Thank you for choosing IVC! We are so happy to join you in your educational journey.

Basic Course Information

Semester:	**Spring 2024**	Instructor Name:	**Mardjan Shokoufi**
Course Title & #:	***MATH 192 Calculus I***	Email:	**mardjan.shokoufi@imperial.edu**
CRN #:	20540	Webpage	**None**
Classroom:	**2722**	Office #:	**2762**
Class Dates:	**Feb 12-June 6**	Office Hours:	**M 1:15-2:30 pm via zoom** **T 5:00-5:45 room 2762** **W 10:15-11:30 pm via zoom** **TH: 5:00-5:45 room 2762** **(zoom meeting code on canvas shell)**
Class Days:	Tuesdays and Thursdays	Office Phone #:	**(760)355-6401 NOTE: for Spring, I will be physically in my office on T and TH only and will have access to my office phone on those days.**
Class Times:	**6-8:30 pm**	Emergency Contact:	**Division secretary: Ms. Silvia Murray** **silvia.murray@imperial.edu**
Units:	**4**	Class Format:	**Face to Face, In person on campus**

Course Description

A first course in differential and integral calculus of a single variable: functions; limits and continuity; techniques and applications of differentiation and integration; Fundamental Theorem of Calculus. Primarily for Science, Technology, Engineering & Math Majors. (C-ID: MATH 210) (CSU, UC credit limited. See a counselor.)

Course Prerequisite(s)

MATH 190 - or equivalent with a grade of "C" or better, or appropriate placement as defined by AB705.

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. Compute the limit of a function at a real number
2. Determine if a function is continuous at a real number
3. Find the derivative of a function as a limit
4. Find the equation of a tangent line to a function
5. Compute derivatives using differentiation formulas
6. Use differentiation to solve applications such as related rate problems and optimization problems
7. Use implicit differentiation
8. Graph functions using methods of calculus
9. Evaluate a definite integral as a limit
10. Evaluate integrals using the Fundamental Theorem of Calculus
11. Apply integration to find area

Textbooks & Other Resources or Links

Need to purchase: Stewart, James. 2021. *Calculus: Early Transcendentals*; 9th edition, Brooks/Cole; ISBN: 9780357022269

There are many free good resources online for additional examples to help you with your studies, if not sure where to look for please ask me.

Course Requirements and Instructional Methods

Material needed: textbook, paper, pen, pencil, highlighter, scientific calculator to be used on some, not all tests.
Note: I do suggest a binder with paper or a notebook dedicated just to this class, as your daily quizzes will be open notes.

Course setting:
We will cover chapters 2-5 See the attached calendar for detailed information.

This course is designed to have you learn facts while gaining an appreciation of the power of mathematics and getting ready for your future courses in this field and how to apply the subject to other fields such as physics, engineering and chemistry. My responsibility is to do my best to be an effective guide, while you are responsible to make a commitment to learning and keeping up with the daily work. Remember mathematics is learned through active participation.

On daily basis you need to:
- Use provided lectures and book to study the day's topics and take notes.
- Work on the assignments.
- Know the pre-requisite topics learned in previous courses such as but not limited to finding common denominator, factoring, working with trigonometric functions and trigonometric identities, performing various operations with logarithmic and exponential functions and such or ask me during my office hours or tutors for help if need a refresher.

<u>**Out of Class Assignments:**</u> 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 <u>and</u> two (2) hours of out-of-class time per week over the span of a 16-week semester. WASC has adopted a similar requirement.
For this class that means approximately 12 hours of studying, working on assignments and reviewing for the tests <u>per week as this is a 16-week class.</u>

Course Grading Based on Course Objectives

Daily Quizzes* @ 5 points each**	**100**	
3 Tests **@100 points each**	**300**	(See the attached calendar for dates)
Cumulative Final* @ 200 points**	**200**	(See the attached calendar for date)

<div align="center">

TOTAL   600
</div>

*Daily quizzes are open notes (a physical binder or notebook, **not in electronic format**) and based on HW and lecture notes. **The notes in your notebook need to be all your own work and need to be handwritten.**

** Daily quizzes on almost every class meetings.

You need to be present in class for daily quizzes, if you are absent, arrive late or leave the class early then there is no make-up given if you are not present in the class while quiz is administered.

Any extra quizzes taken, or extra points earned will count as extra credit.

*** Tests and the final exam are closed book, closed notes, no formula sheet allowed, and mostly no calculator allowed.

Grading Scale: The standard grading scale will be used: 90%=A, 80%= B, 70%-C, 60%=D, less than 60% will result in the grade of F.

> **540-600   points = A**
> **480-539   points = B**
> **420-479   points = C**
> **360-419   points = D**
> ** 0-359   points = F**

Course Policies

Class Rules:
1. HW is assigned from your textbook. The daily quizzes, tests and final exam are similar to lectures and HW questions.
2. **No** make-up test and no make-up Earn Up to 50% test will be given. If one test is missed the percentage of final will replace that one missed test. If a student misses more than one tests, then only for one test the final percentage will be replaced and the others will be scored as zero.
3. There is **no make-up for Final exam**.
4. **Earn Up to 50%** test: are available for test 1, 2 and 3 only. Review and Improve Test Score: For students who have taken the test on the scheduled date and for some reason or another are not happy with their test score, they may take a new test after a week of studying and reviewing the material covered on the test in order to improve their test score where they can earn up to 50% of points missed on their original test. This is a new test and students need to study and sign up to

take this test at the scheduled time that will be announced in the class. No make up test is allowed on these tests and student need to present at the scheduled time.

