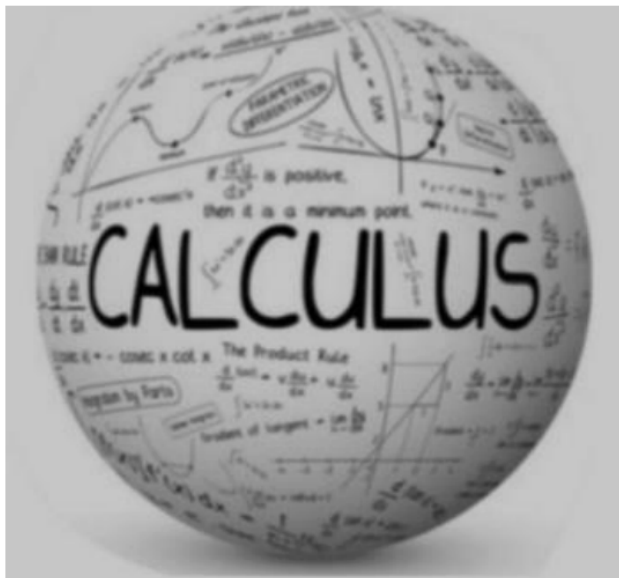


Basic Course Information

Semester:	Spring 2026	Instructor Name:	Jill Nelipovich
Course Title & #:	Math 210: Multivariable Calculus	Email:	Jill.nelipovich@imperial.edu
CRN #:	20410	Webpage (optional):	Canvas
Classroom:	2728	Office #:	2760
Class Dates:	2/17/26 – 6/12/26	Student Hours:	MW: 9:30 – 10:00 a.m. 2:30 – 3:00 p.m. Thur: 11:00 – 12:00 a.m. 5:00 – 6:00 p.m. Zoom by appt.
Class Days:	T/TR	Office Phone #:	760-355-6297
Class Times:	6:30 – 9:00 p.m.	Emergency Contact:	760-355-6201
Units:	4	Class Format/Modality:	Online

Welcome Students! The spring semester will be fun! We get in person learning – which is a HUGE benefit to learning. It provides you the opportunity to collaborate with your peers, get real-time help with questions and create relationships with others that will push you academically.



What skills do you need to succeed?

- **Algebra:** Just like in Calculus I and II, strong algebra skills are essential. You should be comfortable manipulating expressions, solving equations, and working efficiently without relying on a calculator for every step.
- **Trigonometry:** Know your unit circle and core identities. These skills will be used frequently and are expected background knowledge.

My role:

My job is to support you and be available to help you succeed. I will explain concepts, answer questions, and guide you when you need it.

Your role:

Do the work—consistently. Avoid procrastination and start assignments early. Aim to work a little every day rather than cramming before exams. (Cramming rarely leads to long-term understanding.) Your success depends on the effort you put in. I can guide you, but I cannot learn the material for you.

What does success mean?

- Building the skills needed to succeed in this class and in future courses at IVC and the university
- Developing strong problem-solving abilities you can use in high-stakes situations, such as job interviews or professional settings. Yes, they do ask math questions in interviews.
- Gaining the confidence and knowledge to apply mathematics in real-world contexts—yes, many careers (especially in technical and engineering fields) will expect you to think mathematically.
- Learn how to work collaboratively. Work together to build your independent knowledge.

Course Description

Vector valued functions, calculus of functions of more than one variable, partial derivatives, multiple integration, Green's Theorem, Stokes' Theorem, divergence theorem. (C-ID: MATH 230) (CSU/UC)

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

MATH 194 - 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.

Textbooks & Other Resources or Links

Required:

Stewart, J., Clegg, D, Watson S. . 2023. *Calculus: Early Transcendentals*. 9th Cengage Learning. ISBN: 978-1337613927.

Course Objectives

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

1. Perform vector operations
2. Determine equations of lines and planes
3. Find the limit of a function at a point
4. Evaluate derivatives
5. Write the equation of a tangent plane at a point
6. Determine differentiability
7. Find local extrema and test for saddle points
8. Solve constraint problems using Lagrange multipliers
9. Compute arc length
10. Find the divergence and curl of a vector field
11. Evaluate two and three dimensional integrals
12. Apply Green's, Stokes', and divergence theorems

Course Requirements and Instructional Methods

- **Homework:** Homework must be done in a separate notebook and must be kept organized. It is expected that you will complete your homework by the class before an exam and it will be collected and returned on that day. For those of you who wish to use a tablet, you may upload the homework as one pdf to canvas. What is not completed by the class before the exam will not be graded at a later date.
- **Quizzes:** 21 Quizzes will be given daily and completed in groups. The two lowest quiz scores will be dropped. If you stay until the end of class, you may turn the quiz in the following class period. If you leave early, that will be one of your dropped quizzes.
- **Exams:** 4 Exams (15% each exam)
 - Exam 1: Chapters 12 and 13
 - Exam 2: Chapter 14
 - Exam 3: Chapter 15
 - Exam 4: Chapter 16
- **Final Exam: Cumulative (Chapters 12 – 16)**
- **There are no make-up exams.** If you should miss an exam, you must provide excused documentation. If you should miss an exam with excused documentation, I will replace your final grade with the final exam score.
- If anyone does better on the final, I will replace your lowest test grade with the grade from the final exam.
- It is the students' responsibility to drop the class. If you stop attending, I reserve the right to drop you for excessive absences as state in the college catalog. There is no guarantee I will drop you. Imperial Valley College's (IVC) excessive absence policy dictates that instructors may drop students whose unexcused absences exceed the number of hours the class is scheduled to meet per week.

