Basic Course Information

Semester	**Spring 2019**	Instructor Name	**Carlos Canez**
Course Title & #	**Math 119**	Email	**carlos.canez@imperial.edu**
CRN #	**21409**	Webpage (optional)	**Refer to Canvas**
Room	**D Yard**	Office	**Room 809**
Class Dates	**February 11 to June 7**	Office Hours	
Class Days	**Wednesday**	Cell Phone #	
Class Times Units	**4:30 – 6:35** **4.0**	Office contact if student will be out or emergency	**Call my cell, text or send me an e-mail**

Course Description

Graphical representation of statistical data, calculations, and uses of various averages, measures of variability, introduction to probability, probability distributions, confidence intervals, sample size determination and hypothesis testing, ANOVA, linear regression and Chi-square analysis. Students will learn to use technology to find confidence intervals, test statistics, regression lines, and to produce graphics. This course also provides supervised practice in the appropriate use of technology designed to assist students in calculations required in beginning statistics. (CSU, UC)

Student Learning Outcomes

Upon course completion, the successful student will have acquired new skills, knowledge, and or attitudes as demonstrated by being able to:

1. Determine and interpret a confidence interval for a population mean. (ILO2, ILO4)
2. Apply statistical inference to conduct formal significance tests concerning single populations. (ILO2)
3. Demonstrate the ability to use technology in computing and interpreting basic descriptive or inferential statistics. (ILO2, ILO4)
4. Apply techniques of linear modeling to explore the relationship between two numerical variables. (ILO2)

Course Objectives

Upon satisfactory completion of the course, students will be able to:

1. Distinguish the various ways of organizing, displaying, and measuring data.
2. Derive the numerical relationship that exists between bivariate data sets.
3. Demonstrate an understanding of the theory of probability and proficiency in solving problems of this nature.
4. Compute and interpret expected values and variance, and learn about the binomial distribution for discrete random variables.
5. Compute and interpret expected values and variance, and learn about the normal distribution or continuous random variables.
6. Examine the joint probability structure of two or more random variables and understand the limiting behavior of the sum of independent random variables as the number of the sample becomes larger.
7. Use the various types of distributions that are derived from the normal distribution.
8. Calculate and interpret confidence intervals for a population mean to show how probability connects to this type of statistical inference.
9. Use hypothesis testing as a formal means of distinguishing between probability distributions on the basis of random variables generated from one of the distributions.
10. Compare the means of the data from experiments involving more than two samples, including the single factor analysis of variance (ANOVA).

11. Fit a straight line to the given data in graphical form.
12. Make use of Chi-square distributions to analyze counts.

Textbooks & Other Resources or Links

Mario F. Triola (2013). Elementary Statistics (Second California Edition). Pearson.
ISBN 10: 1-256-93644-8. ISBN 13: 1256989851

Course Requirements and Instructional Methods

- Read the tutorial and sample exercises as needed.
- Complete an individual or team project on statistical methods: Identify, compare, and contrast two articles that include both descriptive and inferential statistics on the same research topic.
- Two (2) hours of independent work done out of class per each hour of lecture or class work, or 3 hours lab, practicum, or the equivalent per unit is expected
- ***All*** homework assignments must be returned or submitted on time. There will be no credit for any late work.

Course Grading Based on Course Objectives

Final grade will be tabulated by the following percentages:

Tests	**40%**
Final	**20%**
Quizzes	**15%**
Homework	**25%**

Attendance

- A student who fails to attend the first meeting of a class or does not complete the first mandatory activity of an online class will be dropped by the instructor as of the first official meeting of that class. Should readmission be desired, the student's status will be the same as that of any other student who desires to add a class. It is the student's responsibility to drop or officially withdraw from the class. See General Catalog for details.
- Regular attendance in all classes is expected of all students. A student whose continuous, unexcused absences exceed the number of hours the class is scheduled to meet per week may be dropped. For online courses, students who fail to complete required activities for two consecutive weeks may be considered to have excessive absences and may be dropped.
- Absences attributed to the representation of the college at officially approved events (conferences, contests, and field trips) will be counted as 'excused' absences.

Classroom Etiquette

- Electronic Devices: Cell phones and electronic devices must be turned off and put away during class, unless otherwise directed by the instructor.
- Calculators: Graphing scientific calculators can be used during class time and any exams. They can be rented at the Math Lab for $10.00. Please remember you pay at the cashier then take your receipt to the Math Lab where they check them out to you.
- Food and Drink are prohibited in all classrooms. Water bottles with lids/caps are the only exception. Additional restrictions will apply in labs. Please comply as directed.

