

# SAN DIEGO MESA COLLEGE SYLLABUS

## Mathematics 119 Elementary Statistics

Fall 2016

COURSE: MATH 119 Elementary Statistics

CRN: 89425

TIME: TTh 3:55pm-5:20pm

LOCATION: MS213

INSTRUCTOR: Dr. Hector Lemus

E-MAIL: hlemus@sdccd.edu (include MATH 119 in the subject)

WEBSITE: <http://blackboard.sdccd.edu>

OFFICE HOURS: Th 3:00pm – 3:50pm

COURSE DESCRIPTION: This course covers descriptive and inferential statistics. The descriptive portion analyzes data through graphs, measures of central tendency and dispersion. The inferential statistics portion covers statistical rules to compute basic probability, including binomial, normal, Chi-squares, and T-distributions. This course also covers estimation of population parameters, hypothesis testing, linear regression, correlation and ANOVA. Emphasis is placed on applications of technology, using software packages, for statistical analysis and interpretation of statistical values based on data from disciplines including business, social sciences, psychology, life science, health science and education. This course is intended for transfer students interested in statistical analysis.

PREREQUISITE: MATH 096 with a grade of "C" or better, or equivalent or Assessment Skill Level M50 or  
MATH 092 with a grade of "C" or better, or equivalent or Assessment Skill Level M45

TEXTBOOK: Weiss. Introductory Statistics, 9<sup>th</sup> Edition, Pearson, 2012

CALCULATOR: A scientific calculator is required. I will be using the TI-83+.

HOMEWORK: The homework assignments will be found on BlackBoard. You are to print them out hand them in on the day of each exam. In order to receive full credit for your homework, they must be done completely and neatly.

ACHIEVEMENT:	<i>Possible Points:</i>	Exams (4 x 50)	200
		Final (1 x 100)	100
		Homework (5 x 15)	75
		Class Participation	<u>25</u>
	<i>Total:</i>		400

GRADE SCALE: 360 – 400 = A (90 – 100%)  
320 – 359 = B (80 – 89%)  
280 – 319 = C (70 – 79%)  
240 – 279 = D (60 – 69%)  
000 – 239 = F (0 – 59%)

EXAM DATES: September 8, September 29, October 25, November 17, and December 15

## THANKSGIVING

BREAK: November 21—25

## IMPORTANT

DATES: Drop deadline: September 2  
Withdrawal deadline: October 28

## IMPORTANT POINTS AND POLICES:

- There will be NO make-up exams.
- Attend every class meeting. You are responsible for any material missed.
- Do not come to class late.
- Participation includes attendance and any in-class assignments.
- I give partial credit so show all work on homework and exams.
- Be respectful of the instructor and other students.
- Do NOT use cell phones or laptops in class.

## STUDENT LEARNING OUTCOMES:

1. Given a variety of situations, students will identify the appropriate hypothesis test.
2. Use the correct procedure to conduct a hypothesis test.
3. Communicate in words the result of the hypothesis test.

## STUDENT LEARNING OBJECTIVES:

Upon successful completion of the course the student will be able to:

1. Organize qualitative and quantitative data into meaningful charts and graphs.
2. Analyze data by comparing and contrasting graphs.
3. Evaluate measures of location, central tendency and variation.
4. Evaluate probabilities using a variety of computational methods.
5. Evaluate probabilities using a variety of distributions.
6. Apply the Central Limit Theorem to sampling distributions.
7. Use estimation techniques to determine confidence interval and sample size.
8. Perform and analyze hypothesis tests of means and proportions using both one-and two-sample datasets.
9. Evaluate correlation to determine the appropriateness of regression models.
10. Compute suitable regression models.

## CHEATING:

Students are expected to be honest and ethical at all times in the pursuit of academic goals. Students who are found to be in violation of Administrative Procedure 3100.3 Honest Academic Conduct, will receive a grade of zero on the assignment, quiz, or exam in question and may be referred for disciplinary action in accordance with Administrative Procedure 3100.2, Student Disciplinary Procedures.

## STUDENTS WITH DISABILITIES:

Students with disabilities who may need academic accommodations are encouraged to discuss their authorized accommodations from Disability Support Programs and Services (DSPS) with their professors early in the semester so that accommodations may be implemented as soon as possible.

# Course Schedule

## Math 119

### Fall 2016

<b>Week</b>		<b>DATE</b>	<b>TUESDAY</b>	<b>DATE</b>	<b>THURSDAY</b>
Week	1	Aug. 23	1.1, 1.2 & 2.1	Aug. 25	2.2 & 2.4
Week	2	Aug. 30	3.1 & 3.2	Sep. 1	3.3 & 3.4
Week	3	Sep. 6	<b>Review</b>	Sep. 8	<b>Exam 1</b>
Week	4	Sep. 13	4.1 – 4.4	Sep. 15	4.5, 4.6 & 5.1
Week	5	Sep. 20	5.2 & 5.3	Sep. 22	6.1 – 6.3
Week	6	Sep. 27	<b>6.5 / Review</b>	Sep. 29	<b>Exam 2</b>
Week	7	Oct. 4	7.1 – 7.3	Oct. 6	7.3, 8.1 & 8.2
Week	8	Oct. 11	8.3 & 8.4	Oct. 13	9.1 & 9.2
Week	9	Oct. 18	9.3 & 9.4	Oct. 20	<b>9.5 / Review</b>
Week	10	Oct. 25	<b>Exam 3</b>	Oct. 27	10.1 & 10.2
Week	11	Nov. 1	10.3 & 10.5	Nov. 3	11.1 & 11.2
Week	12	Nov. 8	12.1 & 12.2	Nov. 10	12.2 & 12.3
Week	13	Nov. 15	<b>Review</b>	Nov. 17	<b>Exam 4</b>
Week	14	Nov. 22	<b>No Class</b>	Nov. 24	<b>No Class</b>
Week	15	Nov. 29	13.1 & 13.2	Dec. 1	13.3 & 13.4
Week	16	Dec. 6	14.1 & 14.2	Dec. 8	14.3 & 14.4
Week	17	Dec. 13	<b>Review</b>	Dec. 15	<b>Final</b>