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BRAZOSPORT COLLEGE

MATH 1342 – STATISTICS

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COURSE SYLABUS

Term: Spring 2012
Course #: 1342
Course Schedule: MTW 08:55-08:50
Course Location: AHS

Instructor: Dr. Calin Agut,
Office: J-202, Department of Mathematics
E-mail: Calin.Agut@brazosport.edu
Phone: 230-3274
Office Hours: (TBA) _____

Final Exam (tentative): 5/7 and 5/8/12, 08:00-08:50
Withdraw last date: 3/30/12

Course Description/Overview

The *Statistics* course is design as an elementary course. It will apply a lot of Mathematics skills and extend the mathematical research of real life problems and situations. The course will include a study of Measures, Probability, Binomial Distribution, Estimations and many others. The MS Excel application will be used for some applications.

Credits: 3.

Textbook and Resources

The course textbook is *Elementary Statistics using the TI 83/84 Plus Calculator*, by M. F. Triola, The Pearson Addison Wesley Company, 2011, 3rd Ed

Required Materials:

Graphing Calculator, TI-83 or better. No iPad, Tablet or computer is allowed to be used.

Prerequisites:

MATH 1314 or approval of the division chair. Basic skills in algebra are required. These include, but are not limited to, operations with numbers, set theory, logic and geometry. Basic skills in using PC, MS Office and Excel are required.

Format

This course is a on a hybrid format, that means we meet only once per week on campus. The student is responsible to have prepared the assigned lessons; the on campus meeting is designed for a Lab, when only applications and practice exercises will be done. No theory will be taught during the Lab time.

When sitting at the Lab, the student must be sure that s/he has appropriate access to a PC station.

Assessments:

There will be several quizzes, one Test (Midterm) and one Final Exam. Any assessment may contain exercises, problems and theoretical questions as well. Some assignments will be done online, some of them in class, unannounced.

Grading Policy/Evaluation:

The grades will be counted in the following way:

Quizzes	30%
Test(s)	40%
Final Exam:	30%

Homework:

The instructor will regularly assign homework (see attach). Even the homework will NOT be collected, it is the students' responsibility to practice on all of the assigned exercises. Most of the questions on any Quiz, Class Assignment or Exam will be chosen from the homework sets, or similar.

The students are expected to prepare the next class' lesson listed on the attached schedule.

Quizzes:

Several unannounced quizzes from the homework can be given at any time during the class. No make-up for quizzes is allowed, under any circumstances.

Test(s)

Several Tests will be administrated in the regular class. They might be on open-answer or multiply-choice format. If the tests will be open-answer tests and the students are required to show all the work performed on the tests' paper in a methodical manner. A poor mathematical presentation on the work may be reflected in a lower grade.

The dates for the Tests are stated on the Schedule (see attached), as tentative; the instructor will announce the exact date and time in the class, prior. For this reason, no make-up test is allowed, unless extraordinary circumstances. If so, the make-up must be completed within 3 days after the regular date for the test (in LAC).

Final Exam

The Final Exam is mandatory and comprehensive. Any possible change will be announced in class and is the student's responsibility to be informed. Missing the Exam might be reflected as failure of the course.

No make-up is allowed for the Final, under any circumstances.

Grading Scale:

Unless an announced in changes is made, the following scale will be applied for this course:

A:	90-100;
B:	80-89;
C:	70-79.
D:	60-69
F:	< 60.

Attendance:

The students are strongly encouraged to attend every Lab class. Each class meeting is considering as an entity. After 4 absences the instructor will consider "excessive absences" and may fail the student.

To avoid unnecessary class disruptions, the students are expected to arrive on time and remain seated until the class is dismissed. If a student is coming late in or is leaving earlier the class, the instructor may consider it as an absence.

The time spent in the class, the student will follow the instructor's directives and will respect the School's student conduct (including Academic Honesty). If the instructor will have any question regarding the cheating on any student's work, that student will be removed from the class indefinitely.

Dropping policy

No dropping will be initiated by the instructor at any time, unless extraordinary circumstances, official documented.

To be eligible for a reinstatement, the student must bring official documents and have an average of at least 70% in his/her class participation.

Time requirement:

Taking into account the volume of the information and the homework assigned, a minimum of 8 hours a week outside of class is required.

Students with disabilities:

Please address any request to the School Staff so that we can arrange for proper accommodation. It is my policy and priority to allow equal opportunity for every student.

Miscellaneous

No electronic recording device is allowed in the class. The students may only take written notes from the class.

No cell phones are allowed to be used during the class, quizzes, tests or exams. Please turn off any electronic device which may disturb the class activity.

No food or drink is allowed to be brought into the class/Lab and be consumed, at any time.

No other electronic device, including laptop, palm, iPod, etc is allowed to be brought and used in class, at any time.

