

**UNIVERSITY OF TEXAS AT DALLAS**

**OPRE3360.501**

**MANAGERIAL METHODS IN DECISION MAKING UNDER UNCERTAINTY**

**SPRING 2017**

**Professor**                    **Dr. David Parks**

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**Office Hours**                **By Appointment**

**Email is require for ALL communications during the semester**

**Classroom**                    **JSOM 2.717**

**GENERAL COURSE INFORMATION**

**Pre-requisites, Co-requisites, and Other Restrictions**

Prerequisite: MATH 1326 Applied Calculus II or MATH 2414 Integral Calculus or MATH 2419 Calculus II. The topics discussed in this course are inherently mathematical. Although the level of math in this course is not advanced, students are encouraged to explore supplementary resources early in the semester.

**Course Description**

Introduces the concept of probability and statistics to managerial decision making. Concepts will be developed in lecture and exercises. Some problems will be solved 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.

**Learning Objectives and Outcomes**

As any statistics course, this class requires much work in and out of the classroom. Active and informed participation is expected from every student. Class sessions will be a combination of lecture, discussion and in-class exercises. Because the readings are a major source of learning, students are expected to study this material as it is assigned. Though it shall vary from week to week, plan to spend an estimated 6 to 9 hours per week on this class in addition to the classroom time. At the end of the course, you should

- Be acquainted with the concept of sample and population
- Be able to calculate and interpret statistics in context
- Be able to use statistics to describe samples and test hypothesis in making inferences about populations

## **Required Texts and Materials**

Anderson, D., Sweeney, D., and Williams, T. 2014 Modern Business Statistics with Microsoft Office Excel, 5<sup>th</sup> ed. With Cengage Aplia online learning resource.

Choose one of the following two options:

Option 1: Aplia and E Book ISBN 9781305255128

Option 2: Aplia, E Book and 3-ring loose leaf text ISBN 9781305029125

Option 1 Purchased at UTD Bookstore

Option 2 Purchased on line. Site OPRE 3360:

<http://login.cengagebrain.com/course/V74H-L443-HAWP>

**Course Key:** V74H-L443-HAWP

A calculator is required for the course. The calculator can be of your choice provided it has the following minimum capabilities: basic 4 functions, square root, exponent and display 4 or more decimal places. You need to bring your own calculator to each exam and be expected to know how to use it. Use of mobile phones or computers ARE NOT PERMITTED for the exams.

## **COURSE POLICIES**

### **Grading Criteria**

Four In-class exams 20% each; total 80%.

Aplia assignments 20%. Due dates and grades for assignment are displayed in Aplia.

97-100 points A+;      93-96.9 points A;      90-92.9 points A-;

87-89.9 points B+;      83-86.9 points B;      80-82.9 points B-;

77-79.9 points C+;      73-76.9 points C;      80-72.9 points C-;

67-69.9 points D+;      63-66.9 points D;      60-62.9 points D-;

Below 60 points F.

### **Assignment and Due Dates**

LATE SUBMISSIONS ARE NOT ACCEPTED. All assignments must be submitted on or before the due dates. There are NO make-up assignments. Make-up exams may be offered under justified circumstances and are subject to instructor approval.

### **Class Attendance**

Attendance is expected. Tardiness and absences are contributing factors to poor grades.

## **Classroom Citizenship**

Class begins on time. Use of phones are NOT permitted while class is in session. Keep your phone on silent. No texting during class. Use of computers and tablets are permitted during class sessions to take notes, etc. Use of COMPUTERS, TABLETS, PHONES are NOT permitted during examinations.

### **OPRE 3360 FALL 2017**

#### **TENTATIVE CALENDAR and TOPICS**

<b><u>DATE</u></b>	<b><u>TOPIC</u></b>
January 10	Introduction and Chapter 1
January 17	Chapters 2-3
January 24	Chapters 3-4
January 31	Chapter 4; Exam 1
February 7	Chapters 5-6
February 14	Chapters 6-7
February 21	Chapter 8; Exam 2
March 7	Chapters 8-9
March 14	Spring Break No Class
March 21	Chapters 9-10
March 28	Chapter 13
April 4	Chapter 13; Exam 3
April 11	Chapters 13-14
April 18	Chapters 14-15
April 25	Chapter 15
May 2	Final Exam

