



**Course** OPRE 6301: Section 503

**Professor** Dr. Carol Flannery

**Teaching Assistant** Qingning Cao

**Term** Fall 2007

Section 503 begins on Thurs, August 16, 2007

**Meetings** Sec 503 : Thursday, 7 to 9:45 pm, SOM 2.106

Dr. Flannery has taught math and statistics in colleges and universities for 31 years. She joined UT-Dallas in 1995.

**About your Professor** In addition to teaching, her expertise includes writing technical math training publications, developing tailor-made, on-site courses for business and industry, and the production and curriculum development of tutorial videos and online courses.

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### Professor's Contact Information

**Office Phone** Contact by WEBCT email.

I am only in my office an hour or so before class.

**Office Location** SOM 2.409

Students should send all email to me via WebCT only. You must be logged into WEBCT in order to do this. I can only verify you as my student by your sending email in this manner. Otherwise, if I cannot verify you, I will not answer your email due to confidentiality laws!

**Email Address** Sending email to [flannery@utdallas.edu](mailto:flannery@utdallas.edu) (outside of WEBCT) will go to another mailbox which is checked less often than WEBCT. And, I cannot verify you as a student if you send email to this address.

Email is not checked daily and is never checked on weekends or holidays.

**Office Hours** Thursdays 6 to 6:45 pm

Problem solving cannot be explained in an appropriate manner via email. Please visit your Professor and/or Teaching Assistant during office hours for any help regarding problem solving.

**Other Information**

Study buddies are required in class.

WEBCT Discussion Board is a good way to discuss problems. Students will be assigned to groups for group presentations.

### General Course Information

**Pre-requisites, Co-requisites, & other restrictions** Math 5304, or equivalent

**Course Description** Introduction to statistical and probabilistic methods and theory applicable to situations faced by managers. Topics include: data presentation and summarization, regression analysis, fundamental probability theory and random variables, introductory decision analysis, estimation, confidence intervals, hypothesis testing, and One Way ANOVA .  
(This class section requires utilization of Excel on assignments, and ThompsonNOW online homework and test features).  
ThompsonNow is required in this class section for doing the homework and any homework Chapter tests (other than the Midterm and Finishing Tests, unless otherwise specified).

**ThompsonNow Online Homework Tools** With ThompsonNow, the student can receive immediate feedback after submitting homework.  
Some Chapter homeworks will permit up to 3 takes on each problem. Some homework assignments will permit only ONE take. Please note this before doing the homework assignment.

Do not submit the same Chapter homework assignment more than once.  
Only your first, completed submission will be counted.

**STUDENT LEARNING OUTCOMES AND OBJECTIVES**

Be able to:

- 1) organize and summarize raw data
- 2) build and evaluate a regression model from raw data
- 3) apply the basic rules of Probability Theory
- 4) apply the concept of a random variable to solve business problems
- 5) apply the Normal, Poisson, and Binomial Distributions to solve business Problems.
- 6) simulate data from the Normal, Poisson, and Binomial Distributions
- 7) identify significant changes in averages and proportions
- 8) determine if two populations have the same mean or the same proportion
- 9) determine if several populations have the same mean
- 10) perform Hypothesis Testing and Estimation by Confidence Intervals

STATISTICS FOR MANAGEMENT AND ECONOMICS, 7<sup>th</sup> EDITION, by G. KELLER, DUXBURY PRESS, 2005.

**NOTICE! NOTICE! NOTICE! NOTICE! NOTICE!**

**Required Texts & Materials** This course section will be including Thompson NOW (previously the ilrn) online system. According to the book publisher, students can opt to buy the E-Book text version which will include your pass to participate in the online homework and test grading system.

According to the book publisher, after purchasing the E-Book version, students can download chapters, data files, and Data Analysis Plus (all of which are included on the CD which

**accompanies the hardcopy textbook). Check with the UTD Bookstore and decide whether you want to purchase the hardcopy text, CD, and pass to ThompsonNOW, or the E-Book/Pass method.**

This section of OPRE 6301 requires utilization of Excel software and the ThompsonNOW online tool features, but a laptop **in class** is not required. Microsoft EXCEL is available at a substantial discount to UTD Students at the UTDallas Bookstore.

