

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

**STAT301: Introduction to Probability Theory**  
**Spring 2014 (Term 132)**



**Instructor:** Walid S. Al-Sabah  
**Office:** 5-330 **Phone:** 4197 **Email:** walid@kfupm.edu.sa

**Class Meeting:** UTR 10:00 – 10:50 am 59-2021  
 W 6:00 – 7:30 pm 6-100

**Office Hours:** Sunday & Tuesday 11:00 – 12:00 noon  
 Wednesday 10:00 – 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, 8<sup>th</sup> 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
<i>Homework</i>	15%
<i>First Major Exam, chapters 1,2 and 3</i>	25%
<i>Second Major Exam, chapters 4,5, and 6</i>	25%
<i>Final Exam (Comprehensive)</i>	35%

**Homework:**

Will be assigned later.

**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