

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

STAT302: Statistical Inference
Fall 2016 (161)



Instructor: Walid S. Al-Sabah
Office: 5-330 **Phone:** 4197 **Email:** walid@kfupm.edu.sa
Office Hours: Sunday, Tuesday, and Thursday 11:00 am – 12:00 noon
Monday 1:00 – 2:00 pm

Check Blackboard regularly for announcements

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, 14 and 16)</i>	30%
<i>Final Exam (Comprehensive)</i>	<i>Saturday January 14, 2017 (8:00 am)</i> 30%

Homework:

Will be assigned later, and is due in class on the first Sunday 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	Analysis of Categorical Data