IMPERIAL VALLEY COLLEGE

Basic Course Information

Semester:	**Summer 2021**	Instructor Name:	**Jill Nelipovich**
Course Title & #:	**Math 190 – Pre-Calculus**	Email:	**jill.nelipovich@imperial.edu**
CRN #:	**30122**	Webpage (optional):	**CANVAS**
Classroom:	**ONLINE**	Office #:	**6297**
Class Dates:	**See optional zoom schedule**	Student Hours:	****by appointment**
Class Days:	**See optional zoom schedule**	Office Phone #:	**Cell phone #: in CANVAS** **Office: 760-355-6297**
Class Times:	**See optional zoom schedule**	Emergency Contact:	**Silvia Murray** **760-355-6201**
Units:	3	Class Format:	ONLINE with OPTIONAL zoom

Welcome Students! 😊

- Thank you for joining us on your academic journey this summer!
- The class format will be entirely online.
- A majority of the work will be completed through Canvas.
- I will offer multiple zoom sessions throughout the summer. The sessions are **OPTIONAL!**

Scheduled Optional Zoom Sessions:

(All sessions will be recorded and posted on Canvas provided students attend)

****I will survey students to find other times as well.**

Date	Zoom Sessions	Date	Zoom Sessions
Week 1 June 21 – June 24	Monday June 21: 9:00 – 10:00 a.m.	Week 4: July 12 – July 15	Monday, July 12 9:00 – 10:00 a.m.
	Tuesday June 22: 9:00 – 10:00 a.m.		Tuesday July 13 9:00 – 10:00 a.m.
	Thursday June 24: 10:00 a.m. – 11:00 a.m.		
Week 2 June 28 – Jul 1	Monday June 28 9:00 – 10:00 a.m.	Week 5: July 19 – July 22	Monday July 19 9:00 – 10:00 a.m.
	Tuesday, June 29 9:00 – 10:00 a.m.		Tuesday, July 20 9:00 – 10:00 a.m.
	Wednesday, June 30 9:00 – 10:00 a.m.		Wednesday, July 21 9:00 – 10:00 a.m.
Week 3: July 5 – July 8	Tuesday July 6 9:00 – 10:00 a.m.	Week 6: July 26 – July 29	Monday July 26 9:00 – 10:00 a.m.
	Thursday July 8 9:00 – 10:00 a.m.		Tuesday July 27 9:00 – 10:00 a.m.
			Wednesday July 28 8:30 – 9:30 a.m.

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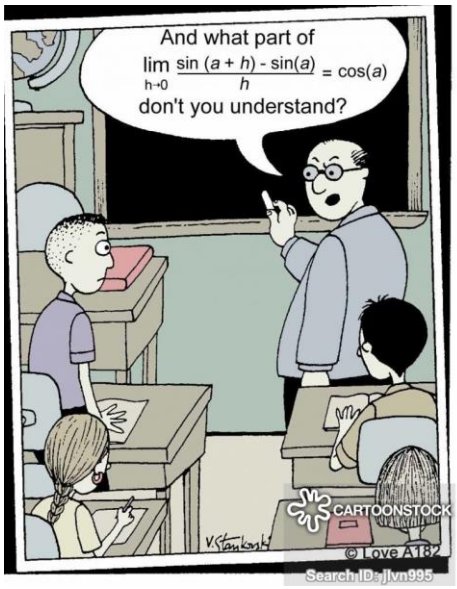
Welcome Students 😊 **The fall semester will be a new experience for all of us. First "assignment" in this class is to stay healthy and exercise frequently. Exercise creates a healthy immune system.**



To the left is more of a calculus topic – but we need a strong background in algebra and trig to succeed in calculus!

My job: To be available for you and to help you both learn and succeed in a remote environment.

What does success mean?

- Doing well in this course

  AND

- Succeeding in the next courses
  (Calculus 1 and 2)

- "I am scared of algebra"
  Millions of students have succeeded before you – and you will too!

