

Introduction

(Tue Sep 03, 2013 10:10 AM)

Read Head First ch. 1

Collaboration Exercises

(Thu Sep 05, 2013 10:10 AM)

Divide into groups of 4 students. If necessary there can be groups of 5, but no 1, 2 or 3.

Each student needs 4 sheets of paper.

 [Collaboration Exercise.ppt](#)

More Collaboration Exercises

(Tue Sep 10, 2013 10:10 AM)

Divide into groups of 4 students.

Each student needs 4 sheets of paper.

 [Collaboration Exercise.ppt](#)

Requirements

(Thu Sep 12, 2013 10:10 AM)


Read Head First ch. 2

Pair Programming

(Fri Sep 17, 2010 10:10 AM)

Read *All I really need to know about pair programming I learned in kindergarten*

 [Collaboration Exercise.ppt](#)

 [All I really need to know about pair programming I learned in kindergarten](#)

 <http://puttingtheteaintoteam.blogspot.com/2009/10/pair-programming-interviewsauditions.html>

 <http://www.codinghorror.com/blog/2006/05/the-ten-commandments-of-egoless-programming.html>

Software Process

(Thu Sep 19, 2013 10:10 AM)

Read Head First ch. 3

Read *Managing the Development of Large Software Systems*

 [Managing the Development of Large Software Systems](#)

 <http://www.extremeprogramming.org/>

 <http://www.agile-process.org/>

Project Planning

(Tue Sep 24, 2013 12:00 AM)

Read Head First ch. 4

More Project Planning

(Thu Sep 26, 2013 10:10 AM)

Read *Use Case Examples -- Effective Samples and Tips*

 [Use Case Examples -- Effective Samples and Tips](#)

Scrum - guest lecture by Andrew Clark Ingraham

(Tue Oct 01, 2013 10:10 AM)

Every team should bring its user story index cards to class today, they will be needed for an exercise.

Individual Assignment 2 due today. Its a short pre-survey about familiarity with testing techniques. An individual link will be sent by email to every student after the project proposals have been submitted.

 [Agile Manifesto](#)

 [Technical Debt](#)

 [Definition of Done](#)

 [Andrew Clark Ingraham's presentation on Scrum](#)

Design

(Thu Oct 03, 2013 10:10 AM)

Read Head First ch. 5.

 [CRC card images found by google](#)

 [CRC cards for XP](#)

 [CRC Cards Tutorial](#)


UML

(Tue Oct 08, 2013 12:00 AM)

Read Head First app. i

 [OMG UML Resources](#)

 [google images class diagrams](#)

 [google images sequence diagrams](#)

 [google images state diagrams](#)

 [UML Tutorial](#)

More UML

(Thu Oct 10, 2013 10:10 AM)

 [UML Tutorial](#)

 [OMG UML Resources](#)

 [google images class diagrams](#)

 [google images sequence diagrams](#)

 [google images state diagrams](#)

 [UML Diagrams Details and History](#)

Social Software Engineering - guest lecture by Swapneel Sheth

(Tue Oct 15, 2013 10:10 AM)

 [ShethGuestLecture.pdf](#)

Coding Practices

(Thu Oct 17, 2013 10:10 AM)

Read Head First ch. 6-6.5

 [subversion vs. git](#)

 [Best Practices for Writing Super Readable Code](#)

Midterm Exam

(Tue Oct 22, 2013 10:10 AM)

Read Head First ch 1-5 and app i.

Writing Secure Code

(Thu Oct 24, 2013 10:10 AM)

Read *Top 10 Secure Coding Practices*

 [Top 10 Secure Coding Practices](#)

 [How to Write Completely Unreadable Code](#)

Introduction to Testing

(Tue Oct 29, 2013 10:10 AM)

Read Head First ch. 7

More Testing

(Thu Oct 31, 2013 10:10 AM)

Read Head First ch. 8

 [Cohesion And Coupling](#)

 [Strive for low coupling and high cohesion: What does that even mean?](#)

Equivalence Partitions and Boundary Analysis

(Thu Nov 07, 2013 12:00 AM)

Read Patton ch 5.

 [Ron Patton. Software Testing \(2nd ed\). chapter 5](#)

Metamorphic Testing

(Tue Nov 12, 2013 10:10 AM)

Read Christian Murphy, Kuang Shen and Gail Kaiser. [Automatic System Testing of Programs without Test Oracles](#). International Symposium on Software Testing and Analysis, July 2009.

Read Patton ch. 7 (not about metamorphic testing, but useful for your individual assignments).

 [Automatic system testing of programs without test oracles](#)

[1 2 3 Testing](#)[Ron Patton, Software Testing \(2nd ed\), chapter 7](#)[Metamorphic Runtime Checking of Applications without Test Oracles](#)

Static Testing (Inspection)

(Thu Nov 14, 2013 10:10 AM)

Read Patton ch. 4 and 6

[Ron Patton, Software Testing \(2nd ed\), chapter 6](#)[Michael Fagan Associates](#)[Michael Fagan, Advances in Software Inspections](#)[Ron Patton, Software Testing \(2nd ed\), chapter 4](#)

Code Inspection, Integration and System Testing

(Tue Nov 19, 2013 10:10 AM)

Read Head First ch 9-10

[Generic Code Review Checklist](#)[Java checklist](#)[Python checklist](#)[Ruby checklist](#)

Completing the Software Process

(Thu Nov 21, 2013 10:10 AM)

Read Head First ch. 11-12

Refactoring, Design Patterns

(Tue Nov 26, 2013 10:10 AM)

Read Head First appendixes

[Design Patterns](#)[Refactoring](#)[Refactoring Tips by Martin Fowler](#)[Design Patterns for 70% of the Programmers in the World](#)

Project Swap, Selected Demos

(Tue Dec 03, 2013 10:10 AM)

"Volunteer" demos and then time for meeting with other teams.

Final Exam

(Thu Dec 05, 2013 10:10 AM)