If the student does not comply with those requirements, an academic action may be immediately taken by the instructor (mark absent for the entire meeting, grade of 0 for the assignment, invite to leave the class, removed from the class indefinitely, etc).

There is no initial intention for dropping any of the scheduled assignments.

IMPORTANT:

Any further information will be presented in class by the instructor and is the student's responsibility to be informed.

Information may be provided via email (the one you use for coursecompass.com) and is recommended to be checked often, at least twice per week.

Because of the possible schedule conflict, the office hours will not be available during the Exam week unless special request by student(s).

Course Outcomes:

Upon completion of the course, the student will be able to:

1. Identify non-randomness in a sampling technique,
2. Describe the center of a data set using the measures of central tendency,
3. Measure the dispersion of data set using the measures of range, variance and standard deviation,
4. Find the probability of an event using permutations and combinations,
5. Apply the addition rule for finding probability,
6. Apply the conditional probability to compound events,
7. Find the probability of an event using the binomial distribution,
8. Calculate the mean of a discrete random variable,
9. Compute the expected value in an application problem,
10. Compute probability using the standard normal distribution,
11. Estimate a population mean using confidence interval,
12. Estimate a population variance using confidence intervals,
13. Construct and test a hypothesis.

Academic Honesty:

Brazosport College assumes that students eligible to perform on the college level are familiar with the ordinary rules governing proper conduct including academic honesty. The principle of academic honesty is that all work presented by you is yours alone. Academic dishonesty including, but not limited to, cheating, plagiarism, and collusion shall be treated appropriately. Please refer to the BC Student Guide for more information, this is available online at <http://www.brazosport.edu> , click on the link found on the left side of the homepage.

Students with disabilities:

Brazosport College is committed to providing equal education opportunities to every student. Brazosport College offers services for individuals with special needs and capabilities including counseling, tutoring, equipment, and software to assist students with special needs. Please contact Phil Robertson, Special Populations Counselor, 979-230-3236 for further information.

Other student Services Information:

Your course on WebCT: <http://webster.brazosport.edu>

Information about study skills and tutoring for math, reading, writing, biology, chemistry and other subjects is available in the Learning Assistance Center (LAC), see www.brazosport.edu/~lac or call 979-230-3253.

The Student Services provides assistance in the following:

Counseling and Advising	979-230-3040
Financial Aid	979-230-3294
Student Activities	979-230-3355

To reach the Information Technology Department for computer, email, or other technical assistance call the Help Desk at 979-230-3266.

Statistics

MATH 1342

LESSONS/HOMEWORK SUMMARY

Lesson	Homework	Schedule (Tentative)
1.6		Week 1-15
1.2	Basic Skills and Concepts odd numbers	Week 1-15
1.3	Basic Skills and Concepts odd numbers	Week 1-15
1.4	Basic Skills and Concepts odd numbers	Week 1-15
1.5	Basic Skills and Concepts odd numbers	Week 1-15
2.2	1-17 odd numbers	Week 1-15
2.3	Basic Skills and Concepts odd numbers	Week 1-15
2.4	1-15 odd numbers	Week 1-15
2.5	Basic Skills and Concepts odd numbers	Week 1-15
3.2	Basic Skills and Concepts odd numbers	Week 1-15
3.3	1-33 odd numbers + 29, 31, 33, 35	Week 1-15
3.4	1-29 odd numbers	Week 1-15
4.2	1-31 odd numbers	Week 1-15
4.3	1-31 odd numbers	Week 1-15
4.4	1-29 odd numbers	Week 1-15
4.5	1-23 odd numbers	Week 1-15
4.7	1-31 odd numbers	Week 1-15
Review	Will be provided	Week 1-15
Test 1		3/7/2012
5.2	1-21 odd, 25, 27	Week 1-15
5.3	1-31 odd numbers	Week 1-15
5.4	1-13 odd numbers	Week 1-15
6.2	1-51 odd numbers	Week 1-15
6.3	1-29 odd numbers	Week 1-15
7.2	1-31 odd numbers	Week 1-15
7.3	1-21 odd numbers	Week 1-15
7.4	1-17 odd numbers	Week 1-15
7.5	1-17 odd numbers	Week 1-15
8.2	1-35 odd numbers	Week 1-15
8.3	1-17 odd numbers	Week 1-15
8.4	1-13 odd numbers	Week 1-15
8.5	1-17 odd numbers	Week 1-15
8.6	1-11 odd numbers	Week 1-15
Review	Will be provided	Week 1-15
Test 2		4/30/2012
Final Review	Will be provided	
Final Exam	Regular time	5/7 and 5/8/2012

The exercises for all the homework are those numbered

4n+1, unless specified.

Note: start with n=0

For 4n+1: 1,5,9,13,17,...

Note: All the sections/lessons are form the book:
"Elementary Statistics Using Excel", 4e, by Triola

The Schedule for the Tests and Final Exam is just a **tentative**.
The instructor may operate changes at any time.