

Basic Course Information

Semester:	Fall 2025	Instructor Name:	Juan Andres Noguez
Course Title & #:	Stat C1000: Intro to Statistics	Email:	juan.noguez@imperial.edu
CRN #:	11334	Webpage (optional):	N/A
Classroom:	2722	Office #:	2724
Class Dates:	8/11-12/06	Office Hours:	M/W 3pm-3:30pm, Thu 4pm-4:30pm, Fridays 1pm-3:30pm
Class Days:	Tue, Thu	Office Phone #:	TBA
Class Times:	1:00pm-3:30pm	Emergency Contact:	Silvia Murray (silvia.murray@imperial.edu)
Units:	4	Class Format/Modality:	In Person

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.

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 among 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

Triola, Mario. 2019. *Elementary Statistics using excel*. 6th Pearson. ISBN: 978-0-13-450897-9.

MyMathLab will be utilized to assign homework, so it is required that students purchase access to it.

A scientific calculator will be needed for some assignments.

Course Requirements and Instructional Methods

The goal of this course is for you to gain the necessary skills and knowledge to do well, and improve your mathematical abilities, so you are able to succeed in future courses. My responsibility is to help you in any way I can, to accomplish these goals, however it is your responsibility to be committed to your own success and keep up with the pace of the class. To do so you need to complete assignments on time and please ask questions when you have them.

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. This means you should plan on 4 hours of class time, plus an additional 8 hours each week for working outside of class. This means you should spend at least 12 hours working on math each week.

Course Rules:

- 1) Late work is not accepted. If you are going to be gone, contact me before the absence to make arrangements.
- 2) There are no make-up tests or quizzes.
- 3) It is your responsibility to drop or withdraw the class. Failure to do so will result in a regular grade (most probably an F).
- 4) Regular attendance is expected. The instructor can drop you from the class if you have more than the allowed number of absences.
- 5) You need to ask questions whenever you have them. If not in class, please come to my office during office hours, email me, go to tutoring, google it, YouTube it, etc.
- 6) It is your responsibility to make up the work you missed if you are absent. I highly recommend finding someone else to copy notes and material from that were covered in your absence.

Course Grading Based on Course Objectives

There will be 1 midterm worth 25% of your grade. There are no make-ups for the midterm. If midterm is missed, then you will receive a 0% and that 0% will be replaced with the final exam percentage score. The final exam is comprehensive and is worth 25% of your grade. There is no make-up for the final exam, if the final exam is missed, then you will receive a zero. Plan to be here for the exam dates in the schedule but also note that those dates can change so make sure you are attending class, paying attention and staying up to date.

The combined total of your homework is worth 25% of your grade. The combined total of your quizzes/projects is worth 25% of your grade. There are no make-up quizzes.

All Grades will be shown on Canvas. Your grade will be weighted as summarized below:

Homework 25% of grade

Updated 11/2024



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Quizzes/Projects 25% of grade

Midterm 25 % of grade

Final 25% of grade

Final class grade is based on the following guidelines:

Percent ≥ 89.5	A
$79.5 \leq \text{Percent} < 89.5$	B
$69.5 \leq \text{Percent} < 79.5$	C
$59.5 \leq \text{Percent} < 69.5$	D
Percent < 59.5	F

All students are graded by the same standards and grades are nonnegotiable.

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.

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

[Describe other policies such as attendance, academic honesty, netiquette, expected classroom behavior, etc.]

Other Course Information

Classroom Policy

- Arrive to class on time.
- Academic integrity is expected; any cheating will result in a 0 on that particular assignment and notification of academic dishonesty to the college.
- Be civil, respectful, and cordial to fellow classmates and instructor. Inappropriate behavior will be documented, and student will be subjected to disciplinary action.
- Any student engaging in disruptive behavior will be subject to disciplinary action. Disruptive behavior consists of (but it's not limited to) behavior that interferes with the learning of fellow classmates or distractive behavior to the instructor.
- Cellphones must be either turned off or on silent mode during class time. If you need to take a call, then you must leave the classroom without disrupting others (do not answer the phone inside the classroom!).



- Cell phones, computers, tablets, any other electronic device or any additional materials are not allowed during quizzes and exams. Using such tools will result in a grade of 0 for said quiz or exam.

Attendance Policy

- Students who miss the first day of class will be dropped by the instructor.
- Regular attendance is expected of all students. Students with unexcused absences exceeding the number of hours the class is scheduled to meet per week may be dropped.
- If you miss a class, you are expected to get caught up with the material you missed.

Email Policy

- You are expected to check Canvas Inbox daily for updates regarding our class. I will be communicating with the class through Canvas. You are also expected to check daily IVC email.
- If you need to contact me, I strongly recommend you do so through Canvas Inbox or IVC email. When emailing me, be sure to email from your IVC email, I will not respond to emails from personal email accounts such as gmail.com or outlook.com.

Math Help

- My office hours are MW 3pm-3:30pm, Thursdays 4pm-4:30pm, and Fridays 1pm-3:30pm in room 2724. Please feel free to stop by if you have any questions or need help with homework.

IVC also offers tutoring services, I strongly recommend using such services as well.

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 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
Week 1	Syllabus & Introduction. Sections: 1.1, 1.2,
Week 2	Sections: 1.3, 1.4, 2.1, 2.2
Week 3	Sections: 2.3, 2.4, 3.1, 3.2
Week 4	Sections: 3.3, 4.1, 4.2, 4.3
Week 5	Sections: 4.4, 4.5, 5.1, 5.2
Week 6	Sections: 5.3, 6.1, 6.2
Week 7	Sections: 6.3, 6.4, 6.5
Week 8	Review Midterm (October 2nd)(CH 1-5, 6.1-6.5)
Week 9	Sections: 6.6, 7.1, 7.2
Week 10	Sections: 7.3, 7.4, 8.1
Week 11	Sections: 8.2, 8.3, 8.4
Week 12	Sections: 8.5, 9.1, 9.2
Week 13	Sections: 9.3, 9.4, 10.1
Week 14	Sections: 10.2, 10.3, 11.1
Week 15	Sections: 11.2, 12.1, 12.2
Thanksgiving Break	Thanksgiving Break (No classes this week)
Week 16	Review Tuesday, Final Exam Thursday December 4 th

Subject to change without prior notice

