Math 13 – Introduction to Statistics
Peralta Class Code 21947

Lecture	Mon 3:30pm – 5:20pm, Room 033, BCC
	Wed 3:30pm – 5:20pm, Room 033, BCC
Instructor	Gaston Sanchez, PhD (BCC 355)
Office Hours	Tuesday 3:00pm - 4:00pm BCC 112 (LRC)
Website	http://www.gastonsanchez.com/teaching/math13
Textbook	*Understandable Statistics, 11ᵗʰ Edition*

Textbook *Understandable Statistics, 11th Edition*
by Charles Brase and Corrine Brase
Cengage Learning
ISBN 978-1-285-46282-0

Grading Policy

Your course grade is based on homework, in-class participation, midterm exams, and a comprehensive final exam. The percentage breakdown for each component is as follows:

In-class Participation	5%
Homework	15%
Midterm Exams	60%
Final Exam	20%

Your final grade will be determined according to the following scale:

A: 90 – 100%
B: 80 – 89%
C: 70 – 79%
D: 60 – 69%
F: 0 – 59%

Exams

- Midterm exams will include material and examples presented in lecture, examples from the textbook, and the exercises you are assigned in homework and for practice.

- Midterm exams are worth 60% of your course grade.

- The Final Exam will be a comprehensive exam, covering all topics presented in the course. It is worth 20% of your course grade. *The Final Exam will take place on the Monday of Final Exam week during class time 3:30pm – 5:20pm.*

- *Absolutely no make-up exams will be given.*

- You are allowed to use a *non-graphing* scientific calculator during each exam. Other electronic devices such as smart phones, mobile devices, laptops, and tablets are NOT permitted during exams.
- *Please keep all of your exams.* This work is the only evidence outside of attending class of your efforts to succeed in the course.

Homework

- Homework is worth 15% of your course grade. In order to receive full credit on homework, you must show how you arrived to your answers (i.e. write out your steps).
- Homework problems will be posted on the webpage: http://www.gastonsanchez.com/teaching/math13. As part of your homework, you are expected to read the textbook and attend class regularly. You will have a chance to work on homework at the end of some lectures.
- *Please* practice your mathematics writing skills. In order to succeed in future math courses, it is critical to know how to express yourself mathematically.
- You will need a non-graphing scientific calculator. Access to spreadsheet software (e.g. MicroSoft Excel, Google Sheets, Mac Numbers, Libre Office Calc) is recommended for homework.
- *Please save all homework problems you complete* neatly in a file, folder, binder, or ringed notebook. Never throw away the work you do for homework.

Course Content and Tentative Schedule

Chapters 1 – 9 will be covered. Each chapter is divided into three or more sections. We will cover about one or two sections per class period. After each class, I will upload the lecture slides to the webpage http://www.gastonsanchez.com/teaching/math13. There are three midterm exams and one comprehensive final exam for this class.

Exam	Chapters	Tentative Date
Exam 1	Ch 1-3: Introduction, Averages, Variation	Wed, Feb 18
Exam 2	Ch 4-6: Probability, Binomial and Normal Distributions	Mon, Mar 25
Exam 3	Ch 7-8: Estimation and Inference	Mon, Apr 29
Final	Ch 1-9: 1-8 + Correlation and Regression	Mon, May 18

To be successful in this course, you should spend about 15 hours per week outside of class time, studying the material and completing exercises. Some may need more time to do well.

Attendance Policy

You may be dropped if you are absent for more than one consecutive week of class without contacting me to explain your absences. Those who perform poorly on an exam, then fail to take the next one, *will* be dropped.

- Your attendance is an important part of your success in this course. Students who regularly miss class may therefore lose participation percentage points.
- While attending class, please help to maintain a decent learning environment.
- No laptops, tablets, cell phones, or other similar electronic devices are allowed during lecture. Please be considerate of others; turn *off* your cell phones and put them away.
- Sit close to the door if you must leave early. If you are late, please try to find a seat as quickly and quietly as possible.

Cheating Policy
Cheating is a very serious offense that I will not tolerate. The first time you are caught cheating on an exam I will give you a grade of 0% for that exam, and also drop your overall course grade by 10%. Both, or all, parties involved will be charged. (*No one caught or involved in cheating will earn an A in the course.*). If you are caught cheating a second time, I will give you an F.

Student Learning Outcomes
Upon completion of this course, students will:
1. Find and evaluate statistical information in discussions and presentations
2. Use statistical procedures and standard techniques in data gathering, summary, and presentations.
3. Interpret data sampling and inferential statistics (hypothesis testing and confidence intervals.)
4. Describe the rules of probability and the role of probability distributions such as the Binomial, Normal, and various other models.

Justification for the Course:
Satisfies the General Education and Analytical Thinking requirement for Associate Degrees. Provides foundation for more advanced study in mathematics and related fields. Satisfies the Quantitative Reasoning component required for transfer to UC, CSUC, and some independent four-year institutions. Acceptable for credit: CSU, UC. AA/AS area 4b, CSU area B4, IGETC area 2A.