Texas A&M University - Corpus Christi  
Department of Mathematics and Statistics  
Math 1442-002 Business Mathematics  
Spring 2013

Course Information

Meeting Time and Place: MWF 9:00 – 9:50 PM CI-113
Instructor: Coulibaly Nene
E-MAIL: Nene.Coulibaly@tamucc.edu
Web Page Address: http://faculty.tamucc.edu/ncoulibaly/
Office Address: CI 304
Office phone: 361-825-2219
Office hours: TR 11:00 AM – 12:30 PM & MW 4:45 PM – 5:30 PM

Course Description:

This is an introduction to statistical methods used in the physical, life and social sciences. Topics covered include: statistical thinking, descriptive Statistics, sampling & data collection, probability, probability distributions, the binomial distribution, the normal distribution, central limit theorem, confidence intervals, hypothesis testing, correlation & simple linear regression, categorical data analysis, one way analysis of variance.

Prerequisites for the Course

- Math 1314 or placement beyond college algebra.

Required Textbook and Supplies

- Elementary Statistics by Mario F. Triola, 11th edition ISBN 0558875130 (there is no need to buy the book if you feel comfortable with the electronic version available in MyLabsPlus)
  - Earlier edition also OK, electronic version available with MyLabsPlus OK
- MyLabsPlus access kit is required for homework and quizzes. I will discuss this the first day of class. You can access it at tamucc.mylabsplus.com
- A calculator is required for every quiz and examination. A TI-83/84 calculator or similar is recommended.

Optional

- Minitab software will be provided in the Lab and need not be purchased unless you intend to work on labs at home.
- There is a Minitab manual (not the Minitab Manual required on the Lab) online at: http://www.minitab.com/support/docs/rel14/MeetMinitab14.pdf http://www.minitab.com/support/docs/rel14/MeetMinitab14.pdf
**GRADING**

- The following assessments will be given during the semester: two examinations (20% each), final exam (20%), Lab section (15%), homework (15%), and quizzes (10%).

In summary: Final grades will be assigned as follows

<table>
<thead>
<tr>
<th>Assessment</th>
<th>Percentage of Grade</th>
<th>Grade Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 Exams</td>
<td>40%</td>
<td>90% - 100% = A</td>
</tr>
<tr>
<td>Lab Section</td>
<td>15%</td>
<td>80% - 89% = B</td>
</tr>
<tr>
<td>Homework</td>
<td>15%</td>
<td>70% - 79% = C</td>
</tr>
<tr>
<td>Quizzes</td>
<td>10%</td>
<td>60% - 69% = D</td>
</tr>
<tr>
<td>Final Exam</td>
<td>20%</td>
<td>Below 60% = F</td>
</tr>
</tbody>
</table>

**Tentative Schedule**

Available online at: [http://faculty.tamucc.edu/ncoulibaly/](http://faculty.tamucc.edu/ncoulibaly/), just follow the MATH-1442 link.

**STUDENTS LEARNING OBJECTIVES**

- Students will be able to use descriptive statistics and graphical exploration to summarize key features of experimental data.
- Students will be able to perform elementary probability calculations, primarily with the normal distribution.
- Students will be able to state, understand the importance of, and apply the Central Limit Theorem to experimental data.
- Students will be able to perform hypothesis tests of the following forms: one and two sample t-tests, ANOVA, and linear regression.
- Students will be able to analyze an experimental situation to determine appropriate statistical analyses.
- Students will be able to interpret the results of all calculations and statistical tests in the context of the experiments that generate that data, and will be able to express these interpretations clearly in writing.
- Students will be able to use appropriate technology tools to perform needed calculations and tests.

**Instructional Methods and Activities**

Methods for instruction include the following:

- Lecture.
- Demonstrations.
- Use of computer resources, including statistical software, spreadsheets, and the Internet for data location, data organization, and data analysis.

**Class Policies**

- Homework is assigned online regularly through MyLabsPlus that can be accessed at tamucc.mylabsplus.com (you need to buy an access code) and due as specified. No late homework will be accepted unless there is a valid excuse. If you have problems to access the system you have to let me know as soon as possible.
- There is an online quiz immediately after each chapter is finished.
- Two semester tests will be administered in class on **Wednesday, February 27th**, and **Monday, April 8th**. These dates may be changed with due notice announced during class time. You are allowed to bring
in one page of notes, written or typed on both sides on a sheet not larger than 8.5”x11”. Your name should be written in the top of the page in large and clear letters. Pages of notes and/or calculators cannot be shared. Cell phones cannot be used as calculators. If an extra credit work is assigned, or extra points are given, the total score should not exceed 100%. No points will be “saved” toward the next examination.

- **There will be no makeup for a missed semester test.** If a semester test is missed, its score will be replaced by the score on the final exam. The opposite is not true. A missed final exam will result on a score of 0 points.

- Final exam will be administered on **Wednesday May 15th, from 8:00 to 10:30 am**. It is a comprehensive examination over all material covered during the semester. You will be allowed to bring in two pages of notes following the same format described above. **ABSOLUTELY NO EARLY final examination, so make travel arrangements accordingly.**

- Attendance will be taken each class. Talking during class time and tardiness are often disruptive to the whole class and are not appreciated. If you are delayed and arrived late please do so quietly. Excessive tardiness, disruptive talking, disruptive behavior or performing activities not related to the class will be counted as absences and may cancel bonus points for attendance. Cell phones and such must be turned off before class. 95% attendance or more will result in 2% as bonus points added to your total score at the end of the semester that usually is helpful to determine borderline grades. The instructor is NOT responsible for informing absent students what was covered in previous classes, homework or any other announcements.

- A grade of incomplete will only be given in exceptional circumstances, such as a death in the family or personal injury that might prevent someone from taking the final exam. (Please notice that an incomplete grade can only be given to students that are passing the course but have not completed the required work for reasons beyond the students’ control). In this case, it is the responsibility of the student to notify me as soon as possible, preferably by email, and to fill the required “Incomplete Form” available from the University Registrar. If this is not done, a score of 0% will be assigned for any incomplete exams and a final grade will be computed using the criteria described above.

- Please check carefully the date and time of the tests as I cannot change them for any other reasons not considered truly exceptional, that is; beyond the students’ control.

- University students are expected to conduct themselves in accordance with the highest standards of academic honesty. Academic misconduct for which a student is subject to penalty includes all forms of cheating, such as illicit possession of examinations or examination materials, falsification, forgery, complicity or plagiarism. (Plagiarism is the presentation of the work of another as one’s own work.) In
this class, academic misconduct or complicity in an act of academic misconduct on an assignment or test will result in a grade of 0% on that assignment or test.

- Although obviously I hope all goes smoothly for you this semester, events can sometimes occur that make dropping a course necessary or wise. I encourage you to consult with me before you decide to drop to be sure it is the best thing to do. Should dropping the course be the best course of action, you must initiate the process to drop the course by going to the Student Services Center and filling out a course drop form. Just stopping attendance and participation WILL NOT automatically result in your being dropped from the class. **Friday April 12th, is the last day to drop a class with an automatic grade of “W” this term. I cannot personally assign a grade of W.**

- The instructor reserves the right to make changes to the above with due notice to the students. These changes will be announced in class and each student is responsible for keeping herself/himself informed of such changes.

**Legal Statements**

**Disabilities Accommodations**

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute 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 call or visit Disability Services at (361) 825-5816 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.tamucc.edu/provost/university\$\do6(r)ules/index.html

For assistance and/or guidance in the grade appeal process, students may contact the Office of Student Affairs.