ORSMS 3310
DATA ANALYSIS AND STATISTICS
FALL 2012

Section 001 – 9:00 am - 9:50 am – MWF – OCNR 259

INSTRUCTOR: Amir M. Hormozi, Ph.D. OFFICE HOURS: 10-11:30, 3:15-4:45 Monday
OFFICE: 325 OCNR 1-2, 5-7 Wednesday
OFFICE PHONE: 825-6016 (and by appointment)
e-mail: amir.hormozi@tamucc.edu

COURSE DESCRIPTION:

A study of descriptive statistics, probability distributions, the normal distribution, confidence intervals and hypothesis testing, regression analysis and chi-square.

COURSE PREREQUISITES:

Prerequisite: MATH 1314 and MISY 2305 or equivalents

REQUIRED TEXT:


MAJOR FIELD TEST:

The Major Field Test (MFT) is required for all students pursuing the Bachelor of Business Administration degree and will be administered in the MGMT 4388 course, “Administrative Policy and Strategy.” To prepare for this test, business majors are advised to retain their class notes, textbooks and other relevant materials from this class and the other business core courses. Students will enroll in BUSI 0088 “MFT Review” (concurrently with MGMT 4388) during their final semester; this online course should fine-tune their readiness for the MFT by encouraging them to complete the online MFT review materials and required quizzes available on the course Blackboard learning modules.

COURSE OBJECTIVES:

1. You will enhance your knowledge of quantitative concepts and skills.
2. You will develop an understanding of key statistical concepts used in business.
3. You will learn basic statistical methods of data analysis, founded in probability theory.
4. You will draw statistical inferences using the results obtained by the application of basic statistical methods.
5. You will apply basic statistical methods to data with the help of the statistical applications found in Microsoft Excel.
6. This course will assist you with your preparation for the Major Field Test to be administered in MGMT 4388.

EXPECTATIONS OF STUDENTS:

1. You are EXPECTED to have read the material BEFORE it is covered in class.
2. You are responsible for all material presented in lecture and assigned readings.
3. You are responsible for turning in all assignments on time.
4. You are responsible for staying informed of assignments, meeting locations, and any changes to the syllabus announced during class time.
5. You are responsible for doing everything necessary to learn statistics.
6. You are responsible for knowing and abiding by the rules and policies outlined in this syllabus.
RELATIONSHIP TO OTHER COURSE WORK:

Descriptive and inferential statistics are foundations of business analysis and communications. Specifically, the topics in the course supportive of studies in accounting, finance, management, marketing, and operations management

INSTRUCTIONAL METHODOLOGY:

Scheduled class time will be used for lectures and student activities. You are encouraged to ask questions and to participate in class discussions on statistical methodologies and their applications. In addition, you are encouraged to pay attention to commercials and news items in printed as well as audio-visual media to become aware of the wide use of statistics in our daily lives.

PERFORMANCE EVALUATION AND GRADING:

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<thead>
<tr>
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<th>Percentage</th>
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<tbody>
<tr>
<td>Lowest Exam</td>
<td>25%</td>
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<tr>
<td>Middle Exam</td>
<td>30%</td>
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<tr>
<td>Highest Exam</td>
<td>35%</td>
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<tr>
<td>Attendance and Participation</td>
<td>10%</td>
</tr>
<tr>
<td>Total</td>
<td>100%</td>
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</tbody>
</table>

All course material is fair game for exam questions--all assigned readings whether discussed in class or not and all material presented in lectures whether covered in assigned readings or not. No make-up exam will be given. Letter grades will be determined based on the total points earned, as follows:

A: An average of 90-100, or a total of 270-300.  B: An average of 80-89.9, or a total of 240-269.  C: An average of 70-79.9or a total of 210-239.  D: An average of 60-69.9, or a total of 180-209.  F: An average below 60, or total below 180.

SUGGESTED PRACTICE PROBLEMS:

It is the student’s responsibility to work the self-test problems in the chapter and check for their answers in the back of the book. Self-test problems are minimum requirements and students are encouraged to explore more problems in each chapter. This is how quantitative topics are learned (through practice). It is the student’s responsibility to ask questions regarding any issues encountered when working the suggested study questions.

