



Course **OPRE 3360.501 – Managerial Methods in Decision Making Under Uncertainty**
Professor Sonia E. Leach, Ph.D.
Term Fall 2013
Meetings M/W: 5:30 – 6:45 PM; JSOM 2.117

Professor's Contact Information

Office Phone 972-883-5845
Office Location JSOM 3.409
Email Address sonia.leach@utdallas.edu
Office Hours Mon/Wed: 2-4PM
Other Information Please ensure e-mail messages include "OPRE 3360.502" in the subject line.

General Course Information

Pre-requisites BA 3351/MIS 3300 & MATH 1326 or equivalents.
Other Restrictions OPRE 3360 and STAT 3360 cannot both be used to fulfill degree requirements.
Course Description Introduces the concepts of probability and statistics to managerial decision making. Concepts will be developed in lecture and exercises using software packages. Topics include: summarizing and presenting data, probability theory, sampling, estimation, confidence intervals, hypothesis testing, regression, and ANOVA. Emphasis will be given to modeling and solving business problems in Finance, Marketing, Accounting, and Operations Management.
Required Text ***Modern Business Statistics with Microsoft® Office Excel® (4th Edition) custom edition for University of Texas at Dallas***, by Anderson, Sweeney and Williams, ISBN: 978-1-133-35747-6

Course Policies

Grading Criteria Course grades will be determined based upon your performance relative to the class as a whole.
Exams Four (4) exams will be given in this course, each contributing 20% toward your final course grade (80% total). Exams will be given during class. Make-up exams may be offered under certain circumstances. Please consult with the instructor.
Assignments There will be 7 assignments offered in this course. The assignment with the lowest grade will be omitted and the remaining assignment grades will be averaged and contribute 20% toward your final course grade. Assignments are to be turned in at the beginning of class on the due date given. Assignments will **NOT** be accepted by e-mail. Late assignments will **NOT** be accepted. Make-up assignments will **NOT** be offered. An assignment grade resulting from academic dishonesty will not be eligible to be dropped. See "Academic Dishonesty" below.
Extra Credit Extra credit will **NOT** be offered.
Class Attendance You are expected to attend every class and actively participate in the discussion and activities. Though attendance is not mandatory, you will be responsible for all material discussed and all course schedule changes announced during class.
Classroom Citizenship Each class session will begin on time. If you arrive after class has begun, please enter and take your seat as quietly as possible.
All phones must be silenced and stowed off of your desks at all times.
Use of your laptop computer or tablet will only be permitted when the class is addressing Microsoft® Excel® applications. Should you require the use of a laptop or tablet for reasons of accessibility, please see the section on "Accessibility Accommodations" below.

TENTATIVE Course Schedule

The following is a **tentative schedule** which will be followed as closely as possible. However, should changes become necessary, they will be announced in class. It is your responsibility to keep track of announcements regarding changes to this schedule.

WEEK #	DATE	LECTURE TOPICS/ASSIGNMENTS/EXAMS
Week 1	Mon, Aug 26 Wed, Aug 28	Course Introduction and Syllabus Review Chapter 1: Data and Statistics
Week 2	Mon, Sep 2 Wed, Sep 4	Labor Day – NO CLASSES Chapter 2: Descriptive Statistics: Tabular and Graphical Presentations
Week 3	Mon, Sep 9 Wed, Sep 11	Chapter 3: Descriptive Statistics: Numerical Measures ASSIGNMENT #1 DUE beginning of class on Wed
Week 4	Mon, Sep 16 Wed, Sep 18	Chapter 4: Introduction to Probability ASSIGNMENT #2 DUE beginning of class on Wed
Week 5	Mon, Sep 23 Wed, Sep 25	REVIEW: Chapters 1-3 EXAM #1: Chapters 1-3 (Formula Sheet allowed – see NOTE)
Week 6	Mon, Sep 30 Wed, Oct 2	Chapter 5: Discrete Probability Distributions
Week 7	Mon, Oct 7 Wed, Oct 9	Chapter 6: Continuous Probability Distributions ASSIGNMENT #3 DUE beginning of class on Wed
Week 8	Mon, Oct 14 Wed, Oct 16	Chapter 7: Sampling and Sampling Distributions ASSIGNMENT #4 DUE beginning of class on Wed
Week 9	Mon, Oct 21 Wed, Oct 23	REVIEW: Chapters 4-6 EXAM #2: Chapters 4-6 (Formula Sheet allowed – see NOTE)
Week 10	Mon, Oct 28 Wed, Oct 30	Chapter 8 – Interval Estimation
Week 11	Mon, Nov 4 Wed, Nov 6	Chapter 9: Hypothesis Tests ASSIGNMENT #5 DUE beginning of class on Wed
Week 12	Mon, Nov 11 Wed, Nov 13	Chapter 13: Experimental Design and Analysis of Variance ASSIGNMENT #6 DUE beginning of class on Wed
Week 13	Mon, Nov 18 Wed, Nov 20	REVIEW: Chapters 7-9 EXAM #3: Chapters 7-9 (Formula Sheet allowed – see NOTE)
Week 14	Mon, Nov 25 Wed, Nov 27	Fall break – NO CLASSES
Week 15	Mon, Dec 2 Wed, Dec 4	Chapter 14: Simple Linear Regression
Week 16	Mon, Dec 9 Wed, Dec 11	REVIEW: Chapters 13-14 ASSIGNMENT #7 DUE beginning of class on MON EXAM #4: Chapters 13-14 (Formula Sheet allowed – see NOTE)

