INTRO TO BUSINESS AND ECONOMIC STATISTICS
STAT1053-Section MV – CRN 11985– Spring 2010
[01/10/11 - 04/25/11]
Tuesdays & Thursdays, 4:10 – 5:25 PM
Mount Vernon Campus, Room: ACAD 100

Instructor: Thomas A. Vadakkeveetil, Ph.D.
Office Hours: Before and/or by appointment, MV Campus, ACAD 100
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TEXTBOOK & COURSE MATERIALS
Required Text: James T. McClave & Terry Sincich, Statistics, 2nd Custom ed. for GWU.
Software: SPSS (Available at most of the GWU computer labs)

COURSE DESCRIPTION
This is a general survey course in elementary statistics that will broadly cover descriptive
statistics, probability, sampling, and inference, hypothesis testing and simple linear
regression. The goal of the course is for students to obtain a good basic understanding of
statistics. The course covers Chapters 1 through 9 and 12, excluding “Optional” sections, in
the textbook. STAT 51, 53, 91, 104, 111, and 127 are related in their subject matter, and
credit for only one of the six may be applied toward a degree.

COURSE PREREQUISITE
None (except high school algebra).

LEARNING OUTCOMES
Students will learn to use a variety of fundamental statistical principles integrated with
business and economic applications. They will learn to analyze data using appropriate
statistical techniques and to interpret the findings for solving marketing management
problems. Students will also learn the statistical/quantitative techniques necessary for further
study in business, economic, and finance. More specifically, upon successful completion of
this course, the student will be able to:

1. Describe the differences between the various types of data.
2. Apply various descriptive graphical techniques.
3. Calculate and interpret measurements of central tendency.
4. Describe the characteristics of discrete and continuous probability distributions.
5. Calculate the standardized values of a normal distribution.
6. Calculate estimates of population parameters using sample data.
7. Develop confidence interval
8. Determine sample size
9. Conduct hypothesis testing
10. Perform simple linear regression analysis and compute correlations using paired data.
11. Use SPSS™ software for statistical analysis
12. Use SPSS™ software for generating statistical graphs
COURSE POLICIES

- Quizzes and examinations (midterm and final) are in-class tests; there will be no take-home tests. Quizzes are closed-book tests; midterm and final exam are open-text-book.
- There will be no make-up exam (except for very special reasons) or extra-credit assignments.
- Final examination is cumulative, based on the entire syllabus.
- Students must bring a calculator for quizzes and exams; sharing of calculators not allowed.
- Assignments will be discussed in the class well in advance, and students will be given sufficient time to complete them.
- Assignments submitted after the deadlines will not be accepted.
- There will be absolutely no tolerance of dishonest conduct during the exams, and severe measures will be taken against dishonest conduct. University academic honesty policies will be enforced – check www.gwu.edu
- Courtesy rules: No cell phone calls; please turn off your cell phones during class sessions. No consumption of food is allowed; drinks are allowed when consumed in a quiet manner.
- [NOTE: for university policies on teaching, see http://www.gwu.edu/~academic/Teaching/main.htm]

COURSE REQUIREMENTS

Four Quizzes, In-Class Midterm, In-Class Final, Two SPSS Projects and regular class attendance.

GRADING POLICY

- Quizzes: 20%
- Mid-Term: 25%
- Final Exam: 35%
- Assignments/Projects: 20%

GRADING SCALE

- A = 94-100%; A- = 90-93%; B+ = 87-89%; B = 83-86%; B- = 80-82%; C+ = 77-79%; C = 73-76%; C- = 70-72%; D+ = 67-69%; D = 63-66%; D- = 60-62%; F <60%

EXAM SCHEDULE

- Mid-Term: To be announced. Final Exam: To be announced by the University.
- There will be a quiz (TBA) for every two chapters.

ACADEMIC INTEGRITY

I personally support the GW Code of Academic Integrity. It states:: “Academic dishonesty is defined as cheating of any kind, including misrepresenting one's own work, taking credit for the work of others without crediting them and without appropriate authorization, and the fabrication of information.” For the remainder of the code, see: http://www.gwu.edu/~integrity/code.html

SUPPORT FOR STUDENTS OUTSIDE OF THE CLASS ROOM

DISABILITY SUPPORT SERVICES (DSS)

Any student who may need an accommodation based on the potential impact of a disability should contact the Disability Support Services office at 202-994-8250 in the Marvin Center, Suite 242, to establish eligibility and to coordinate reasonable accommodations. For additional information please refer to: http://gwired.gwu.edu/dss/

UNIVERSITY COUNSELING CENTER (UCC): 202-994-5300

The University Counseling Center (UCC) offers 24/7 assistance and referral to address students' personal, social, career, and study skills problems. Services for students include:
- crisis and emergency mental health consultations
- confidential assessment, counseling services (individual and small group), and referrals

http://gwired.gwu.edu/counsel/CounselingServices/AcademicSupportServices
SECURITY
In the case of an emergency, follow the evacuation procedures for the building. After evacuation, seek shelter at a predetermined rendezvous location. An evacuation will be considered if the building we are in is affected or we must move to a location of greater safety. We will always evacuate if the fire alarm sounds. In the event of an evacuation, please gather your personal belongings quickly and proceed to the nearest exit. The classroom (ACAD 100) has an exit door at the back, which leads to open space. Also, the door on the left side of the classroom leads to hallway, which also takes you to an exit door. Do not use the elevator. Once you have evacuated the building, proceed to our primary rendezvous location, which is the Library. In the event that this location is unavailable, we will meet at the Clock Tower.

HOMEWORK
Must practice all the solved examples in the chapters (excluding those in “Optional” sections). All the problems in “Understanding the Principles” and “Learning the Mechanics” sections of the exercises are strongly recommended. Answers to select odd-numbered problems are given in in Appendix (starting on Page 818). Also, some specific problems will be assigned. Do as many problems as possible. Homework will not be graded.

Chapter 1:
All the “Learning the Mechanics” problems and the other problems with answers.

Chapter 2:
All the “Learning the Mechanics” problems and the other problems with answers.

Chapter 3:
All the “Learning the Mechanics” problems and the other problems with answers.

Chapter 4:
All the “Learning the Mechanics” problems and the other problems with answers.

Chapter 5:
All the “Learning the Mechanics” problems and the other problems with answers.

Chapter 6:
All the “Learning the Mechanics” problems and the other problems with answers.

Chapter 7:
All the “Learning the Mechanics” problems and the other problems with answers.

Chapter 8:
All the “Learning the Mechanics” problems and the other problems with answers.

Chapter 9
All the “Learning the Mechanics” problems and the other problems with answers.

Chapter 11
All the “Learning the Mechanics” problems and the other problems with answers.

Additional problems will be assigned from each chapter for practice.