Class meets: MW 2:00 – 3:20 pm in SAGE 355

Instructor: Professor Michael Monticino
   Email: michael.monticino@unt.edu
   Office hours: EESAT 310S – M, W 3:30 – 4:30, Tuesday 8:30 – 10:30, or by appointment.

Course Description: Descriptive statistics, elements of probability, random variables, confidence intervals, hypothesis testing, regression, multivariate techniques.

Prerequisite: Math 1710 and Math 1720 (may be taken concurrently).


There are two options (below) for purchasing the text. The second option is cheaper; however, it only provides temporary online access to the textbook.


A guide for accessing WebAssign is at http://www.webassign.net/manual/WA_Student_Quick_Start.pdf (Class Key: unt 0615 3832).

Required technology: You will be expected to bring to class – including exams – either a laptop with a spreadsheet program (such as Microsoft Excel) or a calculator that can perform statistical functions (including multiple regression). I will demonstrate how to use statistical functions from Excel in class. You will be expected to be able to use these functions on assignments and exams (or learn the corresponding tools on a calculator). We may also use statistical software available through UNT based computers.
Grading

Your course grade will be based on homework, in-class quizzes, tests and a comprehensive final exam.

**Homework.** All homework assignments are completed by logging into [www.webassign.net](http://www.webassign.net). Each part of each exercise can be attempted up to 10 times. Your last submission will count as your final answer. You can save your work without using a submission attempt. Some exercises are randomized, so that each student will be presented slightly different questions with accordingly different answers.

Homework assignments will be due on Fridays at 11:59 pm. If requested no more than a week after the original due date (i.e., by the following Friday at 11:59 pm), it is possible to receive an automatic extension on homework through Enhanced WebAssign. Any work done after the automatic extension can be submitted for half credit as long as it completed within 24 hours of the request.

Your two lowest homework grades will be dropped before computing your course homework average. Your course homework average will count towards 10% of your course grade.

**Quizzes.** Approximately 6 – 8 in-class quizzes (or take-home projects) will be given (~every other week). The quizzes/projects will review and expand upon in-class material and help prepare you for demonstrating your knowledge of the material on tests.

One quiz grade will be dropped before your quiz average is computed for your course grade. Your quiz average will towards 20% of your course grade. No late assignments will be accepted.

**Tests.** Three in-class tests will be given. Exact test dates will be announced in class. Tentatively, the tests will be given:

- Test 1 – Week 5 of the semester
- Test 2 – Week 10 of the semester
- Test 3 – Week 14 of the semester.

Your lowest test grade will be dropped before calculating your final course average. Each test counted will be worth 20% of your final grade.

**Final Exam.** The final exam is comprehensive, covering material from the entire semester. The final exam counts 30% toward your final grade.

The final exam is scheduled for May 9, 2016, 1:30 pm – 3:30 pm.

**Important.** There are no “make-ups” on homework, quizzes or tests. Grades are dropped, as indicated, for each of these to account for illness, emergencies, etc.

**Course Grade**

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<thead>
<tr>
<th>Grade</th>
<th>Description</th>
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<tr>
<td>A</td>
<td>100% - 90% average of final exam, tests, quizzes and homework.</td>
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<tr>
<td>B</td>
<td>&gt;90% - 80% average of final exam, tests, quizzes and homework.</td>
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<tr>
<td>C</td>
<td>&gt;80% - 70% average of final exam, tests, quizzes and homework.</td>
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<tr>
<td>D</td>
<td>&gt;70% - 60% average of final exam, tests, quizzes and homework.</td>
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<tr>
<td>F</td>
<td>&gt;60% average of final exam, tests, quizzes and homework.</td>
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Quizzes, tests and the final exam demonstrate your mastery of course material. Cheating will be met by an appropriate penalty up to and include an F for the course (see http://vpaa.unt.edu/academic-integrity.htm for the UNT academic dishonesty policy).

**Attendance.** Daily attendance will not be recorded. However, class attendance is strongly linked to success in the course. You are responsible for all material presented in class. Topics covered in class will be part of quizzes, texts and the final exam.

**Incompletes.** A grade of “I” is designed for students who are unable to complete the course and are currently passing. Guidelines for receiving and “I” are provided in the UNT Student Handbook.

**Expectations and Accommodations**

You are expected to behave professionally and maturely in all instructional settings. Behavior that interferes with an instructor’s ability to conduct a class or other student’s opportunity to learn will result in dismissal from the classroom. Disruptive students may be referred to the Center for Student Rights and Responsibilities.

The University of North Texas makes reasonable academic accommodation for students with disabilities. Students seeking accommodation must first register with the Office of Disability Accommodation (ODA) to verify their eligibility. If a disability is verified, the ODA will provide you with an accommodation letter to be delivered to faculty to begin a private discussion regarding your specific needs in a course. You may request accommodations at any time, however, ODA notices of accommodation should be provided as early as possible in the semester to avoid any delay in implementation. Note that students must obtain a new letter of accommodation for every semester and must meet with each faculty member prior to implementation in each class. For additional information see the Office of Disability Accommodation website at http://www.unt.edu/oda, or contact ODA by phone at 940.565.4323.

**Course Topics**

The following chapters and sections of the textbook will be covered. Some additional topics (indicated below) may be covered as time allows. The first test will (approximately) include material from Chapters 1 – 3, the second test will include (approximately) material from Chapters 4, 5 and 7, the third test will include material from Chapters 8, 12 and any additional topics covered by the time of the test. The final exam will cover all material discussed during the semester. Classroom presentations may include material not covered in the textbook. This material will be part of quizzes, texts and the final exam.

Chapter 1: Overview and Description Statistics
   1.1 Populations, Samples and Processes
   1.2 Pictorial and Tabular Methods in Descriptive Statistics
   1.3 Measures of Location
   1.4 Measures of Variability

Chapter 2: Probability
   2.1 Sample Spaces and Events
   2.2 Axioms, Interpretations, and Properties of Probability
   2.3 Counting Techniques
   2.4 Conditional Probability