

MATH 3038 – 02 (Fall 2012) Syllabus
2:30 – 3:50pm (TR) @ Bayou 3315

Instructor: Kevin Barlow Office: Bayou 2325
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Office hour: TR 4:00 – 5:30pm or by appointment

Textbook: “[Introductory Statistics, 7th Edition \(ISBN: 978-0-470-44466-5\)](#)” by Prem S. Mann

Prerequisite: College Algebra or equivalent

Course Objectives/Learning Outcomes: Upon completion of this course, students will be able to:

- explain the difference between a population and a sample,
- organize and graph data,
- calculate and apply descriptive statistics,
- apply the basic concepts of probability,
- apply the basic concepts of the binomial probability distribution,
- determine the z and x values when an area under the normal distribution curve is known,
- apply the basic concepts of sampling distributions,
- estimate the mean and proportion of a population,
- conduct hypothesis testing about the population mean and the population proportion, and
- conduct hypothesis testing about the difference between two population means and two population proportions.

Instructional Methodology: This course will mainly utilize PowerPoint lectures, combined with class discussion and problem solving sessions led by the instructor.

Attendance: Attendance is important to success in this course. Each student is responsible for all material covered and assignments due even when absent.

Honesty Code: Each student is expected to understand and abide by the UHCL Honesty Code; **I will be honest in all my academic activities and will not tolerate dishonesty.** See the catalog for a full description of the UHCL academic honesty policy.

Disability Policy: If you are certified as disabled and entitled to accommodation under the ADA, section 503, please notify the instructor as soon as possible. If you are not currently certified and believe you may qualify, please contact UHCL Health and Disability Services office.

Syllabus Statement - 6 Drop Rule: 6 Drop Rule Limitation - Students who entered college for the first time in Fall 2007 or later should be aware of the course drop limitation imposed by the Texas Legislature. Dropping this or any other course between the first day of class and the census date for the semester/session does not affect your 6 drop rule count. **Dropping a course**

between the census date and the last day to drop a class for the semester/session will count as one of your 6 permitted drops. You should take this into consideration before dropping this or any other course. Please visit www.uhcl.edu/records for more information on the 6 drop rule and the census date information for the semester/session.

Lectures: Student participation in class lectures is important to success in this course. Students should be prepared to ask and answer questions.

Vocabulary Quizzes (10%): At the end of each chapter, there is a list of vocabulary words. The student is expected to be familiar with these terms as a part of building their statistical literacy. There will be a vocabulary quiz after each chapter is covered. Each quiz will consist of five vocabulary words.

Homework (10%): At the end of each chapter is a Self-Review Test. The student is responsible for understanding the solution to each of the problems in the Self-Review Test; however, only 5 problems from each Self-Review Test will be assigned as homework problems. These 5 problems will be assigned a grade for completion; the solutions will be discussed in class. Homework in this course is intended as a guide to successful completion of the exams. Late homework will not be accepted.

Homework Problems

Chapter 1 Self-Review Test: 1, 2, 3, 6, 7

Chapter 2 Self-Review Test: 2, 5, 6, 8, 9

Chapter 3 Self-Review Test: 19, 21, 23, 24, 27

Chapter 4 Self-Review Test: 10, 12, 14, 18, 20

Chapter 5 Self-Review Test: 5, 8, 14, 15, 17

Chapter 6 Self-Review Test: 3, 9, 10, 11, 12

Chapter 7 Self-Review Test: 3, 13, 15, 17, 18

Chapter 8 Self-Review Test: 2, 8, 9, 11, 13

Chapter 9 Self-Review Test: 2, 7, 9, 16, 19

Chapter 10 Self-Review Test: 3, 4, 5, 6, 7

Major Exam 1 (25%): Major Exam 1 will cover Chapters 1 – 5. Items on the exam will include vocabulary words and problems similar to those in the Self-Review Test of each chapter. Calculators are allowed, but no cell phones are allowed.

Major Exam 2 (25%): Major Exam 2 will cover Chapters 6 – 8. Items on the exam will include vocabulary words and problems similar to those in the Self-Review Test of each chapter. Calculators are allowed, but no cell phones are allowed.

Final Exam (30%): The Final Exam will be comprehensive and will cover Chapters 1 – 10. Items on the exam will include vocabulary words and problems similar to those in the Self-Review Test of each chapter. Calculators are allowed, but no cell phones are allowed.

Make-Up Exams: Make-up exams will be allowed on a case-by-case basis and only for extreme circumstances. If a student is granted a make-up exam, the make-up exam will be administered on Saturday, December 1, 2012, at 8:00 a.m.

Extra Credit: There will be no opportunities for extra credit.

Final letter grade assignment:

A:	92.5 – 100
A-:	89.5 - 92.4
B+:	86.5 - 89.4
B:	82.5 - 86.4
B-:	79.5 - 82.4
C+:	76.5 - 79.4
C:	72.5 - 76.4
C-:	69.5 - 72.4
D+:	66.5 - 69.4
D:	62.5 - 66.4
D-:	59.5 - 62.4
F:	00.0 - 59.4

MATH 3038 –02 (Fall 2012) Tentative Schedule

8/28/12	Chapter 1: Introduction
8/30/12	Chapter 1 - Cont.
9/4/12	Chapter 2: Organizing and Graphing Data Chap. 1 VQ; Chap. 1 HW Due
9/6/12	Chapter 2 - Cont.
9/11/12	Chapter 3: Numerical Descriptive Measures Chap. 2 VQ; Chap. 2 HW Due
9/13/12	Chapter 3 - Cont.
9/18/12	Chapter 4: Probability Chap. 3 VQ; Chap. 3 HW Due
9/20/12	Chapter 4 - Cont.
9/25/12	Chapter 4 - Cont.
9/27/12	Chapter 5: Discrete Random Variables and Their Probability Distributions Chap. 4 VQ; Chap. 4 HW Due
10/2/12	Chapter 5 - Cont.
10/4/12	Chapter 5 - Cont.; Math Lab
10/9/12	Exam 1 Review; Chap. 5 VQ; Chap. 5 HW Due
10/11/12	Exam 1 (1.5 hours)
10/16/12	Chapter 6: Continuous Random Variables and the Normal Distribution
10/18/12	Chapter 6 - Cont.
10/23/12	Chapter 6 - Cont.
10/25/12	Chapter 7: Sampling Distributions Chap. 6 VQ; Chap. 6 HW Due
10/30/12	Chapter 7 - Cont.
11/1/12	Chapter 8: Estimation of the Mean and Proportion Chap. 7 VQ; Chap. 7 HW Due
11/6/12	Chapter 8 - Cont.
11/8/12	Chapter 8 - Cont.; Math Lab
11/13/12	Exam 2 Review; Chap. 8 VQ; Chap. 8 HW Due
11/15/12	Exam 2 (1.5 hours)
11/20/12	Chapter 9: Hypothesis Tests About the mean and Proportion
11/22/12	Thanksgiving
11/27/12	Chapter 9 - Cont.
11/29/12	Chapter 9 - Cont.
12/4/12	Chapter 10: Estimation and Hypothesis Testing: Two Populations Chap. 9 VQ; Chap. 9 HW Due
12/6/12	Chapter 10 - Cont.; Math Lab
12/11/12	Final Exam Review Chap. 10 VQ; Chap. 10 HW Due
12/13/12	Final Exam (3 hours)