- Disruptive Students: Students who disrupt or interfere with a class may be sent out of the room and told to meet with the Campus Disciplinary Officer before returning to continue with coursework. Disciplinary procedures will be followed as outlined in the General Catalog.
- Children in the classroom: Due to college rules and state laws, no one who is not enrolled in the class may attend, including children.

Academic Honesty

- Plagiarism is taking and presenting as one's own the writings or ideas of others, without citing the source. You should understand the concept of plagiarism and keep it in mind when taking exams and preparing written materials. If you do not understand how to 'cite a source' correctly, you must ask for help.
- Cheating is defined as fraud, deceit, or dishonesty in an academic assignment, or using or attempting to use materials, or assisting others in using materials that are prohibited or inappropriate in the context of the academic assignment in question.

  Anyone caught cheating or will receive a zero (0) on the exam or assignment, and the instructor may report the incident to the Campus Disciplinary Officer, who may place related documentation in a file. Repeated acts of cheating may result in an F in the course and/or disciplinary action. Please refer to the General School Catalog for more information on academic dishonesty or other misconduct. Acts of cheating include, but are not limited to, the following: (a) plagiarism; (b) copying or attempting to copy from others during an examination or on an assignment; (c) communicating test information with another person during an examination; (d) allowing others to do an assignment or portion of an assignment; (e) using a commercial term paper service.

Additional Help – Discretionary Section and Language

- Blackboard support center: http://bbcrm.edusupportcenter.com/ics/support/default.asp?deptID=8543
- Learning Labs: There are several 'labs' on campus to assist you through the use of computers, tutors, or a combination. Please consult your college map for the Math Lab, Reading & Writing Lab, and Study Skills Center (library). Please speak to the instructor about labs unique to your specific program.
- Library Services: There is more to our library than just books. You have access to tutors in the Study Skills Center, study rooms for small groups, and online access to a wealth of resources.

Disabled Student Programs and Services (DSPS)

Any student with a documented disability who may need educational accommodations should notify the instructor or the Disabled Student Programs and Services (DSP&S) office as soon as possible. The DSP&S office is located in Building 2100, telephone 760-355-6313, if you feel you need to be evaluated for educational accommodations.

Student Counseling and Health Services

Students have counseling and health services available, provided by the pre-paid Student Health Fee. We now also have a fulltime mental health counselor. For information see http://www.imperial.edu/students/student-health-center/. The IVC Student Health Center is located in the Health Science building in Room 2109, telephone 760-355-6310.

Student Rights and Responsibilities

Students have the right to experience a positive learning environment and due process. For further information regarding student rights and responsibilities, please refer to the IVC General Catalog available online at http://www.imperial.edu/index.php?option=com_docman&task=doc_download&gid=4516&Itemid=762

Information Literacy

Imperial Valley College is dedicated to helping students skillfully discover, evaluate, and use information from all sources. Students can access tutorials at http://www.imperial.edu/courses-and-programs/divisions/arts-and-letters/library-department/info-lit-tutorials/

Anticipated Class Schedule / Calendar

Date or Week	Chapters	Sections
Week 1 February 14	Syllabus & Introduction Chapter 1	1.2-1.3
Week 2 February 21	Chapters 1 and 2	1.4-2.1 2.2-2.3
Week 3 Feburary 28	Chapters 2 and 3	2.4-2.5 3.1-3.2
Week 4 March 7	Chapter 3	3.3-3.4 Review
Week 5 March 14	 Chapter 4	Test 1 4.2-4.3
Week 6 March 21	Chapters 4 and 5	4.4-4.5 4.6-5.2
Week 7 March 28	Easter Break ??	
Week 8 April 4	Chapter 5	5.-5.4 Test 2
Week 9 April 11	Chapter 6	6.2-6.3 6.4-6.5
Week 10 April 18	Chapter 7	7.2-7.3 7.4
Week 11 April 25		Review Test 3
Week 12 May 2	Chapter 8	8.2-8.3 8.4-8.5
Week 13 May 9	Chapters 8 and 9 May 12 last day to drop with "W" Must have a least a "C"	8.6-9.2 9.3-9.4
Week 14 May 16	Chapter 10	10.2-10.3 10.4-10.5
Week 15 May 23	Chapter 11	11.2-11.3 11.4/ Review
Week 16 May 30	 Review for Final	Test 5 Review
Week 17 June 6	Final June 8th on all chapters.	Final