NOTE: A **hand-written, single-sided** formula sheet **not larger than 8.5"x11"** (letter size) will be allowed for use during each exam. The formula sheet must have your name written on it and be turned in with your exam.

Accessibility Accommodations

It is the policy and practice of The University of Texas at Dallas to make reasonable accommodations for students with properly documented disabilities. However, written notification from the Office of Student AccessAbility (OSA) is required. If you are eligible to receive an accommodation and would like to request it for this course, please discuss it with me and allow one week advance notice. Students who have questions about receiving accommodations, or those who have, or think they may have, a disability (mobility, sensory, health, psychological, learning, etc.) are invited to contact the Office of Student AccessAbility for a confidential discussion. OSA is located in the Student Services Building, suite 3.200. They can be reached by phone at (972) 883-2098, or by email at studentaccess@utdallas.edu.

Academic Integrity

The faculty and administration of the School of Management expect from our students a high level of responsibility and academic honesty. Because the value of an academic degree depends upon the absolute integrity of the work done by the student for that degree, it is imperative that a student demonstrate a high standard of individual honor in his or her scholastic work. We want to establish a reputation for the honorable behavior of our graduates, which extends throughout their careers. Both your individual reputation and the school's reputation matter to your success.

The Judicial Affairs website lists examples of academic dishonesty. Dishonesty includes, but is not limited to cheating, plagiarism, collusion, facilitating academic dishonesty, fabrication, failure to contribute to a collaborative project and sabotage. Some of the ways students may engage in academic dishonesty are:

- Coughing and/or using visual or auditory signals in a test;
- Concealing notes on hands, caps, shoes, in pockets or the back of beverage bottle labels;
- Writing in blue books prior to an examination;
- Writing information on blackboards, desks, or keeping notes on the floor;
- Obtaining copies of an exam in advance;
- Passing information from an earlier class to a later class;
- Leaving information in the bathroom;
- Exchanging exams so that neighbors have identical test forms;
- Having a substitute take a test and providing falsified identification for the substitute;
- Fabricating data for lab assignments;
- Changing a graded paper and requesting that it be regraded;
- Failing to turn in a test or assignment and later suggesting the faculty member lost the item;
- Stealing another student's graded test and affixing one's own name on it;
- Recording two answers, one on the test form, one on the answer sheet;
- Marking an answer sheet to enable another to see the answer;
- Encircling two adjacent answers and claiming to have had the correct answer;
- Stealing an exam for someone in another section or for placement in a test file;
- Using an electronic device to store test information, or to send or receive answers for a test;
- Destroying or removing library materials to gain an academic advantage;
- Consulting assignment solutions posted on websites of previous course offerings;
- Transferring a computer file from one person's account to another;
- Transmitting posted answers for an exam to a student in a testing area via electronic device;
- Downloading text from the Internet or other sources without proper attribution;
- Citing to false references or findings in research or other academic exercises;
- Unauthorized collaborating with another person in preparing academic exercises.
- Submitting a substantial portion of the same academic work more than once without written authorization from the instructor.

<http://www.utdallas.edu/judicialaffairs/UTDJudicialAffairs-Basicexamples.html>

Plagiarism

Plagiarism on written assignments, especially from the web, from portions of papers for other classes, and from any other source is unacceptable. On written assignments, this course will use the resources of turnitin.com, which searches the web for plagiarized content and is over 90% effective.