Course Description

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

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

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)

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Course Objectives

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

1. Solve systems of equations and inequalities.
2. 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.
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

Students may use either the **textbook or MyMathLab** (you do not need both)

1. Textbook: Blitzer, Robert 2017. Precalculus 6th. Pearson ISBN: 978-0134469140

OR

2. MyMathLabRegistration

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Course Requirements and Instructional Methods

How will the class be structured in the online modality?
ONLINE COURSE STRUCTURE

1. Guided Lecture Notes for each chapter will be provided in Canvas – Chapter 1

Sample Table of Contents

2. Video Lectures: Chapter 1.3.1 – Video 1 – Pythagorean Theorem and the Distance Formula

- Zoom class (optional - I will post the zoom class video)
- The videos are, on average, between 10 – 15 minutes in link (3 to 4 per section)
- Video Lecture note quizzes (either embedded in the videos or on canvas).

4.Quizzes – Based on homework problems and assigned in CANVAS daily

5. Discussion Board: 3 posts – (since this is an online course, we need to have interaction)

a. **Introduce Yourself**
b. **Work in groups of two to graph and post a trigonometric function.**
Another group of two will offer positive feedback and illustrate areas to improve on from your beautiful math work!
c. **Work in groups of two to post a trigonometric identity.**
Another group of two will offer positive feedback and illustrate areas to improve on from your beautiful math work!

6. Online Exams (3 exams + final)

How to Succeed in the ONLINE course structure:

- It will be imperative you keep up with the course and stay disciplined.
- Dedicate a time each day to watch videos and do homework. It is best if you break it up into multiple small intervals. This gives your brain some rest time.

- Attend our virtual "zoom" sessions. If you cannot make the pre-listed times, let me know, I will offer additional meeting times.

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

Homework Quizzes……..10%
Discussions/Projects…… 5%
Exams (3) …….. 60%
Final Exam……25%

Total: 100%

**** There are no make-up for exams.**
If you miss an exam, you will be provided a longer final to accommodate for the missing assessment. ONLY DOCUMENTED EXCUSED ABSENCES WILL BE CONSIDERED

Course Policies

ATTEND CLASS
PAY ATTENTION WHEN IN CLASS
Keep up with the homework and quizzes
Self-motivation is a must!
Do your homework before the next class session. Attend office hours and/or text when you can make it
Be respectful of your classmates. Show up on time and ready to learn.

Have fun! Remember – this is the second class on the pathway to a STEM degree! Use the opportunity wisely 😊 Learn the material so it becomes "natural" for you as you progress through the topics!

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

Date or Week	Activity, Assignment, and/or Topic	Date or Week	Activity, Assignment, and/or Topic
6/21	a. Orientation, 1.1 – 1.5 b. Orientation Quiz #1 Due	7/12	a. 5.3 – 5.4 b. Quiz #10
6/22	a. 1.6 – 1.9 b. Quiz #2 Due	7/13	a. 5.5, 6.1, 6.2 b. Last Day to Submit and re-submit quiz # 7 - 10
6/23	a. 2.1 – 2.3 b. Quiz #3	7/14	**a. Test #2:** Chapters 4 and 5
6/24	a. 2.4 – 2.6 b. Quiz #4	7/15	a. 6.3 – 6.5 b. Quiz #11
6/28	a. 2.7, 3.1, 3.2 b. Quiz #5	7/19	a. 7.2, 7.3, 8.1 b. Quiz #12
6/29	a. 3.3 – 3.5 b. Quiz #6	7/20	a. 9.1 – 9.3 b. Quiz #13
6/30	a. Review b. Last day to turn in Quizzes or resubmission of quizzes #2 - 6	7/21	a. Review b. Last Day to Submit and Resubmit Quiz #11 - 13
7/1	**a. Test #1** Chapters 1 - 3	7/22	a. Test #3: Chapters 6.1 – 6.5, 7.2-7.3, 8.1, 9.1 – 9.3
7/5	**Holiday**	7/26	a. 10.1, 10.2 b. Quiz # 14
7/6	a. 4.1 – 4.3 b. Quiz #7	7/27	a. 10.3 b. Quiz #15
7/7	a. 4.4 – 4.7 b. Quiz #8	7/28	a. Review b. Last Day to submit and resubmit quiz: #14 - 15
7/8	a. 5.1 – 5.2 b. Quiz #9	7/29	**Final Exam (cumulative)**

Subject to change without prior notice