There will be some class time allotted within the on-campus computer lab. Students must be pro-active in learning Excel procedures and ThompsonNOW tools. No other software will be utilized in this course.

**Online Text**

**Companion Site** <http://www.duxbury.com/Titles.htm>

**ASSIGNMENTS AND CALENDAR for Thursday Class Section**  
**Information is SUBJECT to change.**

**Always consult your class WEBCT for any changes and/or updates.**

**MIDTERM (20%)**

**OCTOBER 4, 2007**

In-class, paper and pencil, multiple-choice test consisting of Statistical concepts and definitions from Chapters 1 through 8. Closed book, closed notes. Time: 90 minutes : 7 to 8:30 pm  
There are no makeups.

**FINISHING TEST**  
**cumulative (20%)**

**NOVEMBER 15, 2007**

This will be the last class meeting of the semester. Students will be provided an online test, via WEBCT and/or ThompsonNOW (instructions and more info will be given two weeks before this date). Included in this test will be a problem scenario with a data file. Your task will be to complete all the necessary statistical procedures as required for your problem utilizing either EXCEL, ThompsonNOW tools, or a combination of both. In essence, this test will be for students to demonstrate mastery of any or all Learning Objectives for this course utilizing necessary software.  
Timed Test: 2 hours; 7 to 9 pm  
Students can utilize the Computer Lab (it has been reserved for this class section) or work from their home/office.  
If your completed test is not returned to me, via WEBCT email, and/ or completed on ThompsonNOW within the time limit, 9 pm on November 15, 2007, your test grade will be ZERO.  
There are no makeups.  
There will only be ONE take on the ThompsonNOW test.

**GROUP  
PRESENTATIONS  
ON HOW TO USE  
EXCEL (20%)**

**This will take place in  
the Computer Lab  
unless otherwise  
indicated in class.**

Students will be randomly assigned into groups.

Each group will receive a TOPICS LIST, randomly assigned.

The responsibility of the group will be:

- 1) To prepare a lecture on the topics listed for your group.
- 2) Utilize power point or other visual means to demonstrate how to use EXCEL on the topics listed.
- 3) Organize and distribute a class assignment.
- 4) Monitor the class assignment and help students understand the topics you have presented.
- 5) Have a closing question/answer section.

**PRESENTATION TIME: 40 MINUTES**

**HOW GROUPS WILL BE GRADED:**

1) Quality of Material presented and how it is presented; to include covering all required topics, and superior utilization of time allotted for the presentation.

( 0 to 5 points)

2) Quality of Examples utilized within presentation ( 0 to 5 pts)

3) Quality of Monitoring and Helping students working on the class exercise provided by the Group (0 to 5 pts)

4) Individual Group Member Score (0 to 5 pts):

**The group captain will submit to me, in hardcopy, the responsibilities and contributions made by each group member. If the responsibilities of any group member seem trivial to me and/or I receive feedback that any group member is sloughing on the job, and/or did not help or contribute to the presentation, I will utilize this information to determine the appropriate score for that group member. !**

There will be a list of homework assignments, online at ThompsonNOW, for each chapter. Some assignments will permit up to 3 takes per question, some assignments **will not**. **This includes Chapter Tests, which are included in your homework score. These particular tests will only be available at certain times at your ThompsonNOW site.**

Only the problems graded electronically will count toward your homework score. Problems that say “manually graded” will not be counted toward your homework score and will not be graded. Students should discuss these problems with their study buddies and/or group and will provide you with a good review for the Midterm and Finishing Test.

