

BSTAT 5325-071: Advanced Statistical Methods
Syllabus Summer 2014
ROOM 349 BUSINESS BUILDING

Instructor: Dr. Esimai

Office: 611 Business Building

Telephone & Voice Mail: 817 - 272 –3508

Office Hours: MW 12:30 – 1:00 p.m. or by appointment.

Mailbox: Box 19437 U.T.A

E-mail: Through the Blackboard ONLY

Webpage: <http://www.uta.edu/ra/real/faculty/gosimai>

Course Prerequisites:

BSTAT 3321 plus knowledge of use of any statistics software (e.g. Excel)

Textbook: Aplia 1-Semester Printed Access Card for Keller's Statistics for Management and Economics 9th Edition (includes EBOOK)

ISBN 9781111958459

Course Description:

(3 hours credit) Application of Statistical techniques to business and economic problems. Topics include simple linear regression and correlation, multiple regression, model building, analysis of variance, time series analysis and chi-square test of significance.

Grading Policy:

| | |
|------------|------------|
| Homework | 40 points |
| Project | 20 points |
| Quizzes | 40 points |
| Tests | 200 points |
| Final Exam | 100 points |
| Total | 400 points |

GRADES: Divide your total points by 4.0 and assign a grade as follows:

A= 90-100; B= 80-89.9; C= 70-79.9; D= 60-69.9; F= below 60

Attendance: You are responsible for all material covered in class even on days that you are absent. So please plan to be in class and make time to do any assigned work.

Quizzes, Tests and Make-ups:

Quizzes, and Tests will be administered using the Blackboard. All work is multiple choice or T/F.

One study sheet (8 1/2 by 11 inches) will be allowed for each exam. No makeup quizzes or tests will be given. If you miss a test/quiz due to illness, the final exam score will be used to replace it. Any requests for this missed-grade replacement must be accompanied by written documentation, e.g. doctor's excuse. The final can serve as a make-up for only one exam.

If you miss a test/quiz without requesting for a grade replacement, a zero will be given for that test/quiz.

Important date:

Final Exam: Friday, August 15, 2014 from 9:00am – 11:30am

SUGGESTED NOTES

Additional materials may be found on the web site:

<http://web.uta.edu/insyopma/esimai/bus63322.htm> Please print **and bring** them to the class.

BSTAT 5325-071 ADVANCED STATISTICAL METHODS SUMMER, 2014
TENTATIVE LECTURE SCHEDULE

| <u>DATE</u> | <u>TOPIC</u> | <u>CHAPTERS</u> |
|-----------------------|---|-------------------------------|
| July 28 | Introduction; Analysis of Variance | Ch. 14 |
| July 29 | Analysis of Variance | Ch. 14 |
| July 30 | Chi-squared test | Ch. 15 |
| July 31 | Chi-squared test | Ch. 15 |
| Aug. 1 | Simple linear regression and correlation | Ch. 16 |
| Aug. 4 | QUIZ ; Simple linear regression & corre. | Ch. 16 |
| <u>Aug. 5</u> | <u>Test 1 on Chs. 14 – 16; Multiple Regression</u> | <u>CH. 17</u> |
| Aug. 6 | Multiple Regression | CH. 17 |
| Aug. 7 | Model building | Ch. 18 |
| Aug. 8 | Model building; QUIZ | CH. 18 |
| Aug.11 | Time series analysis and forecasting | Ch. 20 |
| Aug. 12 | Time series analysis and forecasting | Ch. 20 |
| <u>Aug. 13</u> | <u>Test 2 on Chs. 17, 18 & 20 Project</u> | |
| <u>Aug. 14</u> | <u>Project</u> | |
| <u>Aug. 15</u> | <u>Friday Final Exam</u> | <u>9:00am -11:30am</u> |