

Basic Course Information

Semester:	Spring 2016	Instructor Name:	Mardjan Shokoufi
Course Title & #:	Calculus	Email:	mardjan.shokoufi@imperial.edu
CRN #:	20134	Webpage (optional):	-
Classroom:	2725	Office #:	2762
Class Dates:	Feb 16- June 9, 2016	Office Hours:	M & W 9:05-10:05 a.m.; T & R 10:10-11:10 a.m.
Class Days:	TR	Office Phone #:	(760) 355-6401
Class Times:	7:30-10	Emergency Contact:	Department Secretary (760)355-6155
Units:	5		

Course Description

Concepts dealing with limits, continuity, differentiation and applications, integration and applications, Fundamental Theorem of Calculus, exponential and logarithmic functions, and other transcendental functions will be covered. (CSU) (UC credit limited. See a counselor.)

Prerequisite: MATH 190 with grade of C or better; or equivalent course, or appropriate placement

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. Be able to use substitution to find the anti-derivative of a composite function. (ILO2)
2. Demonstrate ability to anti-differentiate simple functions (ILO2)
3. Be able to set up and solve optimization problems of a single variable. (ILO1, ILO2, ILO4)
4. Be able to compute limits for simple functions. (ILO2)
5. Be able to apply the chain rule for a function of a single variable. (ILO2)

Course Objectives

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

1. Demonstrate skills in understanding the concept of limit and be knowledgeable in finding limits, including tangent lines and computing the limit of a function at a real number.
2. Determine if a function is continuous and differentiable at a real number.
3. Demonstrate an understanding and a working knowledge of the derivative, including finding the derivative of a function as a limit, finding equations of tangent lines, computing derivatives using differentiation formulas, using implicit differentiation, and solving related rate problems.

4. Demonstrate proficiency in problem solving when dealing with applications of differentiation, including optimization.
5. Demonstrate knowledge in anti-differentiation.
6. Demonstrate an understanding and a working knowledge of the definite integral, including the evaluation of definite integrals as limits, using integration to find area, and the evaluation of integrals using the Fundamental Theorem of Calculus.
7. Graph functions using methods of Calculus.
8. Demonstrate a thorough understanding of logarithmic and exponential functions, and their use in applications dealing primarily with growth and decay phenomena.
9. Demonstrate the ability to deal with trigonometric, inverse trigonometric and hyperbolic functions and many common applications thereof.

Textbooks & Other Resources or Links

R. Larson, and B. Edwards (2014). *Calculus* (10th/e). Brooks Cole Publishing.
ISBN: 978-1-285-05709-5

Course Requirements and Instructional Methods

Material needed: Textbook: R. Larson, and B. Edwards (2014). *Calculus* (10th/e), paper, pen, pencil, highlighter, graphing calculator and access to a stapler.

Course setting: 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. 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 materials to study the day's topics and take notes as needed.
- Work on the assignments.
- Know and attain the pre-requisite topics learned in previous courses.

Class Rules:

1. Late assignment is **not** accepted
2. **No** make-up test will be given
3. Bring your book, binder, pen, pencil, and highlighter to the class every day.
4. It is the student's responsibility to drop or officially withdraw from the class.
(See IVC class schedule for dates).
5. It is **your responsibility** to take notes and make copies of the notes from the days you have been absent.
6. Regular attendance in all classes is expected of all students.

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.

For this class that means approximately 10 hours of studying, working on assignments and reviewing for the tests outside the class time.

Course Grading Based on Course Objectives

11 Classwork/Homework sets* @ 10 points each	100 (See the attached calendar for dates)
4 Tests @100 points each	400 (See the attached calendar for dates)
Final @ 200 points	200 (See the attached calendar for date)
TOTAL	700

*Each set would consist of 50 to 150 exercises, depending on the material. 1 HW will count as extra credit.

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.

630-700 points = A

560-629 points = B

490-559 points = C

420-489 points = D

Zero –419 points = F

Attendance

- A student who fails to attend the first 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 the [IVC General Catalog](#) for details.
- Students who fail to complete required activities for two consecutive assignments may be considered to have excessive absences and may be dropped.
- Absences attributed to the representation of the college at officially approved events (conferences, contests, and field trips) will be counted as ‘excused’ absences.

Classroom Etiquette

- Electronic Devices: Cell phones and electronic devices must be turned off and put away during class, unless otherwise directed by the instructor.
- Food and Drink are prohibited in all classrooms. Water bottles with lids/caps are the only exception. Additional restrictions will apply in labs. Please comply as directed by the instructor.
- Disruptive Students: Students who disrupt or interfere with a class may be sent out of the room and told to meet with the Campus Disciplinary Officer before returning to continue with coursework. Disciplinary procedures will be followed as outlined in the [General Catalog](#).
- Children in the classroom: Due to college rules and state laws, no one who is not enrolled in the class may attend, including children.