TECHNOLOGY APPLICATIONS:

The student is expected to have a good working knowledge of popular microcomputer software such as word processing and spreadsheets. During the course of the semester, the student must draw upon these computer skills. Specifically, students are to use current technological aids to improve the quality of their presentations and problem-solving. Students are encouraged to communicate with the instructor using electronic media.

ORAL AND WRITTEN COMMUNICATION CONTENT:

Examination problems are evaluated for clarity

ETHICAL PERSPECTIVE:

Aspects of reporting statistical results and methodologies are discussed.

GLOBAL PERSPECTIVES:

Assigned reading materials contain a global perspective, as do some classroom examples.
DEMOGRAPHIC DIVERSITY PERSPECTIVES:

Assigned reading materials contain a global perspective, as do some classroom examples.

POLITICAL, SOCIAL, LEGAL, REGULATORY, AND ENVIRONMENTAL PERSPECTIVES:

Assigned reading materials contain these perspectives, as do some classroom examples.

ATTENDANCE POLICY:

Regular and punctual attendance for the full period of each class is expected. Unexcused absences WILL adversely affect your grade. Attendance of all classes is expected and attendance will be checked from time to time. Should you miss a class, you are responsible for all material covered, including announcements and handouts. Any suggestions you have, for example, on how to make the class a better learning environment, are always welcome.

COB CODE OF ETHICS:

This course, similar to all other courses offered by the College of Business (COB), requires all of its students to abide by the COB Student Code of Ethics (available online at www.cob.tamu.edu). Provisions and stipulations in the code are applicable to all students taking College of Business courses regardless of whether or not they are pursuing a degree awarded by the COB. Any and all violations of the COB Code of Ethics WILL result in an incident report being filed with the COB Dean and the VP of Student Affairs. In addition, a grade of zero (0) for the assignment will be recorded and/or a grade of zero (0) for the ENTIRE ORMS 3310 course will be recorded. NO EXCEPTIONS!

AMERICANS WITH DISABILITIES ACT COMPLIANCE:

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statue that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Disability Services Office at 361.825.5816 or visit the office in Driftwood 101.

If you are a returning veteran and are experiencing cognitive and/or physical access issues in the classroom or on campus, please contact the Disability Services office for assistance at (361) 825-5816.

GRADE APPEALS:

As stated in University Rule 13.02.99.C2, Student Grade Appeals, a student who believes that he or she has not been held to appropriate academic standards as outlined in the class syllabus, equitable evaluation procedures, or appropriate grading, may appeal the final grade given in the course. The burden of proof is upon the student to demonstrate the appropriateness of the appeal. A student with a complaint about a grade is encouraged to first discuss the matter with the instructor. For complete details, including the responsibilities of the parties involved in the process and the number of days allowed for completing the steps in the process, see University Rule 13.02.99.C2, Student Grade Appeals, and University Procedure 13.02.99.C2.01, Student Grade Appeal Procedures. These documents are accessible through the University Rules Web site at http://www.tamu.edu/provost/university_rules/index.html. For assistance and/or guidance in the grade appeal process, students may contact the Office of Student Affairs.

INSTRUCTOR STATEMENT:

It is my intention to devote the time, effort, and resources to properly instruct each student, and the class as a whole, in the course subject matter. I encourage you to devote the time and effort necessary to succeed in this course. The material in this course IS cumulative. Hence, you should strive to keep up with the material and not fall behind.

I encourage you to attend class and participate in all aspects of the learning process.

Best wishes for your success in the class.
GENERAL COMMENTS:

1. Doing the assignments is essential to succeeding in this course. You are encouraged to keep up with the suggested homework problems and check the answers provided in the back of the textbook.
2. You should not hesitate to ask questions in class. Usually someone else has the same question, so, by asking in class everyone can benefit from the question.
3. You should not hesitate to contact me outside of class if you need more assistance in learning the material.

