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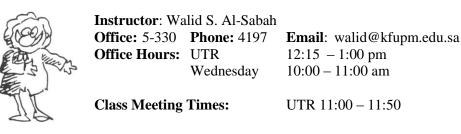**DEPARTMENT OF MATHEMATICS & STATISTICS**

STAT302: Statistical Inference
Fall 2014 (Term 141)

Instructor: Walid S. Al-Sabah
Office: 5-330   **Phone:** 4197   **Email**: walid@kfupm.edu.sa
Office Hours: UTR   12:15 – 1:00 pm
                   Wednesday   10:00 – 11:00 am

Class Meeting Times: UTR 11:00 – 11:50

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
Homework	10%
Exam 1 (2.12, 6.7, 7.1, 7.2)	10%
Exam 2 (Chapters 8 and 9)	20%
Exam 3 (Chapters 10, 14[1], 16)	30%
Final Exam (Comprehensive) *7:00 pm Tuesday December 30, 2014*	30%

Homework:
Will be assigned later, and is due <u>in class</u> 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[2]	Analysis of Categorical Data

---

[1] If the chapter is covered

[2] If time permits