COURSE DESCRIPTION

INEW 1440
Prerequisites: Programming courses in Visual Basic.NET, Java, C#, or other languages that may apply or instructor approval.

Server side web programming concepts to implement solutions for common web programming tasks. Includes Basic ASP.NET web controls, user management and authentication, state management, and development of database-driven web applications.

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

WECM END-OF-COURSE OUTCOMES:

Plan and develop a site using ASP.NET; develop ASP.NET websites using n-tier design; and analyze, design, and implement database models to support ASP.NET applications.

STUDENT LEARNING OUTCOMES:

Upon successful completion of INEW 1440, students will be able to:

- **Identify** ASP terms, syntax, concepts, purposes, structures, database-driven web applications and models.

- **Produce** server-based programs that include web controls, user management, authentication and state management.

- **Reinforce** skills by choosing appropriate data/control structures to apply to programs based on assignment criteria.

- **Demonstrate** advanced knowledge of ASP.NET by debugging and analyzing program code.

COURSE MATERIALS

(ISBN: 978-0-470-50221-1)

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 chapter.

Students will complete **lab exercises** and a **Project** which include:

- Building effective & attractive database-driven websites using:
  - .NET 4 framework, framework libraries, VB.NET language,
  - ADO.NET, ASP.NET, windows programming, WPF, SOAP and web services, Visual Studio, structured exception handling, .NET remoting, WCF, SML support, versioning and Global Assembly Cache (GAC)

Applying ASP.NET tools to debug and analyze code

**Two Major Tests** and completion of a **Project** will evaluate the student’s understanding of ASP.NET Programming concepts and knowledge presented in each chapter.

**Subject Matter**

Topics covered in the lecture portion of the course include:

- Getting Started with ASP.NET 4
- Building an ASP.NET website
- Designing your web pages
- Working with ASP.NET Server Console
- Programming your ASP.NET web pages
- Creating consistent looking websites
- Navigation
- User Controls
- Validating User Input
- ASP.NET AJAX
- jQuery
- Introducing Databases
- Displaying and Updating data
- LINQ and the ADO.NET Entity Framework
- Working with data – Advanced topics
- Security in your ASP.NET 4 website
- Personalizing websites
- Exception Handling, Debugging and Tracing

**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](#)