

**Basic Course Information**

Semester:	<b>Spring 2025</b>	Instructor Name:	<b>Oscar J Hernandez</b>
Course Title & #:	<b>Math 119 Elementary Statistics</b>	Email:	<b>Oscar.hernandez@imperial.edu</b>
CRN #:	<b>20764</b>	Webpage (optional):	<b>None</b>
Classroom:	<b>None-Online TBA</b>	Office #:	<b>2766</b>
Class Dates:	<b>February 10 – June 6</b>	Office Hours (Via Zoom)	<b>MTWTR 1:00 – 2:00 pm Questions will be answered via email and through Zoom appointments</b>
Class Days:	<b>None-Online E-mail me if interested to meet so we can set up a meet time on Zoom</b>	Office Phone #:	<b>760-355-5739 Note: email me for any questions you have</b>
Class Times:	<b>None-Online</b>	Emergency Contact:	<b>Oscar.hernandez@imperial.edu</b>
Units:	<b>4</b>	Class Format:	<b>Fully Online, Asynchronous</b>

**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)

**Course Prerequisite(s) and/or Corequisite(s)**

- a) MATH 091 or MATH 098 with a grade of C or better  
or appropriate placement
- b) RECOMMENDED PREPARATION: ENGL 101 or ENGL 111

**Student Learning Outcomes**

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

Demonstrate problem-solving strategies by identifying an appropriate method to solve a given problem, correctly set up the problem, perform the appropriate analysis and computation, and share their interpretation of the conclusion or the outcome, using correct

grammar or in an oral presentation. This outcome will be assessed through selected exercises on exams throughout the semester. (ILO1, 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

You need to purchase access to Mylab.

1. Use Student Registration Instructions for Canvas in Canvas Module.
2. After registering on MyLab, go to Canvas and select Access Pearson on Canvas Navigation Menu
3. Start working on homework assignments
4. Be careful with the Due Dates on every assignment.
5. You will be able to check your homework grade on Canvas Grades.

No need to purchase physical textbook as it imbedded in the Mylab

Author(s): **Triola, Mario. Elementary Statistics Using Excel 7<sup>th</sup> Edition**

Textbook ISBN-13: 9780136937432

**Registration for Mylab is February 10 – March 15, 2025**

We will be using Mylab component that has e-book, so no need to buy the actual book.

**Mylab access needs to be purchased. Use Access Pearson in the Canvas Navigation Menu.**

We will be using Mylab component for homework assignments.

**Note:** you have 7 days of free access, so my expectation is you will be on Mylab from day 1 of the class. Your success in the class depends on you being ready from day one to study and keep up with the assignments

**Course Requirements and Instructional Methods.**

**Assignments ( Study Guides) are on Canvas, all tests and final exam will be Online (Canvas), homework is done at Mylab, you have to do the Homework assignments only.**

**Check Due Dates**

Out of Class Assignments: The Department of Education policy states that one (1) credit hour is the amount of student work that reasonably approximates not less than one hour of class time and two (2) hours of out-of-class time per week over the span of a semester. WASC (Western Association of Schools and Colleges) has adopted a similar requirement. Since this is a 4 units online class that means approximately 25 hours of studying, working on assignments and contributing to discussions on weekly basis.

Your first assignment “First day of class survey” is due February 14, 2025 and if no assignment is turned in, the student will be dropped per IVC policy for online courses

**PACE:** This course will move rapidly. Because we only meet once a week (discussions), we must cover a lot of material during each class module. It is critical that you stay caught up, avoid falling behind, stay organized, ask questions, and get additional help whenever necessary.

A typical out of class assignment would be as follow:

1. Complete an assigned list of exercises on an online math homework program such as Mylab. Homework for the course and study skills for the Support course
2. Read the tutorial (Power-points) and watch the sample videos (On Canvas).
3. Participate on Discussions by posting your comments and response to two peers



## Course Grading Based on Course Objectives

**Expected response times** for grading are generally 1 week after due dates.

**View grading comments** by clicking on Grades in the course navigation menu and click on [assignment comments \(Links to an external site.\)](#) and [rubric results \(Links to an external site.\)](#).

