CS 310: Software Engineering II
Marshall University, Spring 2009

January 13, 2009

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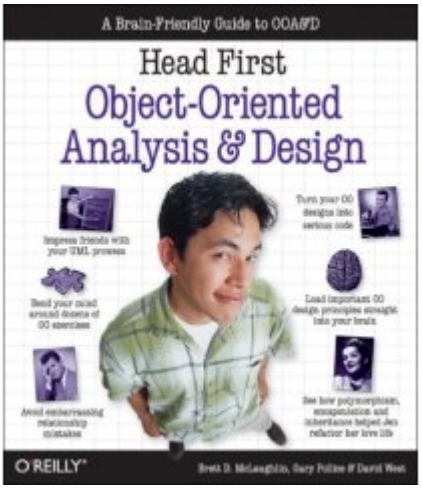
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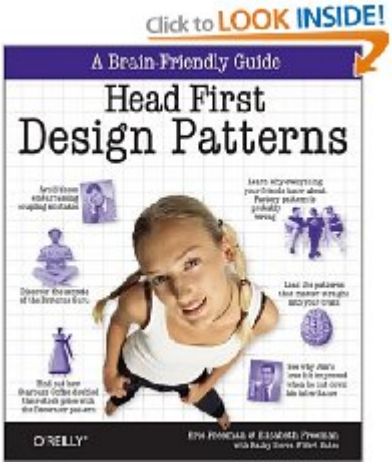
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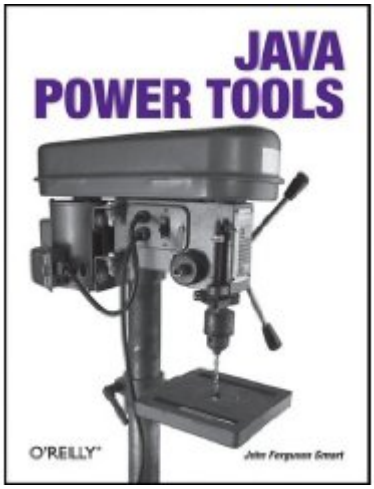
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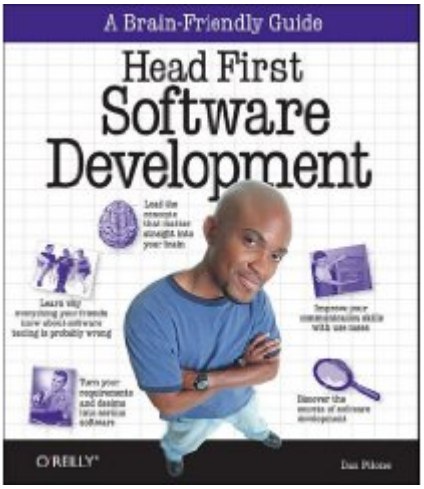
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1 Course Description

Software engineering is an *engineering discipline* which encompasses all aspects of software production from requirements elicitation, system specification, design, implementation, testing, deployment, and maintenance. In this course, you will learn about software design, software development environments, software build tools, people and process management, version control and release management, software testing, and emerging technologies. Due to the broad nature of the subject area, this course will place emphasis on the breadth of the subject matter rather than on an in-depth study of few topics.

2 Prerequisites

- CS 305: Software Engineering I with a grade of C or better.

3 Instructor information

- Dr. V.N. Gudivada, Gullickson Hall Room 205A, Phone: 304-696-5452, Email: gudivada@marshall.edu. Please use muOnline/Blackboard email for course related inquiries.

4 Course schedule and office hours

- This course meets on TuTh 9.30 AM – 10.45 AM in GH 206A.
- Office hours
  - Tuesdays and Thursdays: 2.00 PM – 3.30 PM.
  - Wednesday: 2.00 PM - 5.00 PM.
  - Other times by appointment.

5 Instructional materials

- *Required Textbook*:

[1] Andrea Steelman and Joel Murach. *Murach's Java Servlets and JSP*. Mike Murach & Associates, second edition, 2008. ISBN: 1890774448.

