

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

STAT302: Statistical Inference
Spring 2012 (Term 112)



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

Class Meeting Times: SMW 11:00 – 11:50
Recitation/Problem Session: Tuesday 3:00 – 5:00 pm

Course Objectives: Present a solid undergraduate foundation in statistical theory, its relevance and importance in solving practical problems in the real world.

Textbook: Mathematical Statistics with Application, by Wackerly, Mendenhall and Scheaffer, 7th edition

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>	10%
<i>Exam 1 (2.12, 6.7, 7.1, 7.2)</i>	10%
<i>Exam 2 (Chapters 8 and 9)</i>	20%
<i>Exam 3 (Chapters 10, 14¹, 16)</i>	30%
<i>Final Exam (Comprehensive)</i>	30%

Saturday May 26, 7:00 pm

Homework:

Will be assigned later, and is due in class on the first Saturday after we finish a chapter.

Syllabus

Section	Title
2.12	Random Sampling
6.7	Order Statistics
7.1	Introduction to Sampling Distributions
7.2	Sampling Distributions Related to the Normal Distribution
8.1 – 8.10	Estimation
9.1 – 9.9	Properties of Point Estimators and Methods of Estimation
10.1 – 10.12	Hypothesis Testing
16.1 – 16.5	Introduction to Bayesian Methods for Inference
14.1 – 14.7 ²	Analysis of Categorical Data

¹ If the chapter is covered

² If time permits