**Questions about grading comments** should be directed to me via the Canvas Inbox. There is a Comment feature within assignment submissions but those can sometimes get buried, so an Inbox message is best to make sure I see it and you receive a quick response

### Course Grading based on Course objectives.

	<b>Points</b>
Two tests (100 points each) Online Canvas	<b>200</b>
3 Discussions on Canvas 30, 30, and 40 points each.	<b>100</b>
3 Quizzes on Canvas 30, 30, and 40 points each.	<b>100</b>
<b>Homework on Mylab</b>	<b>100</b>
Cumulative Final Exam Chapters 2-11	<b>200</b>
<b>Total Points</b>	<b>700</b>

After all of your scores have been totaled, final grades will be assigned as follow:

90% - 100%	A
80% - 89%	B
70% - 79%	C
60% - 69%	D
Below 60%	F



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## Academic Honesty (Artificial Intelligence – AI)

IVC values critical thinking and communication skills and considers academic integrity essential to learning. Using AI tools as a replacement for your own thinking, writing, or quantitative reasoning goes against both our mission and academic honesty policy and will be considered academic dishonesty, or plagiarism unless you have been instructed to do so by your instructor. In case of any uncertainty regarding the ethical use of AI tools, students are encouraged to reach out to their instructor for clarification.

## Accessibility Statement

Imperial Valley College is committed to providing an accessible learning experience for all students, regardless of course modality. Every effort has been made to ensure that this course complies with all state and federal accessibility regulations, including Section 508 of the Rehabilitation Act, the Americans with Disabilities Act (ADA), and Title 5 of the California Code of Regulations. However, if you encounter any content that is not accessible, please contact your instructor or the area dean for assistance. If you have specific accommodations through **DSPS**, contact them for additional assistance. We are here to support you and ensure that you have equal access to all course materials.

## Course Policies

### Class Rules:

1. No make-up test will be given.
2. No make-up discussion is allowed.
3. It is the student's responsibility to drop or officially withdraw from the class. (See IVC class schedule for dates).
4. It is your responsibility to take notes and be aware of deadlines and due dates

The first day of class is of utmost importance. If, for some reason, you absolutely can't attend, please make sure you e-mail me.

- 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.

### What does it mean to "attend" an online class?

Attendance is critical to student success and for IVC to use federal aid funds. Acceptable indications of attendance are:

- Student submission of an academic assignment
- Student submission of an exam
- Student participation in an instructor-led Zoom conference
- Documented student interaction with class postings, such as an interactive tutorial or computer-assisted instruction via modules
- A posting by the student showing the student's participation in an assignment created by the instructor
- A posting by the student in a discussion forum showing the student's participation in an online discussion about academic matters
- An email from the student or other documentation showing that the student has initiated contact with a faculty member to ask a question about an academic subject studied in the course.

Logging onto Canvas alone is NOT adequate to demonstrate academic attendance by the student.

### Classroom Etiquette

- **Electronic Devices:** Cell phones and electronic devices must be turned off and put away during class, unless otherwise directed by the instructor.
- **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 by the instructor.
- **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, only students enrolled in the class may attend; children are not allowed.

#### *Online Netiquette:*

- **What is netiquette?** Netiquette is internet manners, online etiquette, and digital etiquette all rolled into one word. Basically, netiquette is a set of rules for behaving properly online.
- Students are to comply with the following rules of netiquette: (1) identify yourself, (2) include a subject line, (3) avoid sarcasm, (4) respect others' opinions and privacy, (5) acknowledge and return messages promptly, (6) copy with caution, (7) do not spam or junk mail, (8) be concise, (9) use appropriate language,



- (10) use appropriate emoticons (emotional icons) to help convey meaning, and (11) use appropriate intensifiers to help convey meaning [do not use ALL CAPS or multiple exclamation marks (!!!!)].

