IMPERIAL VALLEY COLLEGE

## Basic Course Information

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|---|---|---|---|
| Semester: | **Spring 2025** | Instructor Name: | **Jill Nelipovich** |
| Course Title & #: | **Math 150 – College Algebra** | Email: | **Jill.nelipovich@imperial.edu** |
| CRN #: | **20062** | Webpage (optional): | **CANVAS** |
| Classroom: | **204** | Office #: | **2760** |
| Class Dates: | **02/10/25 – 06/06/25** | Student Hours: | **M/W:   1:00 – 1:30 p.m.**<br>**T/ TR:   9:00 – 9:30 a.m.**<br>**T/ TR: 11:20 – 12:50 p.m.**<br>**\*\*And by appt.** |
| Class Days: | **MW** | Office Phone #: | **760-355-6297** |
| Class Times: | 10:15 – 12:45 | Emergency Contact: | **Silvia Murray**<br>**760-355-6201** |
| Units: | 4 | Class Format/Modality: | In person |

## Course Description

College level course in algebra: polynomial, rational, radical, absolute value, exponential and logarithmic functions; systems of equations, theory of polynomial equations, matrix algebra, linear programming, and analytic geometry. (CSU, UC credit limited. See a counselor.) Course Prerequisite(s) and/or Corequisite(s)

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

Appropriate placement as defined by AB705 or successful completion 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:**

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.

## Textbooks & Other Resources or Links

CALCULATOR: A scientific calculator is required.
Textbook: College Algebra 7th Edition; Blitzer. Pearson ISBN: 9780136970613

## Course Objectives

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

1. Perform operations on matrices and solve linear systems of equations using matrix algebra.
2. Use Linear Programming in common business and science applications.
3. Analyze and investigate properties of functions.
4. Synthesize results from the graph and/or equations of functions.
5. Apply transformations to the graphs of functions.
6. Recognize the relationship between functions and their inverses graphically and algebraically.
7. Solve and apply rational, linear, polynomial, radical, absolute value, exponential, and logarithmic equations and solve linear, non-linear, and absolute value and equality.
8. Solve systems of equations and inequalities.
9. Apply techniques for finding zeros of polynomials and roots of equations.
10. Apply functions and other algebraic techniques to model real world B-STEM applications.
11. Analyze conics algebraically and graphically and use formulas to find sums of finite and infinite series.

## Textbooks & Other Resources or Links

CALCULATOR: A scientific calculator is required.

Textbook: (not required) College Algebra 7th Edition; Blitzer. Pearson ISBN: 9780136970613

## Course Requirements and Instructional Methods

# Homework

Homework will be assigned at each class meeting. They should be on stapled arranged in the correct order. Please write your name and section number on the top right corner. It is your responsibility to check the homework assignment even if you are absent.

**Homework will be due by the date of each test.**

Or

You can do homework using MyMathLab (registration instructions at the last page).

The Course ID is hu40878

# Quiz/Pop-quiz/Group Work

A quiz or group work may be given at any time during any class period. It may not be announced. The number of quizzes or group work in the semester will be instructor's discretion. The purpose is to provide a feedback on the learning outcome. The lowest scores will be dropped.

# Tests

There will be three tests.  The purpose of these tests is to check your understanding of the concepts covered in the course. Most of the questions on these tests will require showing a significant amount of work. A correct answer with insufficient work will receive partial credit or no credit.

 *Bring your own papers and pens/pencils on test days.

# Final Exam

At the end of the semester, a COMPREHENSIVE/CUMULATIVE Final Exam will be given. If you miss the final, it will be recorded as a zero.

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

### Grading Policy

| | |
|---|---|
| Quizzes /Group Work | 10% |
| Homework | 10% |
| Tests | 60% |
| Final Exam | 20% |
| | |
| Total | 100% |

### Grading Scale for determining the final grade

A: 90%-100%
B: 80%-89%
C: 70%-79%
D: 60%-69%
F: 0%-59%

## 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.

## Course Policies

Attendance and drop Policy You must attend the first day of class or you will be dropped from the course as a 'No Show.' 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 whose continuous, unexcused absences exceed the number of hours the class is scheduled to meet per week may be dropped. It is the student's responsibility to drop or officially withdraw from the class

## 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.

Updated 6/2023

## Anticipated Class Schedule/Calendar

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

| Date or Week | Activity, Assignment, and/or Topic |
|---|---|
| 2/10/25 | Introduction, P.1, P.2 |
| 2/12/25 | Chapter P.3, P.4, P.5 |
| 2/17/25 | No class |
| 2/19/25 | Chapter P.6, P.7, Chapter 1.1 |
| 2/24/25 | Chapter 1.2, 1.3 |
| 2/26/25 | Chapter 1.4, 1.5 |
| 3/03/25 | Chapter 1.6, 1.7 |
| 3/05/25 | Chapter 2.1, 2.2, 2.3 |
| 3/10/25 | Chapter 2.3, 2.4, 2.5 |
| 3/12/25 | Catch up Review |
| 3/17/25 | Test 1 |
| 3/19/25 | Chapter 2.6, 2.7 |
| 3/24/25 | Chapter 2.8, 3.1 |
| 3/26/25 | Chapter 3.2, 3.3 |
| 3/31/25 | Chapter 3.4, 3.5 |
| 4/02/25 | Chapter 3.6, 3.7 |
| 4/07/25 | Review |
| 4/09/25 | Test 2 |
| 4/14/25 | Chapter 4.1, 4.2 |
| 4/16/25 | Chapter 4.3, 4.4 |
| 4/21/25 | Spring Recess |
| 4/23/25 | Spring Recess |
| 4/28/25 | Chapter 4.5, 5.1 |
| 4/30/25 | Chapter 5.2, 5.4 |
| 5/05/25 | Chapter 5.5, 5.6 |
| 5/07/25 | Chapter 6.1, 6.2 |
| 5/12/25 | Chapter 7.1, 7.2 |
| 5/14/25 | Chapter 7.3, Review |
| 5/19/25 | Test 3 |
| 5/21/25 | Chapter 8.1, 8.2 |
| 5/26/25 | No Class |
| 5/28/25 | Chapter 8.3, Review |
| 6/02/25 | |
| 6/04/25 | Final Exam |