**HOMEWORK  
ONLINE  
(40%)**

## Course Policies

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| <b>Inclement Weather</b>                    | <b>If the university is <u>officially closed</u> due to bad weather, and this closure is on a scheduled test day, the test will be held at the next class meeting.</b>  |
| <b>Grading Criteria</b>                     | <p>92 – 100 A<br/>             85 - 91 B<br/>             75 - 84 C<br/>             74 and below F</p> <p><b>Students taking this course as an undergraduate will be subject to all policies as graduate students taking this course. Meaning, there are no + or – final course grades. Also, there is no D grade in graduate school.</b></p> <p><b>Points may be deducted from your final course average due to excessive absences from class. See CLASS ATTENDANCE within this syllabus.</b></p> |
| <b>Make-up Exams</b>                        | <p><b>There are no makeup exams. In very <u>rare</u> cases, a makeup <u>may</u> be administered. However, in such cases, a makeup exam will be a more detailed, rigorous test .</b></p> <p><b>In reference to religious holidays, please see the section on RELIGIOUS HOLIDAYS within this syllabus.</b></p>  |
| <b>FINAL EXAM</b>                           | <p><b>There is no “final exam” for this class section during exam week. There is a <u>Midterm Test</u> and a <u>Finishing Exam (cumulative)</u>.</b></p> <p><b>See the Academic Schedule within this syllabus for date and times of the Midterm Test and Finishing Exam.</b></p>  |
| <b>Extra Credit</b>                         | <b>There is no extra credit.</b>  |
| <b>Late Work</b>                            | <b>Late work is not accepted.</b>   |
| <b>Request for Letter of Recommendation</b> | <p><b>Requests will not be considered if received after October 31. If received before this date, your request must include a vita and short summary of what you want to do with your education and experience. The appropriate addresses and stamps should be included. I also will look at your scores for the course. Your request may be accepted or denied based upon the information I receive.</b></p>   |
| <b>Lectures</b>                             | <p>If a lecture is missed, please contact your study buddy for notes. My lecture notes and power point presentations are not online.</p>  |
| <b>Class Attendance</b>                     | <b>Class attendance is required. Roll may be taken at any time during the semester. Students missing four or more classes are subject to being docked on their final course grade average by 4 or more points (one point for each class missed).</b>  |
| <b>Breaks during Class</b>                  | Timed Breaks will be given during the class time. However, your professor will be on break, too. Please be courteous and recognize this fact, and return back to the classroom in a timely manner after the break time.   |
| <b>Cell Phones</b>                          | <b>Turned off, out of sight, and NOT TO BE USED WITHIN THE CLASSROOM AREA at any time; this includes during breaks.</b>   |

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| <p style="text-align: center;"><b>Student Conduct and Discipline</b></p> | <p>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 the 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, <i>A to Z Guide</i>, which is provided to all registered students each academic year.</p> <p>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 <i>Rules and Regulations, Board of Regents, The University of Texas System, Part 1, Chapter VI, Section 3</i>, and in Title V, Rules on Student Services and Activities of the university's <i>Handbook of Operating Procedures</i>. 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).</p> <p>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 Regents' 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 also imposed for such conduct.</p> |
| <p style="text-align: center;"><b>Academic Integrity</b></p>             | <p>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 demonstrate a high standard of individual honor in his or her scholastic work.</p> <p>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.</p> <p><b>As a general rule, scholastic dishonesty involves one of the following acts: cheating, plagiarism, collusion and/or falsifying academic records. Students suspected of academic dishonesty are subject to disciplinary proceedings.</b></p> <p>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 (see general catalog for details). This course will use the resources of turnitin.com, which searches the web for possible plagiarism and is over 90% effective.</p>   |
| <p style="text-align: center;"><b>Email Use</b></p>                      | <p>The University of Texas at Dallas recognizes the value and efficiency of communication between faculty/staff and students through electronic mail. At the same time, email raises some issues concerning security and the identity of each individual in an email exchange. The university encourages all official student email correspondence be sent only to a student's U.T. Dallas email address and that faculty and staff consider email from students official only if it originates from a UTD student account. This allows the university to maintain a high degree of confidence in the identity of all individual corresponding and the security of the transmitted information. UTD furnishes each student with a free email account that is to be used in all communication with university personnel. The Department of Information Resources at U.T. Dallas provides a method for students to have their U.T. Dallas mail forwarded to other accounts.</p>  |
| <p style="text-align: center;"><b>Withdrawal from Class</b></p>          | <p>The administration of this institution has set deadlines for withdrawal of any college-level courses. These dates and times are published in that semester's course catalog. Administration procedures must be followed. It is the student's</p>  |