### **How am I expected to act in an online “classroom” (especially Zoom)?**

Attending a virtual meeting can be a challenge when there are many students on one conference call. Participating in such meetings may count as class attendance, but disruptive behavior may also result in you not being admitted to future meetings. Follow the tips below for best results:

- **Be RESPECTFUL**
  - Your written, verbal, and non-verbal communications should be respectful and focused on the learning topics of the class.
- **Find a QUIET LOCATION & SILENCE YOUR PHONE (if zooming)**
  - People walking around and pets barking can be a distraction.
- **EAT AT A DIFFERENT TIME.**
  - Crunching food or chugging drinks is distracting for others.
  - Synchronous zoom times are set in advance so reserve meals for outside class meetings.
- **ADJUST YOUR LIGHTING SO THAT OTHERS CAN SEE YOU**
  - It is hard to see you in dim lighting so find a location with light.
  - If your back is to a bright window, you will be what is called “backlit” and not only is it hard on the eyes (glare) but you look like a silhouette.
- **POSITION THE CAMERA SO THAT YOUR FACE AND EYES ARE SHOWING**
  - If you are using the camera, show your face; it helps others see your non-verbal cues.
  - You may be at home, but meeting in pajamas or shirtless is not appropriate so dress suitably. Comb your hair, clean your teeth, fix your clothes, etc. before your meeting time to show self-respect and respect for others.
- **Be READY TO LEARN AND PAY ATTENTION**
  - Catch up on other emails or other work later.
  - If you are Zooming, silence your phone and put it away.
  - If you are in a room with a TV – turn it off.
- **USE YOUR MUTE BUTTON WHEN IN LOUD PLACES OR FOR DISTRACTIONS**
  - Pets barking, children crying, sneezing, coughing, etc. can happen unexpectedly. It’s best if you conference in a private space, but if you can’t find a quiet place, when noises arise **MUTE** your laptop.
- **REMEMBER TO UNMUTE WHEN SPEAKING**
  - Follow your instructor’s directions about using the “**raise hand**” icon or chat function to be recognized and to speak, but make sure you have unmuted your device.
  - Do not speak when someone else is speaking.
- **REMAIN FOCUSED AND PARTICIPATE IN THE MEETING**
  - Especially when the camera is on YOU, we can all see your actions. Engage in the meeting. Look at the camera. Listen to instruction. Answer questions when asked.
  - Do not use the Zoom meeting to meet with your peers or put on a “show” for them.

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- **PAUSE YOUR VIDEO IF MOVING OR DOING SOMETHING DISTRACTING**

Emergencies happen. If you need to leave the room or get up and move about, stop your video.

**Academic Honesty:**

Academic honesty in the advancement of knowledge requires that all students and instructors respect the integrity of one another's work and recognize the important of acknowledging and safeguarding intellectual property.

There are many different forms of academic dishonesty. The following kinds of honesty violations and their definitions are not meant to be exhaustive. Rather, they are intended to serve as examples of unacceptable academic conduct.

- **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.

**How do I show academic honesty and integrity in an online "classroom"?**

- **KEEP YOUR PASSWORDS CONFIDENTIAL.**
  - You have a unique password to access online software like Canvas. Never allow someone else to log-in to your account.
- **COMPLETE YOUR OWN COURSEWORK.**
  - When you register for an online class and log-in to Canvas, you do so with the understanding that you will produce your own work, take your own exams, and will do so without the assistance of others (unless directed by the instructor).

**Examples of Academic Dishonesty that can occur in an online environment:**

- Copying from others on a quiz, test, examination, or assignment;
- Allowing someone else to copy your answers on a quiz, test, exam, or assignment;
- Having someone else take an exam or quiz for you;
- Conferring with others during a test or quiz (if the instructor didn't explicitly say it was a group project, then he/she expects you to do the work without conferring with others);





- Buying or using a term paper or research paper from an internet source or other company or taking any work of another, even with permission, and presenting the work as your own;
- Excessive revising or editing by others that substantially alters your final work;
- Sharing information that allows other students an advantage on an exam (such as telling a peer what to expect on a make-up exam or prepping a student for a test in another section of the same class);
- Taking and using the words, work, or ideas of others and presenting any of these as your own work is plagiarism. This applies to all work generated by another, whether it be oral, written, or artistic work. Plagiarism may either be deliberate or unintentional.

