## Basic Course Information

| | | | |
|---|---|---|---|
| Semester: | **Fall 2023** | Instructor Name: | **Duarte** |
| Course Title & #: | **Math 150** | Email: | **carlos.duarte@imperial.edu** |
| CRN #: | **10059** | Webpage (optional): | **NA** |
| Classroom: | **Zoom** | Office #: | **NA** |
| Class Dates: | **August 14 – December 9** | Office Hours: | **By appointment: On Tuesdays via Zoom** |
| Class Days: | **Tuesday and Thursday** | Office Phone #: | **NA** |
| Class Times: | **6:00 – 8 :35pm** | Emergency Contact: | **Silvia Murray (760) 355-6201** |
| Units: | **4** | | |

## 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)

PREREQUISITES: - 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: 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.

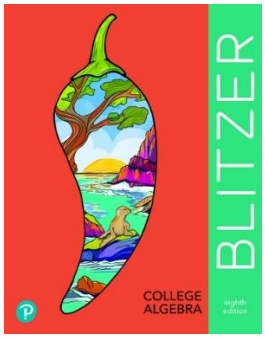
## Course Objectives and Minimum Standards for a Grade of "C"

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 an 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. 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.

## Textbooks & Other Resources or Links

- **College Algebra, 8th Edition**. Author(s): Blitzer, Robert**.** ISBN-13: 9780136970514
- **Working Camera and Microphone**




## Calculators

Although calculators are not required, it is highly recommended that you bring one to class. A simple scientific calculator can help.

## Course Requirements and Instructional Methods

**Tests (75%)**

**You can't show up late for tests! You will have a total of 3 tests each worth 25% (total of 75%).** Tests will be announced at least one day before, but I am hoping to give you more notice if possible. **Tests will be on the chapters being covered and most likely will include some material from previous tests.** You can only miss ONE test. If you miss a test, the NEXT test will count for two scores (the previous test will NOT be counted as two scores). If you miss two or more tests, the other tests will be given zeros for a score. You must take the test in the class you are registered for (no exceptions).

**Final Exam (15%)**

The Final Exam will consist of 20 questions. It will be comprehensive. **You CAN'T miss the final exam. USE OF AN UNAUTHORIZED ELECTRONIC DEVICE (CELL PHONE, TABLET, ECT…) WILL RESULT IN A ZERO SCORE. The class ends at the conclusion of the Final Exam.**

**Homework (10%)**

Make sure you use the same email you use for Canvas and MyStatLab ALL homework will be done through the MyMathLab which you need to access via Canvas. All deadline dates are online at the site. NO LATE HOMEWORK WILL BE ACCEPTED. Everything on MyMathLab.com/MyStatLab.com is considered homework. No homework will be accepted after the final exam. **The class ends at the conclusion of the Final Exam.**

**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.

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## Course Grading Based on Course Objectives

| GRADING SCALE | |
|---|---|
| **A** | **100 – 90** |
| **B** | **89 – 80** |
| **C** | **79 – 70** |
| **D** | **69 – 60** |
| **F** | **59 – under** |

| GRADE DISTRIBUTION | |
|---|---|
| **Tests (3 tests @ 25% each)** | **75%** |
| **Final Exam** | **15%** |
| **Homework** | **10%** |

## 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 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.
- Four instances of the following may result in you being dropped from the course:
    1. Missing class
    2. Leaving class early
    3. Missing a quiz
    4. Missing an exam
    5. Failure to complete assignments

## Classroom Etiquette

- THE USE OF AN UNAUTHORIZED ELECTRONIC DEVICE (CELL PHONE, TABLET, ECT…) IN ANY TEST AND/OR FINAL EXAM WILL RESULT IN A ZERO SCORE.
- Respect class start and end time. DO NOT come in late or leave early from class (it disrupts the flow of the class).
- Copies of books are not allowed in class.
- Food and Drink are prohibited in all classrooms. Water bottles with lids/caps are the only exception. Additional restrictions will apply in labs. Please comply as directed.
- Humor is a big part of the class. To break up the monotony of class, I will pick points during class to stop so that the four hours and fifteen minutes do not seem as long. This is strategically done to help students cope with the long class.
- Disruptive Students: Students who disrupt or interfere with a class may be sent out of the room and told to meet with the Campus Disciplinary Officer before returning to continue with coursework. Disciplinary procedures will be followed as outlined in the General Catalog.
- Children in the classroom: Due to college rules and state laws, no one who is not enrolled in the class may attend, including children.

