

Basic Course Information

Semester:	Spring 2026	Instructor Name:	Diana Roman
Course Title & #:	STAT C1000: Introduction to Statistics	Email:	diana.roman@imperial.edu
CRN #:	21287	Webpage (optional):	Canvas
Classroom:	402	Office #:	2763
Class Dates:	February 17-June 12, 2026	Office Hours:	In office 2763: M/W 4:00pm-5:30pm T/TH 3:40pm-4:10pm
Class Days:	M/W	Office Phone #:	(760)355-5755
Class Times:	6:00PM-8:30PM	Emergency Contact:	Division Secretary: Silvia Murray (silvia.murray@imperial.edu)
Units:	4	Class Format/Modality:	Face-to-face (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. (Formerly MATH 119)

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

PREREQUISITES: - 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. Distinguish among different scales of measurement and their implications.
8. Calculate measures of central tendency and variation for a given data set.
9. Determine and interpret levels of statistical significance including p-values.
10. Identify the basic concept of hypothesis testing including Type I and II errors.
11. Formulate hypothesis tests involving samples from one and two populations.
12. Use linear regression and ANOVA analysis for estimation and inference, and interpret the associated statistics.
13. Make use of Chi-square distributions to analyze counts.
14. 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.
15. Apply concepts of probability theory, such as counting principles, conditional probability and the Poisson distribution.

Textbooks & Other Resources or Links

MyMathLab Access Code (REQUIRED)

You will need to purchase a MyMathLab 18-week access code to access and complete the homework assignments. Access codes sometimes are included with new, sealed physical copies of the textbook, or you can purchase an access code online through the IVC bookstore or through MyMathLab directly. Please double check that you are purchasing an ACCESS CODE and not just an e-book. Standard e-books typically do not include MyMathLab access, but purchasing an access code will give you access to the e-book as well. Please use your IVC email when registering for MyMathLab. You should be purchasing the single-term access code titled, "MyLab Math with eTextbook." The payment should be a one-time payment. That option will give you access to the electronic textbook and all the chapter homeworks for the entirety of the semester.

Textbook (OPTIONAL, but included electronically with MyMathLab Access Code)

With your MyMathLab access code, you will have full access to the e-book for the class:
Triola, Mario. *Elementary Statistics using excel*. 7th Pearson. ISBN: 9780136937432

Microsoft Excel (REQUIRED)

Microsoft Excel will be required for some projects and homework assignments. If you do not have Excel installed on your computer/laptop already, you can gain access to Excel in the following ways:

- By using Excel through IVC's computers inside the library (building 1500)
- By downloading Excel using your IVC student email. If you need assistance doing this, refer to this video:
[Instructions to Access Excel Using IVC Student Account](#)

*You will need to use Excel on a computer or laptop (not on a tablet, smartphone, etc.).

Scientific Calculator (OPTIONAL)

A scientific calculator is optional. Scientific calculators include buttons for "log" and "ln". Graphing calculators, phone, or laptop calculators are not allowed. If calculators are allowed on exams/quizzes, they may not be shared with any other student.



Course Requirements and Instructional Methods

Lecture

Our class time will consist of a combination of lecture, individual practice, and group work. Participation and practice is key to understanding the material. You are encouraged to ask questions during class. If you miss a day of class, it is your responsibility to obtain the notes for that day and review the material that was covered. You can find Powerpoints for each section of our textbook under the “Access Pearson” tab on Canvas.

Homework

Homework will be assigned and completed through MyMathLab. In order to access and complete the homework, you must make a MyMathLab account and enroll using the “Access Pearson” tab on Canvas.

There will be MyMathLab homework assignments for each chapter. I suggest you work on each chapter regularly after each section is covered in lecture. You will have unlimited attempts for each homework problem. Homework for each chapter will be due the Sunday after we finish covering that chapter in class. You can refer to MyMathLab for exact due dates. All assignments are to be completed by the due date. It is the student’s responsibility to check MyMathLab regularly and stay on top of all due dates. You may continue working on homework assignments after the due date, but any problems completed after the due date will be awarded 50% credit. Since homework can be completed for partial credit after the due date has passed, no homework due date extensions will be given.

Projects

There will be various projects throughout the semester. The instructions for each project will be provided during class and on Canvas. More information regarding projects will be provided once they are assigned. All projects must be submitted by the deadline. One lowest project grade will be dropped. For this reason, no late projects will be accepted and no due date extensions will be given. Projects will only be accepted in the specific file formats described on the project instructions on Canvas. It is the student’s responsibility to ensure that they submit their project in the correct file format by the deadline. Projects not submitted by the deadline in the correct file format will not be graded.

Quizzes

Quizzes will be given during class (with or without prior notice). One lowest quiz score will be dropped. If you are absent during a day where there was a quiz, that will be considered your lowest score, and that quiz will be dropped from your grade. No make-up quizzes will be offered. Notes and scientific calculators will be allowed during some quizzes, but not all. Phones (including phone calculators) are not allowed during quizzes. I recommend that you study and familiarize yourself with the material regularly. The best way to prepare for quizzes is to attend lectures and practice the assigned MyMathLab homework problems.

