

Sul Ross State University Rio Grande College
MTH 3302
Probability and Statistics I

Location: Web
Term: Fall 2015

Lecturer: Patricia Nicosia, Ph.D.
Telephone: 703-4836 (Office)
E-mail: pnicosia@sulross.edu

Day/Time: First Meeting: Tuesday, August 25, 11 – 12:15 pm Teleconference: (Del Rio, 107), (Eagle Pass, B112), (Uvalde, B114c)
Second Meeting: Tuesday, October 13, 11-12:15 pm Teleconference: (Del Rio, 107), (Eagle Pass, B112), (Uvalde, B114c)
Third Meeting: Tuesday, December 1, 11 – 12:15 pm Teleconference: (Del Rio, 107), (Eagle Pass, B112), (Uvalde, B114c)

Text:

1. Larson & Farber, *Elementary Statistics: Picturing the World*, 6th Edition, Prentice Hall Publishing Company. ISBN 978-0-321-91121-6
2. Graphing Calculator Manual, ISBN 978-0-321-69379-2
3. Video Resources on DVD, ISBN 978-0-321-69374-7

Description: Math 3302 includes the following topics: descriptive statistics, probability, random variables and distributions, estimation and hypothesis testing.

Objectives: Students will be able to explain the basic concepts and goals of statistics, demonstrate ways to organize and describe data sets, use data to predict the probability of an event, create/use probability distributions, recognize normal (bell-shaped) distributions and use their properties in real-life applications, explain inferential statistics, make estimates about population parameters and describe the significance of relationships between two variables when data are presented as ordered pairs.

Exams: Test dates are fixed and will not change. No make-up examinations will be given except for genuine emergencies. The student is responsible for providing the instructor with written justification for the emergency absence. All documentation will be reviewed and then a decision will be made. **Exams will be taken at the RGC site where you are officially enrolled.**

Report: The written report will be about Pierre Fermat. It will be 1 – 2 typed pages. The report will be submitted on Blackboard. It is due on November 24 before midnight. You will not receive credit for work submitted late.

Grading: Your grade will be based on two exams (20% each), five chapter quizzes (10% each), and a written report (10%). Grades will be assigned as follows: A: 90%-100%, B: 80%-89%, C: 70%-79%, D: 60%-69%, F: below 60%.

Schedule: Math 3302 will cover Chapters 1 – 5.

Calculator: You will need a TI-83 or TI-84 graphing calculator.

Test dates: Exam I / October 13 / Teleconference site / 11 – 12:15 pm / Chapters 1 & 2
Exam II / December 1 / Teleconference site / 11 – 12:15 pm / Chapters 4 & 5

Class Schedule:

August 25

Syllabus, Course Introduction

September 1

An Overview of Statistics, Data Classification, Experimental Design

View videos 1.1, 1.2, 1.3

September 8

Chapter 1 Quiz Due (page 32, problems 1 – 8) by midnight

September 15

Frequency Distributions and Their Graph, View video 2.1

More Graphs and Displays, View video 2.2

September 22

Measures of Central Tendency, View video 2.3

September 29

Variation and Position, View video 2.4

October 6

Chapter 2 Quiz Due (Textbook page 120 “2 Chapter Quiz”, problems 1 – 7) by midnight

October 13

Exam I (Chapters 1 & 2), Teleconference rooms

Basic Concepts of Probability and Counting, Conditional Probability, View videos 3.1, 3.2

October 20

The Addition Rule, Additional Topics, View videos 3.3, .34

October 27

Chapter 3 Quiz Due (Textbook page 184 “3 Chapter Quiz”, problems 1 – 5) by midnight

Probability Distributions, Binomial Distributions, View videos 4.1, 4.2

November 3

Chapter 4 Quiz Due (Textbook page 228 “4 Chapter Quiz”, problems 1, 2, 3) by midnight

Introduction to Normal Distributions, The Standard Normal Distribution, View videos 5.1, 5.2

November 10

Normal Distributions-Finding Probabilities, Central Limit Theorem, View videos 5.3, 5.4

November 17

Normal Approximations to Binomial, View video 5.5

November 24

Chapter 5 Quiz Due (Textbook page 290 “5 Chapter Quiz”, problems 1 – 12) by midnight
Written report due by midnight (Blackboard)

December 1

Exam II (Chapters 4 & 5), Teleconference rooms

Additional Information:

- 1. All assignments will be submitted on Blackboard. You will not receive credit for assignments submitted after the due date.**
- Sul Ross State University Rio Grande College is committed to equal access in compliance with the Americans with Disabilities Act of 1973. It is the student’s responsibility to initiate a request for accessibility services. Students seeking accessibility services must contact the Student Support Specialist on their campus.
- Office Location: Del Rio , Room 219
- Office Hours:
Monday: 9 – 9:30 am, 11 – 12 pm
Tuesday: 9 – 9:30 am, 11 - 12 pm
Wednesday: 9 – 9:30 am, 11 – 12 pm
Thursday: 9 – 9:30 am, 11 - 12 pm
Also available anytime I’m in my office and by appointment.
***If I am teaching at another location, I will be available at that site.*
- Last day to drop courses with a “W” is Friday, November 13 by 4 pm.
- Distance Education Statement: Students enrolled in distance education courses have equal access to the university’s academic support services, library resources, and instructional technology support. For more information about accessing these resources, visit the SRSU website. Students should submit online assignments through Blackboard which require secure login information to verify students’ identities and to protect students’ information. Exams will be taken at the RGC site in which you are officially registered. The procedures for filing a student complaint are included in the student handbook. Students enrolled in distance education courses at Sul Ross are expected to adhere to all policies pertaining to academic honesty and appropriate student conduct, as described in the student handbook. Students in web-based courses must maintain appropriate equipment and software, according to the needs and requirements of the course, as outlined on the SRSU website.**