Online Netiquette

- What is netiquette? Netiquette is internet manners, online etiquette, and digital etiquette all rolled into one word. Basically, netiquette is a set of rules for behaving properly online.
- Students are to comply with the following rules of netiquette: (1) identify yourself, (2) include a subject line, (3) avoid sarcasm, (4) respect others' opinions and privacy, (5) acknowledge and return messages promptly, (6) copy with caution, (7) do not spam or junk mail, (8) be concise, (9) use appropriate language, (10) use appropriate emoticons (emotional icons) to help convey meaning, and (11) use appropriate intensifiers to help convey meaning [do not use ALL CAPS or multiple exclamation marks (!!!)].

Academic Honesty

Academic honesty in the advancement of knowledge requires that all students and instructors respect the integrity of one another's work and recognize the important 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 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 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) using a commercial term paper service.

Additional Student Services

Imperial Valley College offers various services in support of student success. The following are some of the services available for students. Please speak to your instructor about additional services which may be available.

- **[Blackboard Support Site](#)**. The Blackboard Support Site provides a variety of support channels available to students 24 hours per day.
- **[Learning Services](#)**. There are several learning labs on campus to assist students through the use of computers and tutors. Please consult your [Campus Map](#) for the [Math Lab](#); [Reading, Writing & Language Labs](#); and the [Study Skills Center](#).
- **[Library Services](#)**. There is more to our library than just books. You have access to tutors in the [Study Skills Center](#), study rooms for small groups, and online access to a wealth of resources.

Disabled Student Programs and Services (DSPS)

Any student with a documented disability who may need educational accommodations should notify the instructor or the [Disabled Student Programs and Services](#) (DSP&S) office as soon as possible. The DSP&S office is located in Building 2100, telephone 760-355-6313. Please contact them if you feel you need to be evaluated for educational accommodations.

Student Counseling and Health Services

Students have counseling and health services available, provided by the pre-paid Student Health Fee.

- **[Student Health Center](#)**. A Student Health Nurse is available on campus. In addition, Pioneers Memorial Healthcare District provide basic health services for students, such as first aid and care for minor illnesses. Contact the IVC [Student Health Center](#) at 760-355-6128 in Room 1536 for more information.
- **[Mental Health Counseling Services](#)**. Short-term individual, couples, family, and group therapy are provided to currently enrolled students. Contact the IVC [Mental Health Counseling Services](#) at 760-355-6196 in Room 2109 for more information.

Student Rights and Responsibilities

Students have the right to experience a positive learning environment and to due process of law. For more information regarding student rights and responsibilities, please refer to the IVC [General Catalog](#).

Information Literacy

Imperial Valley College is dedicated to helping students skillfully discover, evaluate, and use information from all sources. The IVC [Library Department](#) provides numerous [Information Literacy Tutorials](#) to assist students in this endeavor.

Anticipated Class Schedule/Calendar

WEEK	DAY	SCHEDULE
1	T 2/16	Intro, 1.1, 1.2
	R 2/18	1.3-1.4
2	T 2/23	1.5
	R 2/25	HW 1, 2.1-2.2
3	T 2/30	2.3
	R 3/2	2.4
4	T 3/8	HW 2, 2.5
	R 3/10	2.5 - 2.6
5	T 3/15	2.6
	R 3/17	Review
6	T 3/22	T 1, HW 3
	R 3/24	3.1 - 3.2
7	T 4/5	HW 4, 3.3 – 3.4
	R 4/7	3.5
8	T 4/12	T 2, HW 5
	R 4/14	8.7
9	T 4/19	HW 6, 3.7
	R 4/21	3.8-3.9
10	T 4/26	4.1-4.2
	R 4/28	T 3, HW 7
11	T 5/3	4.2-4.3
	R 5/5	4.4
12	T 5/8	HW 8, 4.5
	R 5/10	5.1 - 5.2
wi13	T 5/15	5.3-5.4
	R 5/17	HW 9, 5.4-5.5
14	T 5/24	5.6-5.7
	R 5/26	T 4, HW 10
15	T 5/31	5.7-5.8
	R 6/2	Review
16	T 6/7	FINAL, HW 11
	R 6/9	FINAL, HW 11

Deadline to drop

Deadline to drop

*****Tentative, subject to change without prior notice*****

Important notes

- Please note that during the spring semester I am on campus and have office hours M-TH, and I am not on campus on Fridays. In addition; I am available by e-mail: mardjan.shokoufi@imperial.edu or voice mail: (760)355-6401, and will respond within 24 hours Monday- Wednesday, and for messages left on Thursday after my office hours I will respond on the following Monday. During the holidays, please add an extra day for response time as I will not be on campus on those days. So please stay in touch when you need assistance or when you have a question; *I am here to help.*
- When leaving voice messages or sending e-mail make sure you state your name clearly and the class you are taking. If leaving voice mail and want me to call you back, make sure to state your number clearly. Remember that I have more than 150 students every semester and I need clear information on your name, class you are taking with me, so I can know who is contacting me and hence provide the right assistance.