

## Advanced .NET Server Development: Course Introduction

Instructor: Amandeep S. Patti

# Welcome to My Class

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# Objectives

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- ▶ Introduce course
- ▶ Introduce tools, text, and resources used in this course
- ▶ Introduce ourselves





# Course Objectives

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- ▶ Learn to develop applications using advanced .NET technologies
  - ▶ Microsoft Entity Framework
  - ▶ ASP.NET MVC
  - ▶ Web API
  - ▶ TTD (Test Driven Development)
  - ▶ SSRS (SQL Server Reporting Services)
- ▶ Apply these technologies to build a Proof of Concept Prototype for the server portion of Capstone (or equivalent) project.





# Course Motivation

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- ▶ This is relatively a new course which was designed to:
  - ▶ Teach the technologies and techniques that have proved useful or problematic to past Capstone Groups
  - ▶ Respond to feedback from past Capstone students
  - ▶ Respond to feedback from various classes during 4th semester .NET courses together (Labs, Labs, Labs!)
  - ▶ Support students in their server side platform of choice (.NET)
  - ▶ Give you some cutting edge ASP.NET skills that are in high demand today!
  - ▶ Help you to ace your Capstone courses and amaze your potential customers!





# Course Strategy

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- ▶ This course has been designed with Capstone Based Learning (CBL) in mind so it should mesh well with all of your 5<sup>th</sup>/6<sup>th</sup> semester courses.
- ▶ There are two stages to this course:
  - ▶ Stage 1 – first 2/3 of the course (while you are gathering requirements and designing your Capstone systems) you will learn primarily through walkthroughs and labs the skills you need to develop your Capstone Server prototype
  - ▶ Stage 2 – last 1/3 of the course you will apply what you have learned to your Capstone projects
- ▶ This course will **NOT** rush you into coding for your Capstone nor will it hold you back!





# Course Schedule

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- ▶ The Course Schedule is available in the SLATE Calendar
- ▶ Remember that the Course Schedule is preliminary and tentative and may change depending on our progress, school closures and your feedback
- ▶ The SLATE Calendar is provided for all of us to plan our work.



# Resources for this course

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- ▶ [Sheridan's site](#)
  - ▶ to reach Access Sheridan, SLATE and other information
- ▶ [SLATE](#)
  - ▶ for class slides, announcements, calendar, samples and more!
- ▶ [Sheridan Library EBooks \(including Safari Books Online and Books24/7\)](#)
- ▶ [Lynda.com](#)
  - ▶ for great videos on C#, Visual Studio, SQL Server, ASP.NET, etc!
- ▶ [Sheridan MSDN Academic Alliance](#)
  - ▶ for Microsoft Developer Tools such as Visual Studio and SQL Server!





# More Resources for this course

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- ▶ Channel 9

- ▶ for more great videos on Microsoft developer tools!

- ▶ LINQPad

- ▶ for testing and experimenting with C# expressions, statements and fragments



# SLATE

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- ▶ We will be using SLATE extensively in this course. Specifically, SLATE will be used for:
  - ▶ Quizzes
  - ▶ Assignments
  - ▶ Distributing Materials (Slides, Code, etc.)
  - ▶ Calendar
  - ▶ Announcements
  - ▶ Sharing useful links
  - ▶ Grading
  - ▶ Discussion threads



# SLATE Deliverables

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- ▶ **It is your responsibility to:**
  - ▶ check to ensure that you have completed and submitted all required deliverables (quizzes, tests, exams, assignments, labs and/or surveys) on time using SLATE
  - ▶ Students who do not submit a required deliverable using SLATE on time will be subject to the late penalties





# Course Evaluation

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- ▶ **Two Exams (50%)**
  - ▶ Midterm in week 7 (25%)
  - ▶ Final Exam in week 14 (25%).
- ▶ **8 In Class Labs (20%)**
  - ▶ Regular attendance is critical!
- ▶ **3 Quizzes (10%)**
  - ▶ Theory is important too!
- ▶ **Capstone Server Prototype (20%)**
  - ▶ Evaluation to focus on technical evaluation (code, techniques, patterns, UI, etc.)

To pass this course you must meet **ALL** of the requirements as mentioned in Course Outline.



# About Us

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- ▶ Introduce myself
- ▶ Introduce classmates
- ▶ Present any Accommodations to me during the break or after class
- ▶ Student Advisement Centre provides additional help and resources for students



# What you need for this course

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- ▶ Laptop for class work, assignments, labs, quizzes, etc.

- ▶ MS Visual Studio 2017



- ▶ MS SQL Server 2012/2014 (Optional)



- ▶ MS Report Builder



- ▶ Course Materials: [SLATE](#)





# How to reach me

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- ▶ **Email:**

- ▶ [amandeep.patti@sheridancollege.ca](mailto:amandeep.patti@sheridancollege.ca)

- ▶ **Meeting Hours:**

- ▶ With prior appointment only



# Questions / Queries

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# Break

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