For example: if a student earned 76 on a test and study and do a Earn Up to 50%, and earn 88 on Earn Up to 50% then they earn 10.56 points added to their original test score of 76. (Easy proportion and calculation to set up to come up with 10.56). So basically, they go from a score of 76, C grade to a 86.56, B grade.

In order to take the Earn Up to 50% test, student need to attend tutoring for 4 hours during the time period after the initial test till the day of the Earn Up 50% test and have tutoring center document that , as well as redo every single problem on the test correctly on their own sheet of paper and turn it in on the day of Earn Up to 50% test.

5. Have paper, notebook, pen, pencil, and highlighter ready during study time.
6. It is the student's responsibility to drop or officially withdraw from the class.
(See IVC class schedule for dates).
7. It is **your responsibility** to take notes and be aware of deadlines and test dates.

Academic Honesty including using 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.

- **Academic honesty** in the advancement of knowledge requires that all students and instructors **respect the integrity of one another's work and recognize the importance 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 No make up to 50% test will be allowed on the test. 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 IVC General Catalog for more information on academic dishonesty or other misconduct. Acts of cheating include, but are not limited to, the following:
    - plagiarism
    - copying or attempting to copy from others during an examination or on an assignment.
    - communicating test information with another person during an examination
    - allowing others to do an assignment or portion of an assignment.
    - using a commercial term paper service.
    - Using AI to help you with assignments including tests.
    - Using cheat sheet, looking on electric devices (such as phone)

Attendance Policy

- **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 IVC 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.**

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	Tuesday	Thursday
1 Feb 13 and 15	Introduction, 2.1	2.2, 2.3
2 Feb 20 and 22	2.3, 2.4	2.5
3 Feb 27 and 29	2.6, 2.7	2.7, 2.8
4 Mar 5 and 7	2.8	3.1, 3.2
5 Mar 12 and 14	3.2, 3.3	**TEST 1**
6 Mar 19 and 21	3.3, 3.4	3.4, 3.5
7 Mar 26 and 28	3.5, 3.6	3.6, **Earn Up to 50%** for Test 1
8 Apr 9 and 11	3.7, 3.8	3.9, 3.10
9 Apr 16 and 18	3.10, 3.11	4.1
10 Apr 23 and 25	4.2	**TEST 2**
11 Apr 30 and May 2	4.3	4.4
12 May 7 and 9	4.5, 4.6	4.7, 4.8, **Earn Up to 50%** for Test 2
13 May 14 and 16	4.8, 4.9	5.1, 5.2
14 May 21 and 23	5.2, 5.3	**TEST 3**
15 May 28 and 30	5.4	5.5
16 June 4 and 6	Review, **Earn Up to 50%** for Test 3	**Final**

Tentative, subject to change without prior notice

Zoom meeting etiquettes: *Since we will be meeting online for some office hours, then make sure you have a space free of distraction during our meeting times, have your computer charged or charging, have your notebook, pen, pencils, and calculator handy.*

1) **Be RESPECTFUL**
   a. Your written, verbal, and non-verbal communications should be respectful and focused on the learning topics of the class.
2) **Find a QUIET LOCATION & SILENCE YOUR PHONE (if zooming)**
   a. People walking around and pets barking can be a distraction.
3) **EAT AT A DIFFERENT TIME.**
   a. Crunching food or chugging drinks is distracting for others.
   b. Synchronous zoom times are set in advance so reserve meals for outside class meetings.
4) **ADJUST YOUR LIGHTING SO THAT OTHERS CAN SEE YOU**
   a. It is hard to see you in dim lighting so find a location with light.
   b. If your back is to a bright window, you will be what is called "backlit" and not only is it hard on the eyes (glare), but you look like a silhouette.
5) **POSITION THE CAMERA SO THAT YOUR FACE AND EYES ARE SHOWING**
   a. If you are using the camera, show your face; it helps others see your non-verbal cues.
   b. You may be at home but meeting in pajamas or shirtless is not appropriate so dress suitably. Comb your hair, clean your teeth, fix your clothes, etc. before your meeting time to show self-respect and respect for others.
6) **Be READY TO LEARN AND PAY ATTENTION**
   a. Catch up on other emails or other work later.
   b. If you are Zooming, silence your phone and put it away.
   c. If you are in a room with a TV – turn it off.
7) **USE YOUR MUTE BUTTON WHEN IN LOUD PLACES OR FOR DISTRACTIONS**
   a. Pets barking, children crying, sneezing, coughing, etc. can happen unexpectedly. It's best if you conference in a private space, but if you can't find a quiet place, when noises arise **MUTE** your laptop.
8) **REMEMBER TO UNMUTE WHEN SPEAKING**
   a. Follow your instructor's directions about using the **"raise hand"** icon or chat function to be recognized and to speak, but make sure you have unmuted your device.
   b. Do not speak when someone else is speaking.
9) **REMAIN FOCUSED AND PARTICIPATE IN THE MEETING**
   a. Especially when the camera is on YOU, we can all see your actions. Engage in the meeting. Look at the camera. Listen to instruction. Answer questions when asked.
   b. Do not use the Zoom meeting to meet with your peers or put on a "show" for them.
10) **PAUSE YOUR VIDEO IF MOVING OR DOING SOMETHING DISTRACTING**
   Emergencies happen. If you need to leave the room or get up and move about, stop your video.