IMPERIAL VALLEY COLLEGE

Note to Instructor: Replace the placeholder text beneath the headings with the appropriate information for your course. Please note that all sections, with the exception of "Other Course Information," are required elements.

Basic Course Information

Semester:	FALL 2022	Instructor Name:	ERIC LEHTONEN
Course Title & #:	M190 PRECALCULUS	Email:	eric.lehtonen@imperial.edu
CRN #:	10061	Webpage (optional):	
Classroom:	2721	Office #:	2763
Class Dates:	8/16 - 12/8	Office Hours:	TR 11:45 - 12:45
Class Days:	TR	Office Phone #:	(760)355-6522
Class Times:	1:00 - 3:30	Emergency Contact:	(619)517-3742
Units:	5	Class Format:	LECTURE

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) and/or Corequisite(s)

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

Student Learning Outcomes

1.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)

MEASURABLE COURSE OBJECTIVES AND MINIMUM

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

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Textbooks & Other Resources or LinksStewart, James 2015. *Calculus: Early Transcendentals* 8th. Brooks/Cole ISBN: 9781285741550.

Course Requirements and Instructional Methods

*[*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.

Thus a traditional lecture class.

Show up

Study

Pass

Course Grading Based on Course Objectives

Tests - 60%. There will be 4 tests. The dates will be included in the class schedule.
Final - 30%. There will be a **comprehensive final exam.**
Quizzes - 10%. There will be frequent quizzes.

Course Policies

Don't cheat.

Other Course Information

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.

CANVAS LMS. Canvas is Imperial Valley College's main Learning Management System. To log onto Canvas, use this link: Canvas Student Login. The Canvas Student Guides Site provides a variety of support available to students 24 hours per day. Additionally, a 24/7 Canvas Support Hotline is available for students to use: 877-893-9853.
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.

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 1
8/16 **Introduction**,2.2

8/18 2.3

WEEK 2
8/23 2.4

8/25 2.5,2.6
WEEK 3
8/30 2.1,2.2
9/2 2.3,2.4
WEEK 4
9/8 2.7,2.8
9/10 REVIEW
WEEK 5
9/15 TEST 1
9/17 3.1,3.2
WEEK 6
9/22 **3.3**

9/24 **3.4**
WEEK 7
9/29 3.5,3.6
10/1 3.7

WEEK 8

10/6 3.9

10/8 **3.10,3.11**

WEEK 9

10/13 **REVIEW**

10/15 TEST 2

WEEK 10

10/20 4.1,4.2

10/22 4.3

WEEK 11

10/27 4.4

10/29 4.5

WEEK 12
11/3 4.7

11/5 4.8,4.9

WEEK 13

11/10 REVIEW

11/12 **TEST 3**

WEEK 14

11/17 5.1,5.2

11/19 5.3,5.4

WEEK 15 TURKEY WEEK

WEEK 16

12/1 5.5

12/3 **TEST 4**

WEEK 17

12/8 **REVIEW**

12/10 **FINAL EXAM**

*****Subject to change without prior notice*****