El Centro College
ITSE 2434
ADVANCED VISUAL BASIC PROGRAMMING
Syllabus

COURSE DESCRIPTION

Prerequisites: ITSE 1432 or instructor approval.

Continuation of Visual Basic.NET programming using advanced features of the .NET Framework Class Library.

This is a four (4) credit hour course. (3 Lec., 4 Lab.)

WECM END-OF-COURSE OUTCOMES: Design and write documented Visual Basic.NET programs with Graphical User Interface (GUI); use ActiveX Data Objects (ADO); and implement a client-server application.

STUDENT LEARNING OUTCOMES:

Upon successful completion of ITSE 2434, students will be able to:

- **Identify** and use higher-level software development/database skills and knowledge needed to advance their careers.

- **Produce** Visual Basic.NET programs utilizing advanced features of Visual Studio including client-server applications using ActiveX, and data objects.

- **Reinforce skills** by selecting and applying appropriate visual studio-related options applied to programs based on assignment criteria.

- **Demonstrate** advanced knowledge of Visual Basic.NET by developing and writing documented programs using Graphical User Interface (GUI), designing, debugging and analyzing program code.

COURSE MATERIALS


USB Flash Drive 1G Recommended

A student of this institution (El Centro College) is not under any obligation to purchase a textbook from a university-affiliated bookstore. The same textbook may also be available from an independent retailer, including an online retailer.
Major Course Requirements

Students will participate in Discussions Boards addressing topics in each lecture.
Students will complete lab exercises and a final project which include:

- Accessing database files within Visual Basic.NET
- Programming with Web forms
- Saving data and objects in files
- Writing Visual Basic.NET syntax for programs involving graphic methods to draw shapes and lines and other graphics and animation
- Utilize Crystal Reports to create data reports
- Create a multiple document project with parent and child forms

Two Major Tests and a Final Project will evaluate the student’s understanding of advanced Visual Basic.NET programming concepts and utilize their course knowledge.

Subject Matter

Topics covered in the lecture portion of the course include:

- Multiple forms, standard modules & menus
- Arrays and more
- Files, printing and structure
- Working with Databases
- Developing Web applications
- Classes, collections and Inheritance

Disclaimer

The provisions contained in this syllabus do not constitute a contract between the student and El Centro College. These provisions may be changed at the discretion of the Coordinator/Instructor. When necessary, appropriate notice of such changes will be given to the student.

The instructor-of-record may provide additional information to enhance the course to meet the needs of the enrolled students, provided that the enhancements do not conflict with the official course syllabus.

Policies

Students should click on the links below and read all of these policies.

- General institutional policies
- Course-related institutional policies