## 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, (10) use appropriate emoticons (emotional icons) to help convey meaning, and (11) use appropriate intensifiers to help convey meaning [do not use ALL CAPS or multiple exclamation marks (!!!!)].

## 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, or 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.

## Additional Student Services

Imperial Valley College offers various services in support of student success. The following are some of the services available for students. Please speak to your instructor about additional services which may be available.

- CANVAS LMS. Canvas is Imperial Valley College's main Learning Management System. To log onto Canvas, use this link: Canvas Student Login. The Canvas Student Guides Site provides a variety of support available to students 24 hours per day. Additionally, a 24/7 Canvas Support Hotline is available for students to use: 877-893-9853.
- Learning Services. There are several learning labs on campus to assist students through the use of computers and tutors. Please consult your Campus Map for the Math Lab; Reading, Writing & Language Labs; and the Study Skills Center.
- Library Services. There is more to our library than just books. You have access to tutors in the Study Skills Center, study rooms for small groups, and online access to a wealth of resources.
- The classroom notes, old tests, study guides are available through www.MyMathLab.com under "View Course Documents"
- Also suggest looking for tutorials on www.youtube.com and www.khanacademy.org

## Disabled Student Programs and Services (DSPS)

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. The DSP&S office is located in Building 2100, telephone 760-355-6313. Please contact them if you feel you need to be evaluated for educational accommodations.

## Student Counseling and Health Services

Students have counseling and health services available, provided by the pre-paid Student Health Fee.

- **Student Health Center**. A Student Health Nurse is available on campus. In addition, Pioneers Memorial Healthcare District provide basic health services for students, such as first aid and care for minor illnesses. Contact the IVC Student Health Center at 760-355-6128 in Room 1536 for more information.
- **Mental Health Counseling Services**. Short-term individual, couples, family and group counseling services are available for currently enrolled students. Services are provided in a confidential, supportive, and culturally sensitive environment. Please contact the IVC Mental Health Counseling Services at 760-355-6310 or in the building 1536 for appointments or more information.

## Veteran's Center

The mission of the IVC Military and Veteran Success Center is to provide a holistic approach to serving military/veteran students on three key areas: 1) Academics, 2) Health and Wellness, and 3) Camaraderie; to serve as a central hub that connects military/veteran students, as well as their families, to campus and community resources. Their goal is to ensure a seamless transition from military to civilian life. The Center is located in Building 600 (Office 624), telephone 760-355-6141.

## Extended Opportunity Program and Services (EOPS)

The Extended Opportunity Program and Services (EOPS) offers services such as priority registration, personal/academic counseling, tutoring, book vouchers, and community referrals to qualifying low-income students. EOPS is composed of a group of professionals ready to assist you with the resolution of both academic and personal issues. Our staff is set up to understand the problems of our culturally diverse population and strives to meet student needs that are as diverse as our student population.

Also under the umbrella of EOPS our CARE (Cooperative Agency Resources for Education) Program for single parents is specifically designed to provide support services and assist with the resolution of issues that are particular to this population. Students that are single parents receiving TANF/Cash Aid assistance may qualify for our CARE program, for additional information on CARE please contact Lourdes Mercado, 760-355- 6448, lourdes.mercado@imperial.edu.

EOPS provides additional support and services that may identify with one of the following experiences:

- Current and former foster youth students that were in the foster care system at any point in their lives
- Students experiencing homelessness
- Formerly incarcerated students

To apply for EOPS and for additional information on EOPS services, please contact Alexis Ayala, 760-355-5713, alexis.ayala@imperial.edu.

