

Introduction to Biomedical Statistics  
MATH 1370.03 – Fall 2014  
MWF 10 – 10:50 am, AB4 203

**Instructor:** Mrs. Cathy Lockwood  
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**Office Hours:** MWF 9:00-9:30 TTH- 9:30-10:30, and All others by appointment.

**Text:** *Statistics: Learning from Data* by Roxy Peck.

**Course Objective:** Upon completion of this course, the student will be able to

1. Understand and construct graphical summaries of data,
2. Understand and compute numerical and tabular summaries of data,
3. Construct and interpret confidence intervals,
4. Construct and interpret tests of statistical hypotheses,
5. Realize the limitations of statistics in the real world.

**Course Description:** This is an elementary statistics course specifically suited to those seeking entrance into the Nursing profession. It is designed to foster critical thinking about data. Coverage includes graphical and numerical descriptive methods, measures of central tendency and variation, the basic concepts of statistical inference, the notion of estimators, confidence intervals, and tests of hypotheses. Software, such as SPSS and/or Minitab, will be used to analyze data. Prerequisite: THEA score of 270 or its equivalent.

**Assignments and Exams:** Homework will be assigned but not graded. Quiz problems will be assigned *and will be graded*. There will be three/four (3-4) major exams and a comprehensive Final Exam. Given on 12/08/2014 @ 11:00 am-1:00 pm

**EXAM MAKE-UP POLICY AND PROJECT:**  
**MAKEUP EXAMS WILL NOT BE GIVEN.**  
**LATE WORK IS NOT ACCEPTED.**

**Grading Plan and Letter Grade**

A	450-500
B	400-449
C	350-399
	300-349
F	below 299

- **Major Exams:**  
➤ **Final Exam:**  
➤ **Quizzes/Projects/other:**

3/4@ 100 points      300-400 pts  
1 @ 100 points      100 points  
100 points      100 points  
➤ 500 points

Notes:

- **Technology** -A calculator with a square root key would be useful. We will use SPSS to analyze data. You will be expected to use SPSS on homework and exams.

- **Attendance**-You should attend all classes; success in the course depends on this. Students are solely responsible for any missed material.

- **Classroom Etiquette** - Free discussion, inquiry, and expression are encouraged in this class. Classroom behavior that interferes with either (a) the instructor's ability to conduct the class or (b) the ability of students to benefit from the instruction is not acceptable. Examples of such behavior may include routinely entering the class late or departing early; use of beepers, cellular telephones, or other electronic devices; repeatedly talking in class without being recognized; talking while others are speaking; or arguing in a way that is perceived as "crossing the line of civility." In the event of a situation in which a student legitimately needs to carry a beeper/cell phone to class, prior notice and approval of the instructor is required.

- **Academic Dishonesty** - All students are expected to engage in all academic pursuits in a manner that is above reproach. Students are expected to maintain honesty and integrity in the academic experiences both in and out of the classroom. Any student found guilty of dishonesty in any phase of academic work will be subject to disciplinary action. The University and its official representatives may initiate disciplinary proceedings against a student accused of any form of academic dishonesty including but not limited to, cheating on an examination or other academic work which is to be submitted, plagiarism, collusion and the abuse of resource materials. For a complete listing of the university policy, see:

<http://www.shsu.edu/administrative/faculty/sectionb.html#dishonesty>

- **Disability Issues**-It is the policy of Sam Houston State University that individuals otherwise qualified shall not be excluded, solely by reason of their disability, from participation in any academic program of the university. Further, they shall not be denied the benefits of these programs nor shall they be subjected to discrimination. Students with disabilities that might affect their academic performance are expected to visit with the Office of Services for Students with Disabilities located in the Counseling Center. If you have a disability that may affect adversely your work in this class, then I encourage you to register with the SHSU Counseling Center and to talk with me about how I can best help you. All disclosures of disabilities will be kept strictly confidential. NOTE: No accommodation can be made until you register with the Counseling Center. For a complete listing of the university policy, see:

[http://www.shsu.edu/~vaf\\_www/aps/811006.pdf](http://www.shsu.edu/~vaf_www/aps/811006.pdf)

- **Student Absences On Religious Holy Days Policy** – Students are excused from attending classes or other required activities, including examinations, for the observance of a religious holy day, including travel for that purpose. For a complete listing of the university policy, see:

[http://www.shsu.edu/~vaf\\_www/aps/documents/861001.pdf](http://www.shsu.edu/~vaf_www/aps/documents/861001.pdf)

- **Visitors In The Classroom** - Only registered students may attend class. Exceptions can be made on a case-by-case basis by the professor. In all cases, visitors must not present a disruption to the class by their attendance.

- **Use of Cell Phones and Text Messaging in the Classroom** – The university policy may be found at [http://www.shsu.edu/~vaf\\_www/aps/documents/100728.pdf](http://www.shsu.edu/~vaf_www/aps/documents/100728.pdf). Use is prohibited in class.

In an emergency, you

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Syllabus may change and any changes will be announced.