE(S):** CPT 185 with a grade of "C" or better.

**CO-REQUISITE(S):** None

**COURSE DESCRIPTIONS** This course is a study of advance techniques for programming with an event driven language. (Visual Basic .NET)

**TEXTBOOK(S):** Michael Ekedahl. Programming with Microsoft Visual Basic 2008. An Object-Oriented Approach. Third Edition. Course Technology. ISBN: 10: 0-324-78624-7

**REFERENCE(S):** None

**OTHER REQUIRED MATERIALS, TOOLS, AND EQUIPMENT:** USB Disk Drive (min capacity 4 Gb.)  
Student should have access to Blackboard.  
Read protocol on Blackboard for Grading matrix to be used in evaluating assignments

**METHOD OF INSTRUCTION:** Lecture/class assignments/lab exercises

**GRADING SYSTEM:**

90	-	100	=	A
80	-	89	=	B
70	-	79	=	C
60	-	69	=	D
Below	-	60	=	F

**GRADE CALCULATION METHOD:**

Tests	=	25%
Hands-on Projects	=	50%
Final Exam/Project	=	25%
	=	<u>100%</u>

**ATTENDANCE  
POLICY:**

No make-up test will be given. You may miss one test and that zero will be replaced with the final exam grade.

The student is responsible for punctual and regular attendance in all classes, laboratories, clinical, practica, internships, field trips, and other required class activities. The College does not grant excused absences; therefore, students are urged to reserve their absences for emergencies. When illness or other emergencies occur, the student is responsible for notifying instructors and completing missed work if approved for late submission by instructors.

The student is tardy if not in class at the time the class is scheduled to begin and is admitted to class at the discretion of the instructor.

Instructors maintain attendance records. However, it is the student's responsibility to withdraw from a course. A student enrolling in and attending at least one course session remains enrolled until the student initiates a withdrawal.

Withdrawal Policy: During the first 75% of the course, a student may initiate withdrawal and receive a grade of W. A student cannot initiate a withdrawal during the last 25% of the course. Extenuating circumstances require documentation and approval by the appropriate department head and academic dean.

Absences for Religious Holidays: Students who are absent from class in order to observe religious holidays are responsible for the content of any activities missed and for the completion of assignments occurring during the period of absence. Students who anticipate their observance of religious holidays will cause them to be absent from class and do not wish such absences to penalize their status in class should adhere to the following guidelines:

1. Observance of religious holidays resulting in three or fewer consecutive absences: Discuss the situation with the instructor and provide written notice at least one week prior to the absence(s). Develop (in writing) and instructor-approved plan which outlines the make up of activities and assignments.
2. Observances of religious holidays resulting in four or more consecutive absences: Discuss the situation

with the instructor and provide the instructor with written notice within the first 10 days of the academic term. Develop an instructor-approved plan with outlines the make up of activities and assignments.

**CLASSROOM  
CONDUCT:**

**ACADEMIC DISHONESTY:** Students are expected to uphold the integrity of the College's standard of conduct, specifically in regards to academic honesty. All forms of academic dishonesty including, but not limited to, cheating on assignments/tests, plagiarism, collusion, and falsification of information will call for disciplinary action. Disciplinary action imposed may include one or more of the following: written reprimand, loss of credit for assignment/test, termination from course, and probation, suspension, or expulsion from the College. For further explanation of this and other conduct codes, please refer to the Student Handbook.

**CELLULAR PHONES AND PAGERS/BEEPERS:** Cellular phones, pagers and beepers are not permitted to be turned on or used within the classroom. Use of these devices during classroom time will be considered a violation of the student code as it relates to “disruptive behavior.”

**CLASS/LAB  
PROCEDURES:**

There will be written/oral test on designated chapters. You will complete tutorial exercises and assigned projects within an assigned time. Missed projects will receive a penalty of ten (10) points for each class day the assignment is late and will be accepted up to ten (10) class days past the due date. You will be assigned class exercises to complete as homework.

**The Learning Center**, located in the rooms E-2 & E-5 of the East Building, provides computers for your use. Check the website <http://www.sccsc.edu/resources/tutoring/tlc> or call 592-4968 for current semester operating hours.

**ACCOMMODATIONS:**

Students who need special accommodations in this class because of a documented disability should notify Student Disability Services by calling (864) 592-4818, toll-free 1-800-922-3679; via email through the SCC web site at [www.sccsc.edu/resources/disabilities](http://www.sccsc.edu/resources/disabilities); or by visiting the office located in the East Building Room 30-B on the SCC Central campus. Contacting Student Disability Services early in the semester gives the College an opportunity to provide necessary support services and appropriate

accommodations.

**Inclement Weather Schedule:**

- Check SCC Web Site: [www.sccsc.edu](http://www.sccsc.edu)
- Tune to **Channel-7** Local T.V. Station (CBS)
- Tune to an FM/AM Local radio station

**Program Department Chair**

Mrs. Marcia Schenck  
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**COURSE OUTCOMES  
& OBJECTIVES:**

**Upon satisfactory completion of this course, the student will be able to:**

- I. Explain the Visual Basic.NET logic structure, design/create a Visual Basic.NET project
  1. Understand Visual Basic.NET and its role in the computer industry
  2. Learn the Visual Basic.NET logic structure
  3. Start Visual Basic.NET
  4. Plan a program
  5. Access the Visual Basic.NET Help library
  6. Create a new project
  7. Save a project
  8. Create control instances on a form
  9. Use the code window
  10. Run a completed program
  11. Debug a program
- II. Processing Text Files with Arrays and Lists
  1. Process textual data
  2. Use Arrays to manage a lists of data
  3. Parse input lines
  4. Sort Arrays
  5. Write to a sequential file
  6. Group items using structures
  7. Create instances of the ComboBox and ListBox controls to work with lists
  8. Print the program

### III. Database Processing

1. Create a menu system for a form
2. Create event handlers for menus
3. Understand the basic of ADO.NET
4. Define a connection to a database
5. Use a DataAdapter to retrieve data from a database
6. Use the DataSet Class
7. Bind controls to DataSet
8. Use the ControlBindingsCollection
9. Modify a database record
10. Count Records

### IV. Create a Visual Basic.NET project working with multiple database tables

1. Understand the components of a menu system
2. Add a menu system to a program
3. Create a Data control to connect to a database
4. Set properties of control to interact with a database
5. Write Visual Basic.NET code to locate, add, change, and delete information in a database
6. Locate records in a database using a search string
7. Validate user input
8. Write Visual Basic.NET code to detect errors that occur while a program is running

### V. Dialog Controls Common to Windows and Structured Error Handling

1. Create an error handler that will execute when a run time error occurs
2. Use OpenFileDialog and SaveFileDialog controls
3. Use RichTextBox control
4. Work with rich text files
5. Handle resize events
6. Format the contents of a RichTextBox
7. Use zooming and justification with a RichTextBox

## VI. Creating a multiple Document Application

1. Learn about the type of forms in a MDI
2. Merge Menus in a MDI application
3. Use the With statement to reference objects
4. Share code between forms
5. Understand the role of standard forms in an MDI application