

**Math 1342 Syllabus**  
**Statistics**  
**Fall 2016 Sul Ross State University**

**Secs. 003:** Tu, Th 2-3:15p in ACR 205  
**Instructor:** Marina Kimball  
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**Office Hours:** M, W, 11a:12p, 2-3p;  
Tu, Th: 11a:12p; also available by appointment

**Course Description:** This is an introductory statistics course designed to give the student the critical thinking skills necessary to interpret statistical information. This course will prepare the student for further statistical work in his/her field. Topics include: measures of central tendency, measures of variation, normal distributions, hypothesis testing, and graphical representations. Use of technology and real-world data is integrated throughout the course.  
**Prerequisites:** Completion of MATH 0301 or a satisfactory score on the Mathematics Placement Test.

**Student Learning Objectives** Successful students will demonstrate correct understanding and knowledge of the topics including but not limited to those listed in the previous paragraph through use of correct terminology, listing, identifying, and labeling. Students will translate, extend, synthesize, and apply knowledge of concepts and problem-solving methods to new contexts and situations. Students will demonstrate correct knowledge of the difference between numbers that are in exact form and numbers that are approximate and will be able to report numbers in exact form and with a correct approximation when required. Students will express their solutions clearly in writing and by using complete sentences when appropriate.

**Required Materials: Textbook:** Elementary Statistic, 12<sup>th</sup> Edition by Mario F. Triola, ISBN-10: 0-312-83696-0, most of Chaps. 1-9.

**You must also have access to Blackboard 9 and have an e-mail address that you check regularly be the e-address you have registered in Blackboard.**

**Class Materials:** Students are expected to be prepared in every class with pencils and paper to take notes and get involved in in-class assignments.

**Technology:** A **scientific calculator** will be required at various times during the semester. A scientific calculator has buttons labeled  $y^x$ ,  $e^x$ , and  $\ln x$  or something similar to these denotations.

**Grading:** Your grade will be based on a **Homework Assessment (HWA) grade worth 30%, in-class test grades worth a total of 70%**. Most every day I will be assigning **homework** exercises from the textbook that will be the basis of the in-class tests, quizzes, and exercises. There will be three types of HWA grades: **Class Study Problems (CSP), In-class Quizzes, and Homework Notebook (HN)**. There will be some grade given in almost every class period. Class study problems will give students a chance to work out a homework problem in class for a grade with an opportunity for discussion to aid in understanding. In-class quizzes will be similar to a small test in which no discussion is allowed and each student is graded as in a test.

**In-class Tests (70%)** Each of the 3 tests will count in the test average. However as a bonus to you, your highest test grade will count twice. Therefore, you will have 4 test grades in all. Students may only use one page of pre-written notes for each test in addition to writing/erasing implements and calculator. There will be 3 tests given during the term that will be based on the Unit Assignments. The dates for these tests are as follows:

**Attendance** I will be taking attendance as university policy precludes you from missing 3 weeks or more of school for anything other than authorized university activities. The only absences that are *excusable* are for university activities and for test days that you make up for full credit according to the guidelines given above. To excuse an absence due to a university activity, in addition to what is mentioned previously, you must also spend 1.5 hours in the tutoring lab (more info below) and have this time documented by one of the tutors or lab workers. If you have 6 or more unauthorized, unexcused absences, I reserve the right to drop you from this class with a grade of 'F', which is university policy

**A tutoring lab** is available on the 2<sup>nd</sup> floor of Ferguson Hall. It will be staffed with advanced math students who will be eager to help you work on problems, but will not do your homework for you. The hours of the tutoring lab will be posted when they become available.

**Classroom Conduct** It is important to conduct yourself in a college classroom so that everyone can benefit from good communication between instructor and students. My goal is to create a classroom environment in which everyone can do their best work, learn, and make the best grades possible.

Please also be aware of building codes prohibiting food, beverages, tobacco (smokeless or otherwise) in the classroom and rules for Academic Honesty that you will find in the Sul Ross Student Handbook. Use commonsense to think of anything else that will allow you to learn and do the best work that you can in this class, and for me to better help you do your best work. Being registered for this course does not allow you to behave in any manner you wish during class. You must keep other people in mind. It is within university policy for me to send a student out of this class on a temporary or permanent basis if disruptions or interruptions like the types listed above persist.

**Equal Access** The university is committed to equal **access** in compliance with the Americans with Disabilities Act of 1990 (ADA) and section 504 of the Rehabilitation Act of 1973. If you have questions regarding accessibility, please consult with the ADA coordinator, Grace Duffy, in the Accessibility Services Office in Ferguson Hall 112, and feel free to discuss this with me in private. The mailing address is Accessibility Services, Box C-122, Sul Ross State University, Alpine, Texas 79832. The telephone number is (432) 837-8203; FAX: (432) 837-8363.

### Important Dates

<b>Mon, August 22</b>	<b>First day of classes, first day of late registration and schedule changes</b>
<b>Thu, September 25</b>	<b>Last day for late registration and schedule changes</b>
<b>Fri, Nov 11</b>	<b>Last day to withdraw from Univ. or drop with a grade of “W” by 4 pm in Registrar's Office</b>
<b>Wed- Fri, Nov 23-25</b>	<b>Thanksgiving Day holiday, No Classes</b>
<b>Thu , Dec 1</b>	<b>Dead Day, No classes</b>
<b>Fri, Mon-Wed, Dec 2,5-7</b>	<b>Final Exams, End of Term</b>

## Tentative Schedule Subject to Change

Fall 2016	Tuesday	Thursday
Week 1	1st Day, Chap. 1: Statistics Definitions	Chap. 1: Definitions, Random Samples
Week 2	Chap. 2: Organizing Data Distributions, graphs	Organizing Data Distributions, graphs
Week 3	Labor Day Holiday	Chap. 3: Averages and Variation
Week 4	Measures of Variation	Chap. 3: Averages, Variation Percentiles, Boxplots
Week 5	Review for Test 1	Review/Test 1
Week 6	Chap. 5: Probability Probability Laws	Chap. 5: Probability More Probability Laws
Week 7	Chap. 5: Probability, Counting Techniques	Chap. 6: Probability Distributions
Week 8	Chap. 6: Probability Distributions	Chap. 6: Binomial Probabilities
Week 9	Chap. 6: Binomial Distributions	Binomial Distributions
Week 10	Review for Test 2	Review/Test 2
Week 11	Chap. 7: Standard Normal Distributions	Chap. 7: Standard Normal Distributions
Week 12	Chap. 7: Sampling Distributions	Sampling Distributions
Week 13	Chap. 8: Estimation, St. Dev. Known	Chap. 8: Estimation, St. Dev. Unknown
Week 14	Chap. 9: Hypothesis Testing: Testing the Mean	<b>Thanksgiving Holiday</b>
Week 15	Review for Test 3	
Week 16	Final Exam	