Exams

There will be 3 exams and a final. The final exam is cumulative, so it will cover all of the material from the semester. Please be on time to exam days—you will not be given additional time to complete exams if you arrive late. Once you begin an exam, you are expected to stay in the classroom until your exam is completed. Leaving the room during an exam without prior authorization by the instructor will result in a score of 0 for that exam. All exam dates are listed on the Course Calendar at the end of this document, so please plan accordingly. For exams 1-3, if you have a prior commitment that interferes with an exam date and you are unable to complete an exam during the scheduled exam



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date, you can use your Final Exam score as a replacement score for one exam that you missed. If you did not miss any of exams 1-3, then your Final Exam score will replace your lowest exam score from exams 1-3. No one will be allowed to take an exam after the rest of the class has already taken it. There is no make-up for the final exam. All exam dates are listed in the Course Calendar—please plan accordingly!

Course Grading Based on Course Objectives

All grades will be shown on Canvas. Your grade will be weighted with the guidelines shown below.

Homework	20% of grade
In-Class Quizzes	10% of grade
Projects	20% of grade
Exams	30% of grade
Final	20% of grade

Final class grade is based on the following guidelines:

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

Grades earned according to the point scale above will be the final grade you receive for the class. 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

Classroom Behavior

Behavior should not interfere with the learning of others. Civil and respectful conduct towards fellow students and towards the instructor is expected. Inappropriate behavior will be documented and may be subjected to disciplinary action. I highly encourage you to participate during class and take notes.

Cell phone Policy

Cell phone use (including using headphones, texting and/or listening to music, videos, etc.) is not allowed and cell phones should be turned off or on silent mode during class time. If you need to take an important call during class, please leave the classroom without disrupting others. Cell phone use during quizzes and exams is prohibited and violations to this policy will be considered academic dishonesty. Using a cell phone or any other electronic device or any additional unapproved materials during quizzes or exams will result in a grade of 0 for that quiz/exam.

Attendance and Email Communication

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. Regular attendance in all classes is expected of all students. A student who has 3 or more consecutive absences may be dropped from the course without prior notice. However, you should never assume that you have been dropped from a class if you stop attending. As stated in the IVC catalog, "Be aware, it is always the student's responsibility to withdraw officially from classes. In no case should students presume they have been dropped by the instructor." If you happen to miss any class lectures, it is your responsibility to get caught up with the material you missed.

All communications should be done through IVC email or Canvas. No personal emails should be used and inquiries made using personal emails will not receive a response. You are expected to check your IVC email and Canvas regularly, several times a week. Announcements will be sent through Canvas. Please check Canvas several times a week!!

Open Door Policy

Please feel free to contact me or attend office hours if you have any questions, concerns, or would like additional help. I have high expectations for all of you and believe you can all succeed in this class if you put in the effort.

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.



The Learning Services Department's tutoring center offers free tutoring in-person in building 1500 (library) and online via Zoom. Contact the tutoring center or visit [the Learning Support Services website](#) for more information.

The MESA Center also offers free tutoring for some math courses. Contact MESA or visit [the MESA Center's website](#) for more information.

Visit [the Student Support page](#) for more information regarding additional student resources, including:

- Disability Support Programs & Services (Refer to them if accommodations are needed)
- Counseling & Transferring Services
- Student Health Services
- Food & Housing Services
- Career Services
- Undocumented Student Resources
- Education Technology
- Technology Support Services
- Library & Tutoring Services
- Military & Veteran Success Center
- MESA Center
- EOPS/CARE/NextUp Services

Anticipated Class Schedule/Calendar

Course Title & #:		STAT C1000: Introduction to Statistics
CRN #:		21287
Class Days:		M/W
Date or Week	Activity, Assignment, and/or Topic	
Week 1 Feb. 17-21	Syllabus & Introduction Chapter 1	
Week 2 Feb. 22-28	Chapter 1	
Week 3 March 1-7	Chapter 2 Chapter 3	
Week 4 March 8-14	Chapter 3	
Week 5 March 15-21	Review Exam 1 (Wednesday, March 18)	
Week 6 March 22-28	Chapter 4	
Week 7 March 29-April 4	Chapter 4 Chapter 5	
April 5-11	Spring Recess- NO CLASS (Campus Closed)	
Week 8 April 12-18	Chapter 5 Chapter 6	
Week 9 April 19-25	Chapter 6 Chapter 7	
Week 10 April 26-May 2	Chapter 7	
Week 11 May 3-9	Review Exam 2 (Wednesday, May 6)	
Week 12 May 10-16	Chapter 8	
Week 13 May 17-23	Chapter 8 Chapter 9	
Week 14 May 24-30 May 25-Memorial Day (Campus Closed)	Chapter 10-12	
Week 15 May 31-June 6	Catch-up Day Exam 3 (Wednesday, June 3)	
Week 16 June 7-12	Review Final Exam (Wednesday, June 10) MyMathLab closes on June 10th at 11:59pm	

Subject to change without prior notice