KING FAHD UNIVERSITY OF PETROLEUM & MINERALS
DEPARTMENT OF MATHEMATICS & STATISTICS

STAT301: Introduction to Probability Theory
Fall 2011 (Term 111)

Instructor: Walid S. Al-Sabah
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Office Hours: Monday 10:00 – 10:50 am
                    Tuesday 10:00 am – 12:00 noon

Course Objectives: Introduce the basic concepts of probability to mathematics, statistics, actuarial science, science and engineering. Present the mathematics of probability theory and its diverse applications.

Textbook: A First Course in Probability by Sheldon Ross, 5th edition, Pearson Education.

Important Notes:
- It is the student's responsibility to observe the academic calendar for important dates.
- Only University issued excuses will be accepted and only within a week of return to class.
- Excessive Absences will earn you a DN in accordance with University rules.
- Check Blackboard regularly for announcements

Assessment:

Activity	Weight
Homework	10%
Quizzes[1]	5%
First Major Exam, chapters 1,2 and 3	25%
Second Major Exam, chapters 4,5, and 6	25%
Final Exam (Comprehensive) *Monday January 9, 2012, 7:30 am*	35%

Homework:
Will be assigned later, and is due <u>in class</u> on the first Saturday after we finish a chapter.

Syllabus

Chapter	Number of Weeks
1. Combinatorial Analysis	1
2. Axioms of Probability	2
3. Conditional Probability and Independence	2
4. Random Variables	2
5. Continuous Random Variables	2
6. Jointly Distributed Random Variables	2
7. Properties of Expectation	2
8. Limit Theorems	2

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[1] Expect a quiz on the first Monday after you hand in the homework.