

# MATH 219 – Statistics

# Course Syllabus Intersession 2016

Santa Ana College

Department of Mathematics

**Instructor Contact & Course Information:** Jorge Ramirez; Ramirez\_Jorge@sac.edu www.jramirezmath.weebly.com  
MATH219/SOC 219 – Statistics 18942/18943 M-F 5:30 -9:55PM H-108

**Prerequisite:** MATH 080/081 (C or better) or course equivalent skills as measured by a satisfactory score on the Math Level 3 exam and a course equivalent to Math 080/081.

**Course Description:** Statistics is the science of planning studies and experiments. This involves methods to obtain, organize, summarize, analyze, present and interpret data. The purpose of the course is to introduce students to the major concepts and tools for collecting and describing data (descriptive statistics), and drawing conclusions from data (inferential statistics).

Specifically, topics include methods of data collection and simulation; measures of central tendency, variability, and relative position; graphical summaries of data; linear regression and correlation; distributions, including normal and binomial distributions; probability theory; and inferential techniques, such as confidence intervals, hypothesis tests and goodness of fit.

## Student Learning Outcomes (SLO):

- (1) By the end of the semester students will correctly interpret a graphical display of data.
- (2) By the end of the semester students will take a statistical claim about a data set, perform an appropriate procedure, and write a conclusion that addresses that claim.

**Text:** *Elementary Statistics custom book*, Mario Triola. Pearson.

## Grading Criteria:

Homework/Activities	100 points
Exams - 3 (100 pts. ea.)	300 points
Project	100 points
<u>Comprehensive Final</u>	<u>200 points</u>
Total =	700 points

## Grade Scale:

"A" $\geq$ 630
629 $\geq$ "B" $\geq$ 560
559 $\geq$ "C" $\geq$ 490
489 $\geq$ "D" $\geq$ 420
419 $\geq$ "F"

**Homework** will be checked daily. Students must attempt each problem for full credit.

**Projects** will be a group assignment consisting of a presentation on a statistical claim and procedures used for conclusion.

**Make-up Policy:** The simplified version is **No make-ups** on short notice or after the due date. The formal policy is as follows, Make-up policy for Exams: Prior arrangements must be made at least 1 weeks in advanced with instructor, if the student has a serious and compelling reason (documentation is required). If any of the above requirements is not met, a score of zero will be issued for the missed exam. Make-up policy for assignments and activities: No make-up for in-class work; zero to half credit for late homework may be given with prior notification.

**Calculator policy:** A scientific calculator is required. A graphing calculator is strongly recommended models are TI-83 or 84 series. Cell phones are not allowed during exams to perform calculations.

**Attendance policy:** Attendance is the responsibility of the student. While attending class students are expected to demonstrate respect for the instructor and other students. This includes interfering with the rights of others to listen and participate or harassing others in anyway. Conduct should be in accordance with the Student Code of Conduct section Guidelines for Student Conduct in the 2015-2016 catalog. Absences do not excuse due dates (See make-up policy). A little Advice: Show up, take notes and do the homework.

## Disabilities:

If a student has a college verified disability, it is the responsibility of the student to notify the instructor in advance for any needs to be accommodated.

## Cheating/Plagiarism:

Santa Ana College maintains an environment in which academic honesty is expected; academic dishonesty, cheating and plagiarism are not tolerated. Please see Student Code of Conduct section Academic Honesty Policy Information in 2014-2015 catalog. Any student in violation of this code and policy in any assignment or examination related to this course shall be subject to the options specified in the policy statement.

# MATH 219 – Statistics

Weekly **PROJECTED** Schedule\*

# Course Schedule Intersession 2016

Week 1 (M,1/4):	1.1-1.3	
(T,1/5):	1.4, 2.1,2.3	
(W,1/6):	2.4, 3.1-3.2	
(Th,1/7):	3.3-3.4 / Review	
(F,1/8):	4.1-4.3	
Week 2 (M,1/11)	<b>Exam1/ 4.4-4.5</b>	<b>Exam 1: Ch 1,2,3 (M, Jan. 11)</b>
(T,1/12):	5.1-5.3	
(W,1/13):	5.4,6.1-6.2	
(Th,1/14):	6.3-6.5	
(F,1/15):	Review/ 7.1-7.2	
Week 3 (M,1/18):	<b>Holiday</b>	<b>No Instruction: (M, Jan. 18)</b>
(T,1/19):	<b>Exam2/ 7.3-7.4</b>	<b>Exam 2: Ch 4,5,6 (T, Jan. 19)</b>
(W,1/20):	8.1-8.4	
(Th,1/21):	8.5/ 9.1-9.3	
(F,1/22):	9.4-9.5/ Review	
Week 4 (M,1/25):	<b>Exam3</b>	<b>Exam 3: Ch 7,8,9 (M Jan. 25)</b>
(T,1/26):	10.1-10.3	
(W,1/27):	Topics in Ch11,12&13 & Review	
(Th,1/28):	<b>Projects</b>	<b>Project: (Th, Jan. 8)</b>
(F,1/29):	<b>Final</b>	<b>Final Exam: (F, Jan. 29)</b>

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**\*This guideline is an estimate and subject to change. Any modifications will be discussed in class. If you do not attend class it is your responsibility to obtain any changes from the instructor or a classmate.**

## **Important dates**

**Final Exam Dates:** Friday January 29<sup>th</sup>

## **Drop deadlines:**

January 5, 2016: last day to **Drop without** a “W” appearing on transcript

January 22, 2016: last day to **Drop** a class.

## **Classmate Info**

- 1.
- 2.
- 3.
- 4.