

EC512

Course Overview

Goals

- Examine the technologies and design of enterprise web solutions.
- Examples:
 - Commerce (amazon.com)
 - Data serving (google.com, WebMD, weather.com)
 - Corporate services (internal and external, product support)
 - Consumer (online games, buying services)
 - Personal expression (Facebook, YouTube, Picture caches etc.)
 - Three tier (stock trading)
 - Telecom (wireless, VoIP, Skype, etc.)
 - Cloud services

Goals –contd.

- Examine emerging technologies and current ongoing development (e.g., W3C, open source, vendors)
- Look *under the hood* at how these technologies work (e.g. asp.net, AJAX, SQL Server)
- Learn the essentials of a modern development environment and associated technologies (e.g., Visual Studio 2017)
- Explore the capabilities of a *framework* for development (e.g., .NET FCL, ASP.NET)

Requirements

(Everyone wants an A!)

1. Attend lectures for introductions to topics.
2. Independent study to increase the depth of knowledge on each topic. This will require a substantial number of hours of reading both online and offline. You can't get through this course based only on the lectures and my slides!
3. Design and implementation through lab assignments (individual efforts).
4. Contribute by class participation.

Topics

- See course syllabus on the course web site.

What makes this a graduate course?

- It's not the advanced math (we don't have any)
- It's not the amount of work (at the level of any 4 credit course)
- It's not that there is lots of research
- It's not that the concepts are more difficult (they are in some cases)
- So?

The Answer

- You will not be able to learn everything from lectures or the materials provided.
- You will not be driven by a textbook chapter by chapter.
- You will require a great deal of will power to engage in independent learning. For some of you this may be a new experience.
- I will act as a guide and provide clues along the way, but YOU will have to take the initiative.

Pitfalls

- If you always put things off
- If you need to be driven by deadlines
- If you have trouble finding solutions on your own
- If you usually do the minimum to get by
- If you expect others in your group to bail you out

Maybe this course isn't for you!

Grading Criteria

- I don't give out busy work homework assignments.
- You are expected to have the ability to engage in substantive self-study rather than busy work.
- The course provides guidance and basic knowledge.
- Assignments and attendance will determine your grade.
- The intellectual level and effort on the course assignments will be the single most significant determinant of your grade.
- This course is designed to be a competitive environment.