**For exams...students may bring a formula sheet ONE SIDE that must be turned in with the exam. Students must sign their name to the formula sheet. Calculators are permitted and recommended. Students are NOT permitted to share calculators. This schedule of topics and exams is a guide for the**

**course. The instructor reserves the right to modify any of its contents or timing throughout the semester. Check announcements during the semester and stay up to date on E Learning.**

## **GENERAL INFORMATION**

### **Student Conduct and Discipline**

The University of Texas System and The University of Texas at Dallas have rules and regulations for the orderly and efficient conduct of their business. It is responsibility of each student and each student organization to be knowledgeable about the rules and regulations which govern student conduct and activities. General information on student conduct and discipline is contained in the UTD Publication, *A to Z Guide*, which is available to all registered students each academic year.

The University of Texas at Dallas administers student discipline within the procedures of recognized and established due process. Procedures are defined and described in the *Rules of Regulations, Board of Regents, The University of Texas System, Part I, Chapter VI, Section 3*, and in *Title V, Rules on Student Services and Activities of the University's Handbook of Operating Procedures*. Copies of these rules and regulations are available to students in the Office of the Dean of Students, where staff members are available to assist students in interpreting the rules and regulations (SU 1.602, 972-883-6391).

A student at the university neither loses the rights nor escapes the responsibilities of citizenship. He or she is expected to obey federal, state and local laws as well as the Regent's Rules, university regulations, and administrative rules. Students are subject to discipline for violating the standards of conduct whether such conduct takes place on or off campus or whether civil or criminal penalties are imposed for such conduct.

### **Academic Integrity**

The faculty expects from its 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 demonstrates a high standard of individual honor in his or her scholastic work.

Scholastic dishonesty includes, but is not limited to, statements, acts or omissions related to applications for enrollment or the award of a degree, and/or the submission as one's own work or material that is not one's own. As a general rule, scholastic dishonesty involves, but is not limited to, one of the following acts: cheating, plagiarism, collusion and/or falsifying academic records. Students suspected of academic dishonesty are subject to disciplinary proceedings.

Plagiarism, especially from the web, from portions of papers for other classes, and from any other source is unacceptable and will be dealt with under the university's policy on plagiarism. This course will use resources of turnitin.com which searches the web for possible plagiarism.

### **Email Use**

UTD recognizes the value and efficiency of communication between faculty/staff and students through Email. At the same time, Email raises some issues concerning security and the identity

of each individual. Correspondence must be sent using UTD Email addresses and only Email from UTD accounts is official.

### **Withdrawal from Class**

The administration of UTD has set deadlines for withdrawal. These dates are published. Administration policies must be followed. **It is the student's responsibility to handle withdrawal from any class.** Students must follow the correct process to ensure they do not receive a failing grade of "F" in a course the student chooses not to attend or complete a course in which they are enrolled.

### **Student Grievance Procedures**

Procedures for student grievances are found in *Title V, Rules on Student Services and Activities, Handbook of Operating Procedures.*

### **Incomplete Grades**

As per university policy, incomplete grades will be granted only for work unavoidably missed at the end of the semester and only if 70% of the course work has been completed. An incomplete grade must be resolved within eight (8) weeks from the first day of the subsequent semester. If the work to complete the course and to remove the incomplete grade is not submitted by the specified deadline, the incomplete grade is changed automatically to a grade of F.

### **Disability Services**

The goal of Student AccessAbility is to provide students with disabilities educational opportunities equal to those of their non-disabled peers. Student AccessAbility Services is located in room SSB 3.200. Contact methods include:

[studentaccess@utdallas.edu](mailto:studentaccess@utdallas.edu)

972-883-2098 (voice or TTY)

Essentially the law requires that colleges and universities make reasonable accommodations necessary to eliminate discrimination on the basis of disability. It is the student's responsibility to notify professors of the need for such an accommodation. AccessAbility Services provides students with letters that can be presented verifying the student's need for accommodation. Individuals requiring accommodation should contact the professor after class or outside class hours.

### **Religious Holy Days**

The University of Texas at Dallas will excuse a student from class or other required activities for the travel to and observance of a religious holy day for a religion whose places of worship are exempt from property tax under Section 11.20 Tax Code, Texas Code Annotated.

It is the student's responsibility to notify the professor of an absence in advance. The student will be permitted up to a maximum of one week to complete any assignments or exams missed during the absence. If the work or exam is not completed by the deadline, the student will receive a failing grade for this work or exam.

