Prerequisite: ITSE 1430 C# Programming Language or instructor approval.

COURSE DESCRIPTION
Continuation of C# programming using advanced features of the .NET Framework Class Library.

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

WECM End-of-Course Outcomes: Design programs with Graphical User Interface (GUI) interactions; use ActiveX Data Objects (ADO); and design and implement a client-server application.

STUDENT LEARNING OUTCOMES:
Upon successful completion of ITSE 2453, students will be able to:
- Identify Advanced C# terms, syntax, data types, and relationships.
- Produce object-oriented programs utilizing studio development tools that include files, scripting troubleshooting, and advanced collections.
- Reinforce skills by reviewing for certification exams.
- Demonstrate knowledge of Advanced C# technologies by deploying a personal web site utilizing skills learned in this course.

COURSE MATERIALS

Joyce Farrell

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 **Discussion Boards** addressing topics in each lecture.
Students will complete **lab exercises** which include:

- Examining advanced C# elements to create, build, run and debug an application
- Utilizing software development & exploring different programming methodologies
- Writing Advanced C# syntax for programs involving conditional expressions & logical operators, components of a method, If and Switch statements, While for loops, Do while loops and For each loops, string classes, event-handling procedures, list boxes, table controls, combo boxes and radio buttons
- Creating Window-based applications

**Chapter Quizzes** will evaluate the student’s understanding of Advanced C# programming concepts and knowledge presented in each chapter.

Subject Matter
Topics covered in the lecture portion of the course include:
- Web Sites
- Interactive Web Pages
- Objective-oriented programming concepts
- Advanced Collections
- Files
- Navigation techniques
- User input controls and validation
- Client-side Scripting
- Website troubleshooting and deployment

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