## Student Equity Program

- The Student Equity Program strives to improve Imperial Valley College's success outcomes, particularly for students who have been historically underrepresented and underserved. The college identifies strategies to monitor and address equity issues, making efforts to mitigate any disproportionate impact on student success and achievement. Our institutional data provides insight surrounding student populations who historically, are not fully represented. Student Equity addresses disparities and/or disproportionate impact in student success across disaggregated student equity groups including gender, ethnicity, disability status, financial need, Veterans, foster youth, homelessness, and formerly incarcerated students. The Student Equity Program provides direct supportive services to empower students experiencing insecurities related to food, housing, transportation, textbooks, and shower access. We recognize that students who struggle meeting their basic needs are also at an academic and

economic disadvantage, creating barriers to academic success and wellness. We strive to remove barriers that affect IVC students' access to education, degree and certificate completion, successful completion of developmental math and English courses, and the ability to transfer to a university. Contact: 760.355.5736 or 760.355.5733 Building 100.

- The Student Equity Program also houses IVC's Homeless Liaison, who provides direct services, campus, and community referrals to students experiencing homelessness as defined by the McKinney-Vento Act. Contact: 760.355.5736 Building 100.

## Student Rights and Responsibilities

Students have the right to experience a positive learning environment and to due process of law. For more information regarding student rights and responsibilities, please refer to the IVC General Catalog.

## Information Literacy

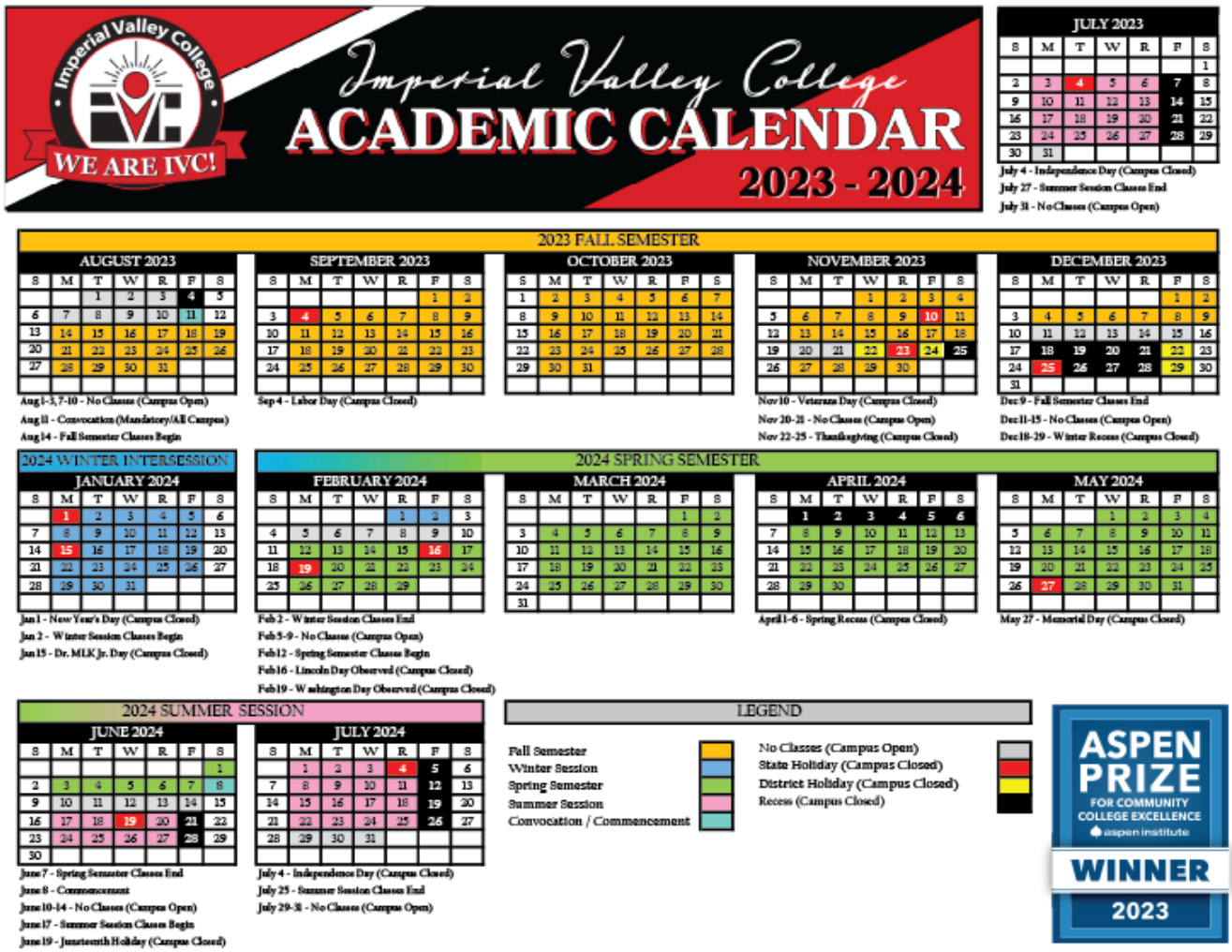
Imperial Valley College is dedicated to helping students skillfully discover, evaluate, and use information from all sources. The IVC Library Department provides numerous Information Literacy Tutorials to assist students in this endeavor.

