

Welcome to

SWE 642

Software Engineering for the World Wide Web

Jeff Offutt

History of the Class

- Spring 1999 – Goma, Ammann and Offutt decided to create a new class to teach SWE students how to build web apps
- Fall 1999 – First offering of SWE for the WWW
 - I barely knew Java and learned J2EE “on the fly”
 - Most students did not know Java or web programming
 - No courses at other universities to borrow from
- Fall 2004 – All students knew Java, some knew J2EE
- Now many students know J2EE ...
 - Some students know basics of technologies
- Very few students understand all the concepts

Plans for the Future

- We are considering introducing an additional course
 - SWE 642 : As is, introduction to web software design & development, introduction to web programming technologies
 - SWE 642++ : A more advanced course emphasizing more design, use of frameworks, new technologies, implementing security, ...
 - SWE 642++ will require SWE 642 or prior experience
- Any feedback or suggestions you can give will be appreciated

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Class Overview

- Class URL : <http://www.cs.gmu.edu/~offutt/classes/642/>
- Contact info, TA
- Objective : How to build Amazon – solid engineering
- Readings : Posted in schedule
- Quizzes : Not this semester
- Homework : Smaller, targeted, programming assignments
 - Post on your class website by 4:30 on the due date (usually Tuesday)
 - If you are late, send email to TA and professor
- Midterm : 5 October, will cover first half of the semester
- Final : 14 December, will focus on second half

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Prerequisites

- SWE 619 or (CS 540 & CS 571 for CS students)
 - Being really good at OO programming – abstractions, exceptions, iterations, polymorphism, generics, concurrency, contracts, object specifications
 - Beyond any undergraduate curriculum this side of MIT
- Intent : Prerequisites define what you need to know before taking a class to succeed in that class
- Not knowing the material means you are taking the class “at risk”
 - That is your responsibility
- GMU’s registration system allows you to register for any class on campus

Please do not ask if you “*can take the class without the prerequisites*” ... the question is meaningless to me
Patriot Web allows it, but I advise against it.

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Grading Policy

- 30% : Homeworks
- 30% : Midterm
- 40% : Final – closed book, in-class

- > 90% : definitely an A or A- (possibly slightly lower)
- > 80% : definitely a B or A (possibly slightly lower)
- > 70% : definitely a C, B or A (possibly slightly lower)
- One A+ — the top grade in the class

- In the past, usually about 40% As and 50% Bs

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Schedule

- URL :
<http://www.cs.gmu.edu/~offutt/classes/642/sched.html>
- I may need to modify the material this semester – schedule is approximate
- Please read before class
- Slides and homeworks posted before class
 - If I update slides from what's there, I will add a “new” image to the slides
- Web resources are there for your benefit—lots of good stuff !

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Blackboard Use

- All GMU students have blackboard accounts
 - <https://courses.gmu.edu/>
 - Login with your standard GMU account (email)
- Questions should be posted to an appropriate thread
 - Answered by instructor or TA
 - Questions and answers available for all to see
- Submit source files to blackboard
 - Detailed instructions will be in assignments
 - This is in addition to posting links to executables on your class web page

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Online Lecture Delivery

- I will be broadcasting lectures via the internet
 - Synchronous delivery
 - Using Adobe Connect (at least for the first half of the course)
- This is a trial, there is no official “Net section”
- We will try some experimental tactics, so expect some rough spots
 - But don’t worry ... this technology will NOT require 20 minutes every lecture to reboot the software or server
- Meeting URL : <http://webcon.gmu.edu/swe642fall2010/>

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Online Participants Rules

- Login as Guest, with your name as it appears on the roster
- Online participants must have a headset with microphone
 - <http://www.walmart.com/ip/Panasonic-KX-TCA60-Hands-Free-Headset/4324510>
 - Keep your microphone on mute until you ask a question
- Try it once before class to make sure you can join
- Send questions and messages to people
 - “presenter” for technical questions
 - “person” for private questions
 - “everyone” for questions about the class or material
- Don’t use the emoticons too much

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Tonight's Agenda

1. Administrative Overview
2. Introduction to Web Site Engineering
3. Responsibilities of Students
4. Networking Basics Behind the Web