COURSE DESCRIPTION

BCIS 1431
Prerequisites: BCIS 1405 or COSC 1401 or demonstrated competence approved by the instructor.

Introduction to business programming techniques using Visual BASIC with emphasis on the fundamentals of design, development, testing, implementation, and documentation. This course will fulfill DCCCD's degree requirements only if this course has been successfully completed and the date of the competition does not exceed 10 years.

Coordinating Board Academic Approval Number 1102025204

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

ITSE 1432
Prerequisites: Basic understanding of problem solving and logic structures used with computers obtained in ITSE 1429 or equivalent experiences approved by instructor consent.

A study of Visual Basic.NET (VB.NET) including data types, control structures, functions, syntax and semantics of the language, classes, class relationships and exception handling.

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

WECM END-OF-COURSE OUTCOMES: Implement VB.Net classes, objectives, and class relationships; develop and write documented programs applying Object Oriented principles using VB.Net; and create member functions using VB.Net and exception handling.

STUDENT LEARNING OUTCOMES:

Upon successful completion of BCIS 1431 and/or ITSE 1432, students will be able to:

- Identify Visual Basic.NET terms, data types, objects, syntax, control structures, concepts, purposes, classes and functions.

- Produce Visual Basic programs utilizing Visual Studio that include classes, relationships, objects, functions, exception handling techniques, typical database interfaces and security.

- Reinforce skills by choosing appropriate studio-related options, data/control structures to apply to programs based on assignment criteria.
• **Demonstrate** knowledge of Visual Basic.NET by developing and writing documented programs, 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** addressing topics in each lecture

Students will complete **lab exercises and a final project** which include:

- Developing an understanding of the .NET framework, the COM and DCOM models
- Illustrating common business applications used in office environments (payroll, accounts receivable, inventory, accounts payable, statistical analysis, forecasting & MIS)
- Utilizing Visual Basic.NET and event-driven logic (structure, controls, class objects & user interfaces)
- Applying traditional structured programming procedures (sort, find & display)
- Defining and using event procedures, functions & controls, constants, variables, data types & properties, logic & Boolean operators, & arrays
- Applying VB tools to debug & analyze programs

**Midterm** and **Final Exam** and a **Final Project** will evaluate the student’s understanding of Visual Basic.NET programming concepts and utilize their course knowledge.

**Subject Matter**

Topics covered in the lecture portion of the course include:

- Introduction to Programming and Visual Basic
- Creating Applications with Visual Basic
- Variables and Calculations
- Making Decisions
- Lists & Loops
- Procedures & functions
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