## Anticipated Class Schedule/Calendar

| WEEK | TOPIC | |
|---|---|---|
| **1-6** | 1. Equations and Inequalities<br>• 1.1 Graphs and Graphing Utilities<br>• 1.2 Linear Equations and Rational Equations<br>• 1.3 Models and Applications<br>• 1.4 Complex Numbers<br>• 1.5 Quadratic Equations<br>• 1.6 Other Types of Equations<br>• 1.7 Linear Inequalities and Absolute Value Inequalities<br>2. Functions and Graphs<br>• 2.1 Basics of Functions and Their Graphs<br>• 2.2 More on Functions and Their Graphs<br>• 2.3 Linear Functions and Slope<br>• 2.4 More on Slope<br>• 2.5 Transformations of Functions<br>• 2.6 Combinations of Functions; Composite Functions<br>• 2.7 Inverse Functions<br>• 2.8 Distance and Midpoint Formulas; Circles<br>3. Polynomial and Rational Functions<br>• 3.1 Quadratic Functions<br>• 3.2 Polynomial Functions and Their Graphs<br>• 3.3 Dividing Polynomials; Remainder and Factor Theorems<br>• 3.4 Zeros of Polynomial Functions<br>• 3.5 Rational Functions and Their Graphs<br>• 3.6 Polynomial and Rational Inequalities<br>• 3.7 Modeling Using Variation | **TEST AFTER THESE CHAPTERS 1-3** |

| | | |
|---|---|---|
| **7-12** | 4. Exponential and Logarithmic Functions<br>• 4.1 Exponential Functions<br>• 4.2 Logarithmic Functions<br>• 4.3 Properties of Logarithms<br>• 4.4 Exponential and Logarithmic Equations<br>• 4.5 Exponential Growth and Decay; Modeling Data<br>5. Systems of Equations and Inequalities<br>• 5.1 Systems of Linear Equations in Two Variables<br>• 5.2 Systems of Linear Equations in Three Variables<br>• 5.3 Partial Fractions<br>• 5.4 Systems of Nonlinear Equations in Two Variables<br>• 5.5 Systems of Inequalities<br>• 5.6 Linear Programming<br>6. Matrices and Determinants<br>• 6.1 Matrix Solutions to Linear Systems<br>• 6.2 Inconsistent and Dependent Systems and Their Applications<br>• 6.3 Matrix Operations and Their Applications<br>• 6.4 Multiplicative Inverses of Matrices and Matrix Equations<br>• 6.5 Determinants and Cramer's Rule | **TEST AFTER THESE CHAPTERS 4-6** |
| **13-15** | 7. Conic Sections<br>• 7.1 The Ellipse<br>• 7.2 The Hyperbola<br>• 7.3 The Parabola<br>8. Sequences, Induction, and Probability<br>• 8.1 Sequences and Summation Notation<br>• 8.2 Arithmetic Sequences<br>• 8.3 Geometric Sequences and Series<br>• 8.4 Mathematical Induction<br>• 8.5 The Binomial Theorem<br>• 8.6 Counting Principles, Permutations, and Combinations<br>• 8.7 Probability | **TEST AFTER THESE CHAPTERS 9-12** |

