ENPM 612 System & Software Requirements – Spring 2011

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Day/Time Tuesday 7:00-9:40pm

Location EGR 2107 (DETS)

Resources:

Please post any questions related to course content or assignments to the Discussion Board in the Blackboard system. Please email private concerns to the course instructors.

Text:

Robertson, S. and Robertson, J., Mastering the Requirement Process, 2nd Edition, Addison-Wesley Professional, 2006. http://amzn.com/0321419499

Course Description:

This course focuses on the theoretical and practical aspects of the requirements engineering process. Students will be introduced to the fundamental concepts and issues in requirements development. This includes various requirements types, risks and impact in the requirements process, requirement evolution, and techniques for eliciting, analyzing, evaluating, managing, and writing requirements in different development contexts. Individual classes in this course will be a mixture of traditional lectures accompanied by hands-on workshops that emphasize the interactive nature of requirement development process. ***To facilitate stronger interactions, in-class attendance or remote connection during class time is highly recommended.***

Course Objectives:

This course should enable you to:

1. Recognize and describe different types of requirements (functional, non-functional and constraints);
2. Elicit and analyze requirements from stakeholders;
3. Specify requirements effectively in a requirements document;
4. Assure the quality of requirements through verification and validation processes;
5. Maintain and manage requirements, including dealing with requirements change and traceability;
6. Assess the requirements development process.

Projects:

In this course, you will work individually to elicit, specify, analyze and validate the requirements for a software project. The project will consist of five individually-graded homework assignments focusing on different stages in the requirements engineering process. No programming will be required. The materials you produce in these assignments will be aggregated into a project portfolio.

Evaluation:

Course grades will be distributed as follows (subject to change):

- Midterm and final exam: (15% * 2) – 30%
- Projects: (10% * 5 assignments) – 50%
- Class Presentation: 5%
- Course participation: 15%

The course participation grade will be obtained from turning in specific deliverables from the in-class exercises and/or participating in the discussion board. Students who miss class or attend class at a remote location can turn in their deliverables within the two weeks of that class time to receive their course participation grade. **No late submissions will be accepted**.

Assignments must be submitted to Blackboard by 11:59pm on the due date. Unless you have prior permission from the instructors, late submissions will incur a penalty of 10% of the assignment grade per day.

Grades will be calculated as follows (Grade distribution is subject to change):

Grade	Obtained percentage
A+	>=97%
A	>=94% and <97%
A-	>=90% and <94%
B+	>=87% and <90%
B	>=84% and <87%
B-	>=80% and <84%
C+	>=77% and <80%
C	>=74% and <77%
C-	>=70% and <74%
D+	>=67% and <70%
D	>=64% and <67%
D-	>=60% and <64%
F	<60%

Collaboration Policy

You will have the opportunity to work on your assignments in many of the lecture periods. During this in-classroom exercise, open collaboration between students is encouraged. Lecture and textbook materials may also be freely discussed. However, assignments and exams must be completed individually. Plagiarism or copying of deliverables between students will be treated as a violation of the Code of Academic Integrity.

Code of Academic Integrity

"The University of Maryland, College Park has a nationally recognized Code of Academic Integrity, administered by the Student Honor Council. This Code sets standards for academic integrity at Maryland for all undergraduate and graduate students. As a student you are responsible for upholding these standards for this course. It is very important for you to be aware of the consequences of cheating, fabrication, facilitation, and plagiarism. For more information on the Code of Academic Integrity of the Student Honor Council, please visit www.studenthonorcouncil.umd.edu/whatis.html."