## Financial Aid

Your Grades Matter! In order to continue to receive financial aid, you must meet the Satisfactory Academic Progress (SAP) requirement. Making SAP means that you are maintaining a 2.0 GPA, you have successfully completed 67% of your coursework, and you will graduate on time. If you do not maintain SAP, you may lose your financial aid. If you have questions, please contact financial aid at [finad@imperial.edu](mailto:finad@imperial.edu)

## IVC Student Resources

IVC wants you to be successful in all aspects of your education. For help, resources, services, and an explanation of policies, visit <http://www.imperial.edu/studentresources> or click the heart icon in Canvas.

## Anticipated Class Schedule/Calendar

Tentative Date	Topic	Notes
February 10 -13	Summarizing Data and Graphing Data 2.1 Frequency Distributions 2.2 Histograms 2.3 Graphs that Enlighten and Deceive 2.4 Scatterplots, Correlation, and Regression	Chapter 2
February 18 -24	Statistics for Describing, Exploring and Comparing data 3.1 Measures of Center 3.2 Measures of Variation 3.3 Measures of Relative Standing and Boxplots	Chapter 3
February 25 – March 12	Probability 4.1 Basics Concepts of Probability 4.2 Addition Rule and Multiplication Rule 4.3 Complements and Conditional Probability. 4.4 Counting	Chapter 4
March 13	<b>Discussion Chapters 2, 3, and 4</b>	Check time on Canvas
March 13	<b>Quiz Chapters 2, 3, and 4</b>	Check time on Canvas
March 18-19	<b>Test Chapters 2, 3, and 4</b>	<b>Check time on canvas</b>
March 20 - 27	<b>Discrete Probability Distributions</b> 5.1 Probability Distributions 5.2 Binomial Probability Distributions 5.3 Poisson Probability Distributions	<b>Chapter 5</b>
March 28 – April 4	Normal Probability Distributions 6.1 The Standard Normal Distribution 6.2 Real Applications for Normal Distributions 6.3 Sampling Distributions and Estimators 6.4 The Central Limit Theorem 6.5 Assessing Normality 6.6 Normal as Approximation to Binomial	Chapter 6
April 7 - 18	Estimates and Sample Sizes 7.1 Estimating a Population Proportion 7.2 Estimating a Population Mean 7.3 Estimating a Population Standard Deviation or Variance	Chapter 7
April 21 – 25	<b>Spring Recess</b>	
April 28	<b>Discussion Chapters 5, 6, and 7</b>	Check time on Canvas
April 28	<b>Quiz Chapters 5, 6, and 7</b>	
April 29 - 30	<b>Test Chapters 5, 6, and 7</b>	Check time on Canvas



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May 1 - 12	Hypothesis Testing 8.1 Basic of Hypothesis Testing 8.2 Testing a Claim about a Proportion 8.3 Testing a Claim about a Mean 8.4 Testing a Claim about a Standard Deviation or Variance	Chapter 8
May 13 - 23	Inferences from two samples 9.1 Two Proportions 9.2 Two Means: Independent Samples 9.3 Two Dependent Samples (Matched Pairs) 9.4 Two Variances or Two Standard Deviations	Chapter 9
May 27 - 28	Correlation and Regression 10.1 Correlation 10.2 Regression	Chapter 10
May 29	Goodness of Fit and Contingency Tables 11.1 Goodness of Fit 11.2 Contingency Tables	
May 30	<b>Discussion on Chapters 8, 9, 10, and 11</b>	<b>Check Time on Canvas</b>
May 30	<b>Quiz on Chapters 8, 9, 10, and 11</b>	<b>Check time on Canvas</b>
June 1	<b>Homework Due</b>	<b>Check on Canvas</b>
June 2 -3	<b>Final Exam Cumulative Chapters 2 -11</b>	<b>Check Time on Canvas</b>

**\*\*\*Subject to change without prior notice\*\*\***