# ***Tentative, subject to change without prior notice***


Imperial Valley College
WE ARE IVC!
Imperial Valley College
ACADEMIC CALENDAR
2023 - 2024
JULY 2023
July 4 - Independence Day (Campus Closed)
July 27 - Summer Session Classes End
July 31 - No Classes (Campus Open)
2023 FALL SEMESTER
AUGUST 2023
Aug 1-3, 7-10 - No Classes (Campus Open)
Aug 11 - Convocation (Mandatory/All Campus)
Aug 14 - Fall Semester Classes Begin
SEPTEMBER 2023
Sep 4 - Labor Day (Campus Closed)
OCTOBER 2023
NOVEMBER 2023
Nov 10 - Veterans Day (Campus Closed)
Nov 20-21 - No Classes (Campus Open)
Nov 22-25 - Thanksgiving (Campus Closed)
DECEMBER 2023
Dec 9 - Fall Semester Classes End
Dec 11-15 - No Classes (Campus Open)
Dec 18-29 - Winter Recess (Campus Closed)
2024 WINTER INTERSESSION
JANUARY 2024
Jan 1 - New Year's Day (Campus Closed)
Jan 2 - Winter Session Classes Begin
Jan 15 - Dr. MLK Jr. Day (Campus Closed)
2024 SPRING SEMESTER
FEBRUARY 2024
Feb 2 - Winter Session Classes End
Feb 5-9 - No Classes (Campus Open)
Feb 12 - Spring Semester Classes Begin
Feb 16 - Lincoln Day Observed (Campus Closed)
Feb 19 - Washington Day Observed (Campus Closed)
MARCH 2024
APRIL 2024
April 1-6 - Spring Recess (Campus Closed)
MAY 2024
May 27 - Memorial Day (Campus Closed)
2024 SUMMER SESSION
JUNE 2024
June 7 - Spring Semester Classes End
June 8 - Commencement
June 10-14 - No Classes (Campus Open)
June 17 - Summer Session Classes Begin
June 19 - Juneteenth Holiday (Campus Closed)
JULY 2024
July 4 - Independence Day (Campus Closed)
July 25 - Summer Session Classes End
July 29-31 - No Classes (Campus Open)
LEGEND
Fall Semester
Winter Session
Spring Semester
Summer Session
Convocation / Commencement
No Classes (Campus Open)
State Holiday (Campus Closed)
District Holiday (Campus Closed)
Recess (Campus Closed)
ASPEN PRIZE
FOR COMMUNITY COLLEGE EXCELLENCE
aspen institute
WINNER
2023


TURN OFF YOUR CELL PHONE
IF IT RINGS, YOU WILL BE ASKED TO LEAVE

Pearson | MyLab | Math

## Student Registration Instructions for Canvas

### First, open your Pearson content

1. Log in to Canvas as a student and enter your course.
2. Depending on your course setup, do one of the following. Don't know your setup?
   - Select **MyLab and Mastering** or **Access Pearson** in Course Navigation.
   - Select a Pearson link in a module.
   - **Barnes & Noble, Follett Willo, RedShelf, and VitalSource:** Select the Course Materials link and then check your opt status. If applicable, select **Launch Courseware** or **Access Courseware**.
3. If prompted, select **Open Pearson**.
4. Select **Open MyLab & Mastering** to go to the course home page or select a link under Student Links.

### Next, get access to your Pearson content

1. Link your student Canvas and Pearson accounts. In some cases, your Pearson account might be automatically created and linked for you.
2. If prompted, select an access option:
   - Enter a prepaid access code that came with your textbook or from the bookstore.
   - Buy access using a credit card or PayPal account.
   - If available, get temporary access without payment for 14 days.
3. Select **Go to my course**.

We recommend you always enter your MyLab Math course from Canvas.

### Need assistance?

Browser requirements

Student Help