MONTGOMERY COLLEGE
Rockville Campus
Engineering, Physical and Computer Sciences Department
CMSC224 Web Application Using C# and ASP.NET

Instructor Information

Name: Office Location:
Mailbox: Office Phone:
Email:
Office Hours:

Course Information

Semester: Course CRN:
Class starts: Class ends:

Class Meetings: Classroom:
Midterm Exam: Final Exam:

Check MyMC class schedule for your Specific   Check MyMC class schedule for your
Deadline to Drop without a grade W or to change   Specific Refund Deadlines
from audit to credit or from credit to audit

Course Description

Examines developing web applications using C# and ASP.NET and introduces web services.
Students create applications using tools such as web Forms, Visual Studio.NET, ASP.NET, and
ADO.NET. Students also optimize applications using configuration, security, and
caching. **PREREQUISITE(S):** CMSC 140 *or consent of department. Three hours each week.*
Formerly CS 224.

3 semester hours
Course Outcomes

#	Upon completion of the course, the student will be able to:
1.	Describe the syntax and idioms of the C# programming language.
2.	Use the principles of object-oriented programming techniques using C#.
3.	Create programs that use flow control structures and exception handling.
4.	Configure the .NET Framework, ASP.NET, to use the response and request objects and to create a Web Application with Visual Studio.NET.
5.	Implement Basic State Management in Web applications using techniques such as cookies, hidden fields, query strings and session, application and global objects.
6.	Apply web controls such as validation controls to construct controls with code, templates with the repeater and data list controls, and to describe user controls, properties, and events.
7.	Configure a database and manipulate database records using .NET library.
8.	Explain, implement, and test Web services and deploy Web applications.

Course Materials

1. **Murach's C# 2015** by Joel Murach and Anne Boehm
Publisher: Murach
ISBN 978-1-890774-94-3

2. **Murach's ASP.NET 4.6 Web Programming with C# 2015 (6th edition)** by Mary Delamater and Anne Boehm
Publisher: Murach
ISBN: 978-1-890774-95-0

Companion Web Site: http://www.murach.com
Textbooks and other materials may be purchased through the bookstore.

Grade Basis

Final Project	25%
Quizzes on Reading Assignments	20%
Homework/Projects	55%
Total:	**100%**

Grading Scale:

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

General Class Policies

- ❖ You are responsible for all work missed, and for meeting assignment due dates when absent. Please call or email your instructor if you are going to be late or absent.
- ❖ You are strongly encouraged to contact your instructor at home by phone or e-mail if you are having difficulties, or have any questions about assignments.
- ❖ Please include your name and the course information in the submitted assignments.
- ❖ Incomplete assignments receive no more than 50% of the grade.
- ❖ Assignments are considered incomplete, if they do not compile, they do not contain reasonable comments.
- ❖ There is always a means to submit your assignments on time. Be creative, be persistent, and keep your instructor informed!
- ❖ All assignments (Tests, Quizzes, Assignments, and Projects) must be turned in on or before the due dates to receive full credits.
- ❖ Missed Quizzes, Assignments, and Projects: NO MAKEUPS without a doctor's excuse. If the Final Project is not submitted, the student will receive a grade of F for the course.

Course Topics

Topics
Textbook Murach's C# 2015
Chapter 1 How to get started with Visual Studio
Chapter 2 How Do Design A windows Form Application
Chapter 3 How to test and Code a Windows Form Application
Chapter 4 How to work with numeric and string data
Chapter 5 How to code control structures
Chapter 6 How to code methods and event handlers
Chapter 7 How to handle exceptions and validate data
Chapter 8 How to use arrays and collections
Chapter 9 How to work with dates and strings
Chapter 12 How to create and use classes
Chapter 13 How to work with indexers, delegates, events, and operators
Chapter 14 How to work with inheritance
Chapter 15 How to work with interfaces and generics
Textbook Murach's ASP.NET 4.5 web programming with C#2015
Chapter 1 An introduction to ASP.NET web programming
Chapter 2 How to develop a one-page web application
Chapter 3 How to use HTM5 and CSS3
Chapter 4 How to develop a multi-page web application
Chapter 5 How to test and debug an ASP.NET application
Chapter 6 How to use the standard server controls
Chapter 7 How to use the validation controls
Chapter 8 How to work with state
Chapter 9 How to use master pages
Chapter 10 How to use themes
Chapter 12 An introduction to database programming
Chapter 13 How to use SQL data sources
Chapter 14 How to use the GridView control
Chapter 15 How to use the DetailsView and FormView controls
Chapter 16 How to use the ListView and DataPager controls
Chapter 17 How to use object data sources
Chapter 18 How to secure a web site
Chapter 19 How to authenticate and authorize users
Chapter 20 How to use email, custom error pages, and back-button control
Chapter 21 How to configure and deploy a web application
Final Project Due