Conduct During Course Exams

During tests and quizzes, students in this section are not allowed to have with them any food, drinks, scratch paper, course materials, textbooks, notes, invisible ink pens, or electronic devices, including iPads, iPhones, iPods, MP3 players, earphones, radios, smart phones, cameras, calculators, multi-function timepieces, or computers. When possible, students should sit in alternating seats, face forward at all times, and remove any clothing which might conceal eye movements, reflect images of another's work, or hide course material for copying. Exam proctors will monitor any communication or signaling between students by talking, whispering, or making sounds, or by using your hands, feet, other body movements, the test paper itself or your writing implement.

Academic Dishonesty

Students in this course suspected of academic dishonesty are subject to disciplinary proceedings, and if found responsible, the following minimum sanctions will be applied:

- **Homework – Zero for the Assignment**
- **Case Write-ups – Zero for the Assignment**
- **Quizzes – Zero for the Quiz**
- **Presentations – Zero for the Assignment**
- **Group Work – Zero for the Assignment for all group members**
- **Exams – Zero for the Exam and a one letter grade reduction of the final course grade**

These sanctions will be administered only after a student has been found officially responsible for academic dishonesty, either through waiving their right for a disciplinary hearing, or being declared responsible after a hearing administered by Judicial Affairs and the Dean of Student's Office.

In the event that the student receives a failing grade for the course for academic dishonesty, the student is not allowed to withdraw as a way of preventing the grade from being entered on their record. Where a student receives an F in a course and chooses to take the course over to improve their grade, the original grade of F remains on their transcript, but does not count towards calculation of their GPA.

The School of Management also reserves the right to review a student's disciplinary record, on file with the Dean of Students, as one of the criteria for determining a student's eligibility for a scholarship.

Judicial Affairs Procedures

Under authority delegated by the Dean of Students, a faculty member who has reason to suspect that a student has engaged in academic dishonesty may conduct a conference with the student in compliance with the following procedures:

- (i) the student will be informed that he/she is believed to have committed an act or acts of academic dishonesty in violation of University rules;
- (ii) the student will be presented with any information in the knowledge or possession of the instructor which tends to support the allegation(s) of academic dishonesty;
- (iii) the student will be given an opportunity to present information on his/her behalf;
- (iv) after meeting with the student, the faculty member may choose not to refer the allegation if he/she determines that the allegations are not supported by the evidence; or
- (v) after meeting with the student, the faculty member may refer the allegations to the dean of students along with a referral form and all supporting documentation of the alleged violation. Under separate cover, the faculty member should forward the appropriate grade to be assessed if a student is found to be responsible for academic dishonesty;
- (vi) the faculty member may consult with the dean of students in determining the recommended grade;
- (vii) the faculty member must not impose any independent sanctions upon the student in lieu of a referral to Judicial Affairs;
- (viii) the faculty member may not impose a sanction of suspension or expulsion, but may make this recommendation in the referral documentation

If the faculty member chooses not to meet with the student and instead forwards the appropriate documentation directly to the dean of students, they should attempt to inform the student of the

allegation and notify the student that the information has been forwarded to the Office of Dean of Students for investigation.

The student, pending a hearing, remains responsible for all academic exercises and syllabus requirements. The student may remain in class if the student's presence in the class does not interfere with the professor's ability to teach the class or the ability of other class members to learn. (See Section 49.07, page V-49-4 for information regarding the removal of a student from class).

Upon receipt of the referral form, class syllabus, and the supporting material/documentation from the faculty member, the dean shall proceed under the guidelines in the Handbook of Operating Procedures, Chapter 49, Subchapter C. If the respondent disputes the facts upon which the allegations are based, a fair and impartial disciplinary committee comprised of UTD faculty and students, shall hold a hearing and determine the responsibility of the student. If they find the student in violation of the code of conduct, the dean will then affirm the minimum sanction as provided in the syllabus, and share this information with the student. The dean will review the student's prior disciplinary record and assess additional sanctions where appropriate to the circumstances. The dean will inform the student and the faculty member of their decision.

UT Dallas Syllabus Policies and Procedures

The information contained in the following link constitutes the University's policies and procedures segment of the course syllabus. Please go to <http://go.utdallas.edu/syllabus-policies> for these policies.

The descriptions and timelines contained in this syllabus are subject to change at the discretion of the Professor.