IMPERIAL VALLEY COLLEGE

Basic Course Information

Semester:	Spring 2026	Instructor Name:	Allyn Leon
Course Title & #:	Math 122, Finite Mathematics	Email:	allyn.leon@imperial.edu
		Webpages (optional):	Canvas Login
CRN #:	21105	Office #:	2761
Classroom:	2725	Student Hours (Zoom):	Mon: 12:00 pm to 1:00 pm
		Student Hours (2761):	Tu/Wed/Th: 12:00 pm to 1:00 pm
Class Dates:	2/17/2026 - 6/12/2026	Office Phone #:	760-355-6523
Class Days:	Tuesday and Thursday	Emergency Contact:	Email me or call/text office phone
Class Times:	1:00 pm - 2:25 pm	Instructor Name:	Allyn Leon
Units:	3	Email:	allyn.leon@imperial.edu

Course Description

Finite mathematics is a course designed to introduce interesting, relevant, and realistic applications for a variety of fields including business, economics, and social sciences. This course incorporates the use of technology to allow increased visualization and a better understanding of concepts. It satisfies the mathematics general education requirement and is transferable. It is an excellent course for those students who will not need any other mathematics classes for their degree. Topics included in this course are systems of linear inequalities, matrices, linear programming, mathematics of finance, sets and Venn diagrams, combinatorics, and an introduction to probability and statistics. (C-ID: MATH 130) (CSU/UC)

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

Successful completion of Intermediate Algebra or appropriate placement as defined by AB705.

Student Learning Outcomes

By the end of this course, given a problem or a set of problems, the student will demonstrate problem solving strategies by identifying an appropriate method to solve a 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.

Other Course Information

Last day to add the class: Saturday 2/28/2026
Last day to withdraw from the class with a “W”: Saturday 5/16/2026

Textbooks & Other Resources or Links

Textbook: Applied Finite Mathematics by Sekhon and Bloom, available for free online. There will also be a PDF download in Canvas.

Calculator: A basic calculator, like a TI-30 (costs around $10) is recommended, or you can go with a graphing calculator, like the TI-83 or TI-84, and there are also **various apps** that you can use instead; it really depends on what other math or science classes you plan on taking later on. You NEED a calculator of some sort to do the work on the tests.

Course Objectives

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

1. Apply linear and exponential graphs and functions.
2. Write a system of linear equations to solve applied problems.
3. Solve a system of linear equations using Gauss-Jordan elimination and interpret the result.
4. Find the inverse of a square matrix and use the inverse to solve a system of linear equations.
5. Solve linear programming problems in at least three variables.
6. Find unions, intersections and complements of sets and use Venn diagrams to solve problems.
7. Apply basic combinatorial principles to enumeration problems.
8. Determine the probability of a specified event.
9. Find the conditional probability of an event.
10. Demonstrate an understanding of introductory descriptive statistics.
11. Solve applied problems in finance including simple and compound interest, future and present value, annuities, sinking funds, and amortization.

Course Requirements and Instructional Methods

Quizzes: There will be 12 in-class Quizzes taken, usually on Thursdays at the end of class, almost every week. We will take 12 quizzes and count the top 10, with each quiz being worth 10 points.

Project: There will be 1 project towards the end of the semester that will be an application of topics learned throughout the term. More information will be provided during class and through Canvas. This project will be worth 100 points.

Exams: There will be **three exams** during the semester. The exams are your chance to show you have learned the skills that your grade will be based on. These exams will be taken in class and will cover material as outlined on the syllabus.

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 Policies

- 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.

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Course Grading Based on Course Objectives

Your grade will be calculated based on the following items:

10 Quizzes (take 12, top 10 count) @ 10 points each	100 points	~20%
1 Project @ 100 points each	100 points	~20%
3 Exams @ 100 points each	300 points	~60%
Total	***500 points***	***100%***

Your final grade will be based on the following points and percentages:

90% to 100%	450-500 points	A
80% to 89%	400-449 points	B
70% to 79%	350-399 points	C
60% to 69%	300-349 points	D
Below 60%	Below 300 points	F

The **Canvas Gradebook** is where you want to go to check your grades and progress. You can do this at any time to get an idea of how you are doing in the class.

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.

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.

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Anticipated Class Schedule/Calendar

Date or Week	Activity/Topic	Assignment
Week 1 Feb 16 - Feb 22	Orientation/Syllabus Quiz/Introduction to the Class	Quiz 0 (Syllabus)
Week 2 Feb 23 - Mar 1	Linear Equations	Quiz 1
Week 3 Mar 2 - Mar 8	Systems of Equations	Quiz 2
Week 4 Mar 9 - Mar 15	Matrices	Quiz 3
Week 5 Mar 16 - Mar 22	Linear Programming, Part 1	Quiz 4
Week 6 Mar 23 - Mar 29	Linear Programming, Part 2	Quiz 5
Week 7 Mar 30 - Apr 5	Review for Exam 1 Exam 1	Exam 1
Week 8 Apr 6 - Apr 12	**Spring Break**	**Spring Break**
Week 9 Apr 13 - Apr 19	Exponential and Logarithmic Functions	Quiz 6
Week 10 Apr 20 - Apr 26	Mathematics of Finance	Quiz 7
Week 11 Apr 27 - May 3	Sets and Counting	Quiz 8
Week 12 May 4 - May 10	Review for Exam 2 Exam 2	Exam 2
Week 13 May 11 - May 17	Probability, Part 1	Quiz 9
Week 14 May 18 - May 24	Probability, Part 2	Quiz 10
Week 15 May 25 - May 31	Descriptive Statistics	Quiz 11
Week 16 Jun 1- Jun 7	Project Review for Final / Exam 3	Project
Week 17 Jun 8 - Jun 12	Final / Exam 3	Final / Exam 3