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|  | <p>responsibility to handle withdrawal requirements from any class. <b>In other words, I cannot drop or withdraw any student. You must do the proper paperwork to ensure that you will not receive a final grade of "F" in a course if you choose not to attend the class once you are enrolled.</b></p>  |
| <p><b>Student Grievance Procedures</b></p> | <p>Procedures for student grievances are found in Title V, Rules on Student Services and Activities, of the university's <i>Handbook of Operating Procedures</i>.</p> <p>In attempting to resolve any student grievance regarding grades, evaluations, or other fulfillments of academic responsibility, it is the obligation of the student first to make a serious effort to resolve the matter with the instructor, supervisor, administrator, or committee with whom the grievance originates (hereafter called "the respondent"). Individual faculty members retain primary responsibility for assigning grades and evaluations. If the matter cannot be resolved at that level, the grievance must be submitted in writing to the respondent with a copy of the respondent's School Dean. If the matter is not resolved by the written response provided by the respondent, the student may submit a written appeal to the School Dean. If the grievance is not resolved by the School Dean's decision, the student may make a written appeal to the Dean of Graduate or Undergraduate Education, and the dean will appoint and convene an Academic Appeals Panel. The decision of the Academic Appeals Panel is final. The results of the academic appeals process will be distributed to all involved parties.</p> <p>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.</p>  |
| <p><b>Incomplete Grades</b></p>            | <p><b>As per university policy, incomplete grades will be granted only for work unavoidably missed at the semester's end and only if 70% of the course work has been completed.</b> An incomplete grade must be resolved within eight (8) weeks from the first day of the subsequent long semester. If the required 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 <b>F</b>.</p>  |
| <p><b>Disability Services</b></p>          | <p>The goal of Disability Services is to provide students with disabilities educational opportunities equal to those of their non-disabled peers. Disability Services is located in room 1.610 in the Student Union. Office hours are Monday and Thursday, 8:30 a.m. to 6:30 p.m.; Tuesday and Wednesday, 8:30 a.m. to 7:30 p.m.; and Friday, 8:30 a.m. to 5:30 p.m.</p> <p style="text-align: center;">The contact information for the Office of Disability Services is:<br/> The University of Texas at Dallas, SU 22<br/> PO Box 830688<br/> Richardson, Texas 75083-0688<br/> (972) 883-2098 (voice or TTY)</p> <p>Essentially, the law requires that colleges and universities make those reasonable adjustments necessary to eliminate discrimination on the basis of disability. For example, it may be necessary to remove classroom prohibitions against tape recorders or animals (in the case of dog guides) for students who are blind. Occasionally an assignment requirement may be substituted (for example, a research paper versus an oral presentation for a student who is hearing impaired). Classes enrolled students with mobility impairments may have to be rescheduled in accessible facilities. The college or university may need to provide special services such as registration, note-taking, or mobility assistance.</p> <p><b>It is the student's responsibility to notify his or her professors of the need for such an accommodation. Disability Services provides students with letters to present to faculty members to verify that the student has a disability and needs accommodations. Individuals requiring special accommodation should contact the professor after class or during office hours.</b></p> |

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|                                   | <p><b>*****Letters and Forms for students utilizing Disability Services for special assistance must be presented to your professor <u>as soon as possible in the beginning of the semester.</u></b></p>   |
| <p><b>Religious Holy Days</b></p> | <p>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.</p> <p>The student is encouraged to notify the instructor or activity sponsor as soon as possible regarding the absence, preferably in advance of the assignment. The student, so excused, will be allowed to take the exam or complete the assignment within a reasonable time after the absence: a period equal to the length of the absence, up to a maximum of one week. A student who notifies the instructor and completes any missed exam or assignment may not be penalized for the absence. A student who fails to complete the exam or assignment within the prescribed period may receive a failing grade for that exam or assignment.</p> <p>If a student or an instructor disagrees about the nature of the absence [i.e., for the purpose of observing a religious holy day] or if there is similar disagreement about whether the student has been given a reasonable time to complete any missed assignments or examinations, either the student or the instructor may request a ruling from the chief executive officer of the institution, or his or her designee. The chief executive officer or designee must take into account the legislative intent of TEC 51.911(b), and the student and instructor will abide by the decision of the chief executive officer or designee.</p> |
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***These descriptions and timelines are subject to change at the discretion of the Professor.***

**NOTICE:** It is the student's responsibility to read and understand this syllabus.

Any errors or omissions in this syllabus will be corrected with notice to students in class and/or by website announcement.

Any errors or omissions on the class website and/or WEBCT email will be corrected with notice to students in class and/or by website announcement.

**Check the class WEBCT often for any announcements.**