- *Reference Textbooks (no need to buy)*:

[2] Bryan Basham, Kathy Sierra, and Bert Bates. *Head First Servlets and JSP*. O'Reilly Media, Inc., second edition, 2008. ISBN: 0596516681.

[3] Elisabeth Freeman, Eric Freeman, Bert Bates, and Kathy Sierra. *Head First Design Patterns*. O'Reilly Media, Inc., 2004. ISBN: 0596007124.

[4] Brett D. McLaughlin, Gary Pollice, and Dave West. *Head First Object-Oriented Analysis and Design*. O'Reilly Media, Inc., 2006. ISBN: 0596008678.

[5] Dan Pilone and Russ Miles. *Head First Software Development*. O'Reilly Media, Inc., 2008. ISBN: 0596527357.

[6] Alan Shalloway and James Trott. *Design Patterns Explained: A New Perspective on Object-Oriented Design*. Addison-Wesley Professional, second edition, 2004. ISBN: 0321247140.

[7] Dale Skrien. *Object-oriented Design Using Java*. McGraw-Hill Education, 2008. ISBN: 007126387X.

[8] John Ferguson Smart. *Java Power Tools*. O'Reilly Media, Inc., 2008. ISBN: 0596527934.

- Additional resources: Course notes, other handouts, URLs for additional Web resources will be available on the muOnline/Blackboard system.

6 Course topics at a glance

- Software design
- Design patterns
- Software development environments
- Software reuse
- People and process management
- Versioning and configuration management
- Quality assurance and testing
- Measurement and maintenance
- Emerging technologies

7 Course assessment

The course assessment components include: written assignments (10%), pop quizzes (10%), team project (20%), two midterm exams (40%), and a final exam (20%). Maximum possible score is 100. Course grade is awarded based on the following scheme:

Score	*Letter Grade*
>= 90	A
>= 80 & < 90	B
>= 70 & < 80	C
>= 60 & < 70	D
< 60	F

7.1 Written assignments (10%)

There will be several written assignments administered via muOnline/Blackboard system. Answers to these questions must be submitted via muOnline/Blackboard only. *No written assignments will be accepted late.* Written assignments will account for 10% of the course grade.

7.2 Pop quizzes (10%)

There will be several pop quizzes (about 10) on the topics discussed in the class and reading assignments. All the quizzes will be administered using muOnline/Blackboard and start precisely at 9.30 AM and end sharply at 9.40 AM. Pop quizzes will account for 10% of the course grade.

7.3 Team project (20%)

This is a continuation of your CS 305 team project. You will complete the design, code the application, and test it. This project accounts for 20% of the course grade.

7.4 Two midterm exams (40%)

There will be two midterm exams, and each weighs 20% of the course grade. The first midterm exam will be held on 5 February 2009 (Thursday), and the second on 12 March 2009 (Thursday).

7.5 Final exam (20%)

The final exam will be a comprehensive one — includes topics those that we have studied during the entire semester. It will be held in GH 206A on 5 May 2009 (Tuesday), 8.00 AM - 10.00 AM.

8 muOnline/Blackboard

It is important to visit muOnline/Blackboard regularly for up-to-date information about the course. It hosts all the course materials including assignments, handouts, lecture notes, and reading materials. Also, you will use the Blackboard for submitting your team project.

9 Policy for students with disabilities

Marshall University is committed to equal opportunity in education for all students, including those with physical, learning and psychological disabilities. University policy states that it is the responsibility of students with disabilities to contact the Office of Disabled Student Services (DSS) in Prichard Hall 117, phone 304 696-2271, to provide documentation of their disability. Following this, the DSS Coordinator will send a letter to each of the student's instructors outlining the academic accommodation he/she will need to ensure equality in classroom experiences, outside assignment, testing and grading. The instructor and student will meet to discuss how the accommodation(s) requested will be provided. For more information, please visit http://www.marshall.edu/disabled or contact Disabled Student Services Office at Prichard Hall 11, phone 304-696-2271.