



Basic Course Information

Semester:	Spring 2026	Instructor Name:	Mr. Voldman
Course Title & #:	Math STAT C1000- Elementary Statistics	Email:	alex.voldman@imperial.edu
CRN #:	21299	Webpage (optional):	Refer to Canvas
Classroom:	Online	Office #:	2764
Class Dates:	02/12/26-06/013/26	Office Hours:	MW 10-11am zoom online, TTH 10:05-11:05 on campus
Class Days:	N/A	Office Phone #:	760-3556299(only via e-mail)
Class Times:	N/A	Emergency Contact:	760-355-6155, 760-355-6201 Division Secretary
Units:	4.625	Class Format/Modality:	Online

Course Description

This course is an introduction to statistical thinking and processes, including methods and concepts for discovery and decision-making using data. Topics include descriptive statistics; probability and sampling distributions; statistical inference; correlation and linear regression; analysis of variance, chi-squared, and t-tests; and application of technology for statistical analysis including the interpretation of the relevance of the statistical findings. Students apply methods and processes to applications using data from a broad range of disciplines. (Formerly MATH 119)(C-ID: MATH 110) (CSU, UC credit limited. See a counselor.)

Additional Description Information:

The use of probability techniques, hypothesis testing, and predictive techniques to facilitate decision-making. Probability Theory, such as counting principles, conditional probability and the Poisson distribution. Applications using data from disciplines including business, social sciences, psychology, life science, health science, and education.

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

Placement as determined by the college's multiple measures assessment process or completion of a course taught at or above the level of intermediate algebra.



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. 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.

Course Objectives

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

1. Assess how data were collected and recognize how data collection affects what conclusions can be drawn from the data.
2. Identify appropriate graphs and summary statistics for variables and relationships between them and correctly interpret information from graphs and summary statistics.
3. Describe and apply probability concepts and distributions.
4. Demonstrate an understanding of, and ability to use, basic ideas of statistical processes, including hypothesis tests and confidence interval estimation.
5. Identify appropriate statistical techniques and use technology-based statistical analysis to describe, interpret, and communicate results.
6. Evaluate ethical issues in statistical practice.
7. **ADDITIONAL Objective Information:**
8. Distinguish between different scales of measurement and their implications.
9. Calculate measures of central tendency and variation for a given data set.
10. Determine and interpret levels of statistical significance including p-values.
11. Identify the basic concept of hypothesis testing including Type I and II errors.
12. Formulate hypothesis tests involving samples from one and two populations.
13. Use linear regression and ANOVA analysis for estimation and inference and interpret the associated statistics.
14. Make use of Chi-square distributions to analyze counts.
15. Use appropriate statistical techniques to analyze and interpret applications based on data from disciplines including business, social sciences, psychology, life science, health science, and education.
16. Apply concepts of probability theory, such as counting principles, conditional probability and the Poisson distribution.

Textbooks & Other Resources or Links

Author(s): Triola, Mario. Elementary Statistics Using Excel 7th Edition Textbook ISBN: 9780136961888

Software: Primarily Microsoft Excel

Calculator: A calculator, like a TI-30 is recommended, or the graphing TI-83 or TI-84, and there are also various apps that you can use instead.



Course Requirements and Instructional Methods

Homework

Homework is done using Pearson MyMathLab Statistics. You need to purchase 18 weeks Pearson MyMathLab access code. Do not buy physical textbook as the textbook(e-book) is embedded in the MyMathLab. MyMathLab Statistics Course ID is **voldman59860**.

Discussions

You will need to log into Canvas; each module has a discussion activity. Participation in the discussion in Canvas is mandatory and will be assessed. Students are expected to be ready for all class discussions. You need to be engaged with your fellow classmates, learning together.

Projects/Research Projects

There will be 10 projects that will involve the use of technology-Microsoft Excel. You will be analyzing and interpreting data. For a research project, you will conduct a survey, collect, analyze, and interpret data. Projects will be provided through Canvas.

Quizzes

Each module in Canvas has a quiz. Purpose: To check your learning in class and to evaluate your understanding of the material covered in the course.