TENTATIVE CLASS SCHEDULE:

<table>
<thead>
<tr>
<th>MWF Date Week:</th>
<th>Topic</th>
<th>Chapter</th>
<th>Section</th>
<th>Assignments</th>
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<tbody>
<tr>
<td>1 (Aug 22, 24)</td>
<td>Introduction to Statistics</td>
<td>Chapter 1</td>
<td>1.1-1.5</td>
<td>Read Chapters 1, 2, 3</td>
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<tr>
<td>2 (Aug 27, 29, 31)</td>
<td>Charts and Graphs</td>
<td>Chapter 2</td>
<td>2.1, 2.2 and pages 58-60</td>
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<tr>
<td>3 (Sept 3)</td>
<td>Labor Day</td>
<td>No Class</td>
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<td>3 (Sept 5, 7)</td>
<td>Descriptive Statistics</td>
<td>Chapter 3</td>
<td>3.1, 3.2</td>
<td>Read Chapter 4</td>
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<tr>
<td>4 (Sept 10, 12, 14)</td>
<td>Probability</td>
<td>Chapter 4</td>
<td>4.2, 4.3, 4.4</td>
<td>Read Chapter 5</td>
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<tr>
<td>5 (Sept 17, 19, 21)</td>
<td>***** EXAM I *****</td>
<td>Chapters 1, 2, 3 and 4</td>
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<td>6 (Sept 21, 24, 26, 28)</td>
<td>Discrete Distributions</td>
<td>Chapter 5</td>
<td>5.1, 5.2, 5.3, 5.4</td>
<td>Read Chapter 6</td>
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<tr>
<td>7 (Oct 1, 3, 5)</td>
<td>Continuous Distributions</td>
<td>Chapter 6</td>
<td>6.1, 6.2</td>
<td>Read Chapter 7</td>
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<td>8 (Oct 8, 10, 12)</td>
<td>Sampling and Sampling Distributions</td>
<td>Chapter 7</td>
<td>7.1, 7.2, 7.3, 7.4</td>
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<tr>
<td>9 (Oct 15, 17, 19)</td>
<td>Sampling and Sampling Distributions</td>
<td>Chapter 7</td>
<td>7.5, 7.6, 7.7</td>
<td>Read Chapter 8</td>
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<tr>
<td>10 (Oct 22, 24, 26)</td>
<td>***** EXAM II *****</td>
<td>Chapters 5, 6 and 7</td>
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<td>11 (Oct 29, 31, 2)</td>
<td>Estimation for Single Populations</td>
<td>Chapter 8</td>
<td>8.1, 8.2, 8.3</td>
<td>Read Chapter 9</td>
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<tr>
<td>12 (Nov 5, 7, 9)</td>
<td>Hypothesis Testing</td>
<td>Chapter 9</td>
<td>9.1-9.4 9.2</td>
<td>Read Chapter 12</td>
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<tr>
<td>13 (Nov 12, 14, 16)</td>
<td>Simple Linear Regression</td>
<td>Chapter 12</td>
<td>12.1-12.4</td>
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<td>14 (Nov 19, 21, 23)</td>
<td>To be announced</td>
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<tr>
<td>15 (Nov 26, 28, 30)</td>
<td>***** EXAM III *****</td>
<td>Chapters 8, 9, 12</td>
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<td>16 (Dec 3)</td>
<td>Pause and Reflect</td>
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STATEMENT OF UNDERSTANDING OF THE REQUIREMENTS OF ORMS 3310

I have read the above syllabus and agree to abide by the class policies and procedures set forth therein.

I understand that I must earn at least the minimum required number of points listed in the syllabus to achieve my desired letter grade.

I understand that I must inform the instructor ahead of time and provide written documentation if I have to miss a scheduled exam for university related business.

I also understand that if I miss a scheduled exam due to an unexcused absence, I will receive a grade of ZERO (0) on that exam.

I understand that the use of cell phone calculators on exams is NOT permitted.

I understand that exams are cumulative in nature (subsequent exams require conceptual understanding of previous subject matters).

I understand that I am solely responsible for my own work in this course (In other words, I will not turn-in someone else’s work as my own). Turning in someone else’s work as my own will result in a grade of ZERO (0) for the entire ORMS 3310 course.

I understand that academic dishonesty will not be tolerated in this course.

I understand that I am responsible for asking for any necessary clarification to the requirements listed in the course syllabus.

I understand ALL of the other written requirements in this syllabus for this course that have not been reiterated on this page.

I understand that I must sign/date this page and return this page to the instructor within seven (7) days of receipt of the syllabus.

Signed this the _________ day of ______________, 2012.

Print your name: _______________________________________

Signature:  ___________________________________