



IMPERIAL VALLEY COLLEGE

Basic Course Information

Semester:	Fall 2024	Instructor Name:	Jeffrey Burt
Course Title & #:	Math 150: College Algebra	Email:	jeff.burt@imperial.edu
CRN #:	11060	Webpage (optional):	NA
Classroom:	2735	Office #:	2765
Class Dates:	8/12/24-12/6/24	Office Hours:	M/W 12:50 – 1:20. T/Th 3:45 – 5:15
Class Days:	MW	Office Phone #:	760-355-6489
Class Times:	10:15am – 12:50pm	Emergency Contact:	email
Units:	4	Class Format:	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)

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: 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. (ILO1, ILO2)

Course Objectives

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

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



Textbooks & Other Resources or Links

Blitzer, R. 2022. College Algebra. 8th ed. Pearson. ISBN: 9780136970613

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 5 hours of class time, plus an additional 10 hours each week for working outside of class. This means you should spend at least 15 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 recommended and 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, call me, 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.

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Course Grading Based on Course Objectives

There will be 4 in class exams, worth 100 points each. The final is comprehensive and is worth 150 points. There are no make-ups for the exams or final. Plan to be here for the exam dates in the schedule, but also note that those dates can change, so make sure you are paying attention and staying up to date. Any missed exam will result in the grade of a '0'.

The combined total of your homework is worth 100 points. The combined total of your quizzes will also be worth 100 points. Your two lowest quizzes will be dropped. There are no make ups.

Grading: You need at least 525 out of the 750 combined class points for a 'C' grade. It is broken down as follows

Homework

50 points

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Quizzes	50 points
Exams	400 points
Final	150 points
Total	650 points

100-90% is an A, 89.99-80% is a B, 79.99-70% is a C, 69.99-60% is a D, below 60% is an F.

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

You are expected to be in class on time. You are expected to have academic integrity, and any cheating will result in a 0 on that particular assignment, and notification of dishonesty to the school.

If you are struggling here are some very helpful suggestions:

- 1) Read the material before you come to class. I cannot stress enough how much it can help to look at what we will be covering. Use the schedule at the end of the syllabus.
- 2) Form a study group with other students in class.
- 3) Come to office hours. I'm happy to go over absolutely anything you have questions about, even if you think it is too easy. Office hours are for questions and I really enjoy helping out.
- 4) Use the free tutoring! It is awesome. Math tutoring at universities costs over \$40 per hour, and you have access to it for free.
- 5) Youtube is amazing. There are many many quality videos on college algebra.

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 will receive a zero (0) on the exam or assignment, and the instructor may
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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) use of a commercial term paper service.

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

	Monday	Wednesday
Week 1 8/12-8/16	Introduction	1.2 – 1.3
Week 2 8/19-8/23	1.4 – 1.5	1.6 -1.7
Week 3 8/26-8/30	2.1 – 2.2	2.3 – 2.4
Week 4 9/2-9/6	Holiday	2.5 – 2.6
Week 5 9/9-9/13	2.7 -2.8	3.1 – 3.2
Week 6 9/16-9/19	Review	Exam 1
Week 7 9/23-9/27	3.3 – 3.4	3.5 – 3.6
Week 8 9/30-10/4	3.7 , 4.1	4.2 – 4.3
Week 9 10/9-10/11	4.4 – 4.5	Review
Week 10 10/14-10/18	Exam 2	5.1 – 5.2
Week 11 10/21-10/25	5.4	5.5 – 5.6
Week 12 10/28-11/1	6.1	6.2 – 6.3
Week 13 11/4-11/8	6.5	Review
Week 14 11/11-11/15	Holiday	Exam 3
Week 15 11/18-11/22	7.1 – 7.2	7.3
Week 16 11/25-11/29	Thanksgiving Break	Thanksgiving Break
Week 17 12/2-12/8	FINAL EXAM	

Subject to change without prior notice