Exams

Purpose: To assess your learning in class and to evaluate your understanding of the material covered in the course.

There will be three exams and a final to be taken on **Canvas**. Please see the tentative schedule (Syllabus or Canvas) for the dates. Expect a mix of question types: true/false, multiple choice, and free response. There will be no make-up exams. If you miss one exam, the final exam score will be used in its place.

Final Exam

Final: Expect a mix of question types: true/false, multiple choice, and free response. The final exam is mandatory for all students.

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 has adopted a similar requirement.

Course Grading Based on Course Objectives

Grade Distribution

Homework	Canvas Discussions	Quizzes	Projects	Exams	Final
10 homework activities 40 points each	10 canvas discussions @ 10 points	11 quizzes 10 points each	10 projects 20 points each	3 exams @ 100 points each	Final 200 points

Canvas Discussions	10%
Homework	10%
Quizzes	10%
Projects	10%
Exams	30%
Final	30%

Grading Scale:

A (90-100%)	B (80-89%)	C (70-79%)	D (60-69%)	F (0-59%)
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IMPERIAL VALLEY COLLEGE

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 instructors for clarification.

Allowable Uses of AI:

You are encouraged to use AI tools for the following scholarly purposes:

- You may use AI for concept clarification, breaking down textbook definition into simpler language
- You may use AI to help search academic databases or find references for your projects. AI-generated summaries must be cited properly.
- Interactive Study Tools: AI can be used to aid your learning and study processes, for instance, creating study guides before exams

Prohibited Uses of AI:

To maintain academic honesty, the following uses of AI are not remitted:

- Generating answers to homework problems
- Using AI to complete exams or quizzes.
- Submitting AI-generated essays, projects, or assignments as your own work.

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

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-Orientation quiz before the deadline will be dropped by the instructor. It is the student's responsibility to drop or officially withdraw from the class. See IVC General Catalog for details.

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, 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 plagiarizing 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 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.

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

Other Course Information

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. When campus is open, the DSP&S office is in Building 2100, telephone 760-355-6313. Please contact them if you feel you need to be evaluated for educational accommodation.

Financial Aid

Your Grades Matter! 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 finaid@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

Date or Week	Activity, Assignment, and /or Topic	Assignment Dates
Week 1	Introduction Getting Started-Module 0, Sampling and Data, Module 1	Orientation Syllabus Quiz Due 9am, 08/17
Week 1	Sampling and Data, Module 1	Discussion 1, Project 1, Quiz 1, and Homework 1
Week 2	Measures of Central Tendency and Variation, Module 2	Discussion 2, Project 2, Quiz 2, and Homework 2
Week 3	Exam 1	Exam 1
Week 4	Probability Concepts, Module 3	Discussion 3, Project 3, Quiz 3, and Homework 3
Weeks 5-6	Probability Distributions, Module 4	Discussion 4, Project 4, Quiz 4, and Homework 4
Week 7	Exam 2	Exam 2
Week 8	Estimating Parameters, Confidence Intervals, Module 5	Discussion 5, Project 5, Quiz 5, and Homework 5
Week 9	Basic Concepts of Hypothesis Testing for One Sample, Module 6	Discussion 6, Project 3, Quiz 6, and Homework 6
Week 10	Hypothesis Testing for One Sample, Module 7	Discussion 7, Project 7, Quiz 7, and Homework 7
Weeks 11-12	Hypothesis Testing for Two Sample, Module 8	Discussion 8, Project 8, Quiz 8, and Homework 8
Week 13	Exam 3	Exam 3
Week 14	Correlation and Regression, Module 9	Discussion 9, Project 9, Quiz 9, and Homework 9
Week 15	Goodness-of-Fit and Analysis of Variance, Module 10	Discussion 10, Project 10, Quiz 10, and Homework 10
Week 16	Final Exam	Final Exam

THE ORIENTATION QUIZ IS DUE BY 9AM ON Saturday 2/21/2026. IF THE SYLLABUS QUIZ IS NOT COMPLETED BY THEN, YOU WILL BE DROPPED FROM THE CLASS.

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