



IMPERIAL VALLEY COLLEGE

Basic Course Information

Semester:	Spring 2026	Instructor Name:	Jeffrey Burt
Course Title & #:	Math 190: PreCalculus	Email:	jeff.burt@imperial.edu
CRN #:	20063	Webpage (optional):	NA
Classroom:	2728	Office #:	2765
Class Dates:	2/17-6/12	Office Hours:	M/W 1:45 – 2:45 T/TH 2:30-3:30
Class Days:	MW	Office Phone #:	760-355-6489
Class Times:	10:15-1:25	Emergency Contact:	email
Units:	4	Class Format:	In Person

Course Description

Preparation for calculus: polynomial, absolute value, radical, rational, exponential, logarithmic, and trigonometric functions and their graphs; analytic geometry, polar coordinates. (CSU, UC credit limited. See a counselor.)

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

Appropriate placement as defined by AB705 or, MATH 140 - or equivalent with a grade of "C" or better.

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. (ILO1, ILO2)

Course Objectives

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

1. Solve equations in one variable including polynomial, rational, radical, absolute value, exponential, logarithmic, piecewise-defined functions, trigonometric and inverse trigonometric functions; and solve inequalities in one variable, including polynomial, rational and absolute value inequalities.
2. Solve systems of equations and inequalities.
3. Demonstrate an understanding of the relationship between functions and their inverses algebraically and graphically.
4. Graph functions and relations in rectangular and polar coordinates. Analyze the graphs of polynomial, rational, exponential and logarithmic functions based on particular characteristics of the function.
5. Apply transformations to the graphs of functions and relations.
6. Analyze the results from equations and/or graphs of functions and relations;
7. Solve applied problems from a variety of disciplines that can be modeled by linear, polynomial, absolute value, rational, radical, exponential and logarithmic functions.
8. Evaluate trigonometric functions of an angle in radians and degrees.
9. Simplify trigonometric expressions.
10. Solve trigonometric equations, triangles and applied problems that can be modeled by trigonometric functions.



11. Identify special triangle and their related angle and side measures.
12. Graph trigonometric functions and their inverse functions and apply changes in period, phase and amplitude to generate new graphs
13. Prove trigonometric identities and use the identities to solve for exact values, simplify expressions and solve trigonometric equations.
14. Classify and graph conic sections.
15. Analyze parametric and polar equations, functions and graphs.
16. Evaluate sequences and series.

Textbooks & Other Resources or Links

Blitzer, Robert. 2022. *Precalculus*. 7 th Pearson. ISBN: 9780136922193.

A graphing calculator can be helpful while doing the homework, but they are not allowed on exams.

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 arraignments.
- 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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Updated 11/2024

Course Grading Based on Course Objectives

There will be 3 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. There are no make ups.

Grading: You need at least 70% overall and a 70% test average for a 'C' grade. It is broken down as follows

Homework	7%
Quizzes	8%
Exams	60%
Final	25%
Total	100%

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.

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

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 first semester calculus.

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.

Anticipated Class Schedule/Calendar

Week & Dates	
Week 1 Feb 16 – Feb 22	Holiday , First Day of class
Week 2 Feb 23 – Mar 1	Chapter 2
Week 3 Mar 2 – Mar 8	Chapter 2, chapter
Week 4 Mar 9 – Mar 15	Chapter 3
Week 5 Mar 16 – Mar 22	Chapter 3, Exam 1
Week 6 Mar 23 – Mar 29	Chapter 4
Week 7 Mar 30 – Apr 5	Chapter 4, Chapter 5
Week 8 Apr 6 – Apr 12	Spring Break
Week 9 Apr 13 – Apr 19	Chapter 5
Week 10 Apr 20 – Apr 26	Chapter 6
Week 11 Apr 27 – May 3	Chapter 6, Exam 2
Week 12 May 4 – May 10	Chapter 7
Week 13 May 11 – May 17	Chapter 8
Week 14 May 18 – May 24	Chapter 9
Week 15 May 25 – May 31	Holiday , Chapter 9, Chapter 10
Week 16 Jun 1 – Jun 7	Chapter 10, Exam 3
Week 17 Jun 8 – Jun 14	Review, Final Exam

Subject to change without prior notice