Course Grading Based on Course Objectives

Your final grade in this course will be based on your performance across a variety of activities that reflect the full writing process—from brainstorming and research to revision and reflection. Each assignment category contributes a specific percentage to your final grade:

Grading Breakdown

Category	Description	Weight
Homework	Problems are assigned from the textbook	5%
Quizzes	Daily quizzes to be completed in groups	8%
Exams	Four Exams (15% each)	60%
Final Exam	Cumulative	25%
Exam Corrections	Due one week after the exams are returned	2%

Final Grade Calculation

A: 90% – 100% ; B: 80% - 89% ; C: 70% - 79%; D: 60% - 69% ; F: Less than 60%

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

Student Expectations

To be successful in this course, you are expected to:

- **Attend** and **participate** in class every Tuesday and Thursday
- **Form** study groups.
- Use the **MESA center**. If you are not a member of MESA, sign up!
- Complete your homework for a section within a couple of days of completing the section in lecture
- Consistently review the material
- Keep an organized list of formulas/definitions/ideas you need.
- Keep your math organized. Write neat. Show your work. Headwork = no credit
- **Communicate** with myself if you have questions
- **Complete** all discussions, assignments, online quizzes, and/or exams on time.

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 3 hours of class time, plus an additional 6 hours each week for working outside of class. This means you should spend at least 9 hours working on math each week.

Instructor Expectations

As your instructor, I will:

- **Communicate** with you via Canvas Announcements and Inbox.
- **Post** weekly course-related announcements.
- **Respond** to your emails or messages within 24–48 hours.
- Provide individual **feedback** on quizzes and exams within one week of the due date.
- Work with you to ensure a **successful learning experience** in this course.



Academic Honesty Policy

Don't cheat!

Cheating

Cheating includes any attempt to gain unfair academic advantage. Examples include:

- Sharing or receiving answers during exams. Quizzes – you are encouraged to work together. This does not mean quickly copying the answer from a classmate
- Submitting work you didn't complete yourself
- Using unauthorized materials during an assessment

Violations of academic honesty will result in a zero for the assignment and may be reported to the college for disciplinary review.

We all become better learners by upholding integrity in everything we do.

Attendance Policy

Show up to class.

If you have excessive absences, I may drop you from the course, but not guaranteed. Please refer to the [General Catalog](#) for details on drop and withdrawal deadlines.

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

Date	Sections Covered	Homework	Quizzes
2.17.26	Introduction, Section 12.1	Section 12.1	Quiz #1
2.19.26	Sections 12.2, 12.3	Section 12.2	Quiz #2
2.24.26	Sections 12.3, 12.4	Section 12.3, 12.4	Quiz #3
2.26.26	Sections 12.5, 12.6	Section 12.5, 12.6	Quiz #4
3.03.26	Chapter 12 Catch up Section 13.1	Section 13.1	Quiz #5
3.05.26	Sections 13.2, 13.3	Section 13.2, 13.3	Quiz #6
3.10.26	Sections 13.3, 13.4	Section 13.3, 13.4	Quiz #7
3.12.26	Review	Homework Due	
3.17.26	Exam 1: Chapters 12 and 13		
3.19.26	Sections 14.1, 14.2	Section 14.1	Quiz #8
3.24.26	Sections 14.2, 14.3	Section 14.2, 14.3	Quiz #9
3.26.26	Sections 14.4, 14.5	Section 14.4, 14.5	Quiz #10
3.31.26	Sections 14.6, 14.7	Section 14.6	Quiz #11
4.02.26	Sections 14.7, 14.8	Section 14.7, 14.8	Quiz #12
Spring Break			
4.14.26	Review		
4.16.26	Exam 2: Chapter 14		
4.21.26	Sections 15.1, 15.2	Section 15.1	Quiz #13
4.23.26	Sections 15.2, 15.3	Section 15.2	Quiz #14
4.28.26	Sections 15.3, 15.4	Section 15.3	Quiz #15
4.30.26	Sections 15.4, 15.5	Section 15.4, 15.5	Quiz #16
5.05.26	Sections 15.6, 16.7	Section 15.6, 15.7	Quiz #17
5.07.26	Sections 15.8, 15.9	Section 15.8, 15.9	Quiz #18
5.12.26	Review		
5.14.26	Exam 3: Chapter 15		
5.19.26	Sections 16.1, 16.2	Section 16.1, 16.2	Quiz #19
5.21.26	Sections 16.3, 16.4	Section 16.3, 16.4	Quiz #20
5.26.26	Sections 16.5, 16.6	Section 16.5, 16.6	Quiz #21
5.28.26	Review		
6.02.26	Exam 4: Chapter 16.1 – 16.6		
6.04.26	Chapters 16.7, 16.8	Section 16.7, 16.8	Quiz #22
6.09.26	Review		
6.11.26	Final Exam: Cumulative		

Subject to change without prior notice