

INT422 - Web Programming on Windows

Course Introduction

Course Overview

➤ Course Description:

- This course addresses the concepts, technical skills, and business knowledge required to develop data-driven web sites which are hosted on the Microsoft Web Platform.
- The course will focus on server-side ASP.NET programming technologies and the C# language. Students will also work with current and full-featured data access technologies, and interact with local and remote data stores.

➤ Course Outline

<https://ict.senecacollege.ca/course/int422>

➤ Academic Honesty Policy

<https://scs.senecac.on.ca/page/academic-honesty-policy>

Course Overview

- In this course, you will learn to create ASP.NET MVC applications with entry-level functionality, which are hosted on the Microsoft Web Platform.
- Through this process, you will learn foundational concepts, skills, and technologies that will enable you to create high-quality intermediate- and advanced-level web applications in the future.

Course Overview

➤ These foundations will include:

- ASP.NET
- The .NET Framework, and the Framework Class Library (FCL)
- The C# programming language
- Visual Studio 2015
- Web browser development tools
- Internet Information Services (IIS) Express
- Model-View-Controller (MVC) design pattern
- Event-driven programming
- Object-oriented and component-based software development
- User interface design fundamentals
- Configuring a personal computer to do INT422 course work
- Deployment to a hosted service provider (e.g. Windows Azure)
- SQL Server, and its Management Studio application
- Microsoft ADO.NET Entity Framework for data access

Course Overview

- In summary, you should have some experience and success in the following foundational concepts, skills, and technologies BEFORE starting this course:
 - Object-oriented software development using C++
 - HTML5 programming (JavaScript, the DOM, HTML, and CSS)
 - SQL DDL (data definition language) and DML (data manipulation language)
 - Windows operating system experience, so you can install, configure, and use new software
- In addition to the above list, you need the ability to learn quickly and effectively. You will be expected to learn (through watching, listening, reading, doing, and helping others) a significant amount of material.

Text Book & Reference

- Prerequisite:
 - OOP345 and INT322

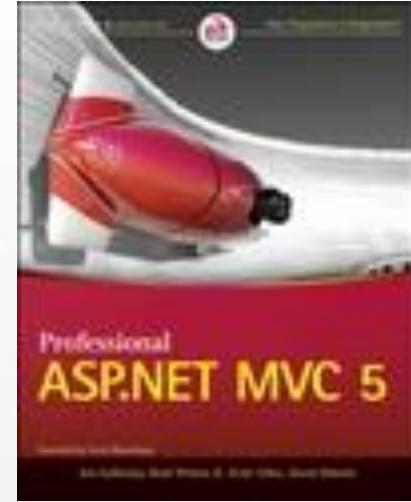
- Textbook

Professional ASP.NET MVC 5

by Galloway, Wilson, Allen, Matson

Published by Wrox, an imprint of Wiley

ISBN 978-1-118-79475-3



- Reference material:

- An extensive reading list of online and print material is provided with the detailed weekly outline. The student is expected to use this material extensively during the semester.

Graded Work

- Lecture notes, labs and assignments will be on the websites:
<https://scs.senecac.on.ca/~wei.song/int422/int422.html>
- Tests & Quizzes
 - There will be about 11 tests on Tuesday class
 - Test will be written **at the beginning of the class time slot (before the lecture)**
- Labs and assignments
 - There will be 9 or 10 assignments
- **No final exam**
- Grades will be posted on Blackboard

Graded Work

➤ Evaluation

9 or 10 assignments	50%
11 tests	50%
Final exam	0%
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Total	100%

➤ Promotion Policy: to obtain a credit in this subject, a student must:

- Achieve a passing grade on the term test(s)
- Achieve a passing grade on the overall course
- Successfully complete all assignments.
 - Submissions that do not meet specifications may be returned to the student for revision and resubmission.

How to use the course notes

- ▶ Every class/session will have notes posted on this web site.
- ▶ Study this page's URI to learn the naming convention for a specific notes page.
- ▶ Your professor plans to post the notes at least two days before the class/session begins. **Before you come into a class, *you are expected to read / skim / study / contemplate the topics covered in the notes.***
- ▶ The format and style of the notes pages will vary. At times, they will be terse, with headings and keywords that are intended to guide the student through the topics. At other times, they will be lengthy, with narrative that explains and supports the topics. Expect a full range of formats and styles between these extremes.
- ▶ Class/sessions are important. This is *not* a distance education (online) course. The notes do not attempt to capture everything that must be communicated in the process of learning a topic.

Expectation

➤ What do I expect from you?

- Be present. Be organized/don't fall behind.
- Be active in class/labs, Ask and answer questions.
- Be prepared for lecture classes:
 - ▶ Read and study the class notes page
 - ▶ Read and study the linked documents
 - ▶ Make your own notes, including questions that you have
- Be prepared for lab periods:
 - ▶ Read and study the current assignment
 - ▶ Practice its contents, and/or get started on its contents
- Write your own notes.
 - ▶ You must write your own notes during in-class and in-lab sessions

Expectation

➤ cont.

- That being said, you will encounter problems and delays. Please follow my general rule: If you cannot solve the problem within 20 to 30 minutes, then stop and set it aside. Seek help from your professor, or from a classmate who knows the solution to the problem or from google. Do not thrash. Do not attempt to 'wrestle the problem to the ground'. Others will not think any less of you when you ask for help. You're here to learn, so take advantage of the course's resources and delivery to help you learn.
- Learning strategy:
 - Getting the big picture (concepts, framework, architecture)
 - paying attention to details (coding, syntax, hands-on)
 - Thinking, memorizing and practicing!

Getting Started

- Get the required textbook, as shown on the Resources section on the course website.
- Learn how to use the professor's/course web site. It has professor contact information, and course-specific standard and information.

<https://scs.senecac.on.ca/~wei.song/>

➤ Set up your development environment:

If you want to do INT422 course work on your own personal computer, get and install Visual Studio 2015. The Microsoft Imagine webstore - Seneca enables you to get and use Microsoft software in your studies. More info is at this link.

In the MS Imagine Webstore, What you need is Visual Studio Enterprise 2015 with Update 3.

Thank You!