IMPERIAL VALLEY COLLEGE

Basic Course Information

Semester:	**Spring 2025**	Instructor Name:	**Zhong Hu**
Course Title & #:	**Math 194**	Email:	**Zhong.hu@imperial.edu**
CRN #:	**20780**	Webpage (optional):	
Classroom:	**2723**	Office #:	**2760.1**
Class Dates:	**2/10/25 – 6/6/25**	Office Hours:	**MW: 1 pm to 2:15 pm (in zoom)** **TR: 9:25 am to 10:10 am (In my office 2760.1)**
Class Days:	**MW**	Office Phone #:	**760-355-6355**
Class Times:	3:45 pm to 6:15 pm	Emergency Contact:	**Email me**
Units:	4	Class Format/Modality:	In Person on Campus

Course Description

A second course in differential and integral calculus of a single variable: integration; techniques of integration; infinite sequences and series; polar and parametric equations; applications of integration. Primarily for Science, Technology, Engineering & Math Majors. (CID: MATH 220) (CSU/UC)

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

MATH 192 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.

Course Objectives

Upon satisfactory completion of the course, students will be able to:
1. Evaluate definite and indefinite integrals using a variety of integration formulas and techniques.
2. Apply integration to areas and volumes, and other applications such as work or length of a curve.
 3. Evaluate improper integrals.
4. Apply convergence tests to sequences and series.
5. Represent functions as power series.
6. Graph, differentiate and integrate functions in polar and parametric form.

Textbooks & Other Resources or Links

 Stewart, James 2021. Multivariable Calculus 9th. Brooks/Cole e-book ISBN: 9780357687901 or hard copy ISBN: 9781337613927

Course Requirements and Instructional Methods

Homework

Homework will be assigned at each class meeting. They should be on stapled arranged in the correct order. Please write your name and section number on the top right corner. It is your responsibility to check the homework assignment even if you are absent.

Homework will be due by the date of each test.

Quiz/Pop-quiz/Group Work

A quiz or group work may be given at any time during any class period. It may not be announced. The number of quizzes or group work in the semester will be instructor's discretion. One of the lowest scores will be dropped.

Tests

There will be three tests. Most of the questions on these tests will require showing a significant amount of work. A correct answer with insufficient work will receive partial credit or no credit.

Final Exam

At the end of the semester, a COMPREHENSIVE/CUMULATIVE Final Exam will be given. If you miss the final, it will be recorded as a zero.

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

Grading Policy

(Pop) Quiz /Group Work	10%
Homework	10%
Tests	60%
Final Exam	20%
Total	100%

Grading Scale for determining the final grade

A: 90%-100%
B: 80%-89%
C: 70%-79%
D: 60%-69%
F: 0%-59%

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.

Course Policies

Attendance and drop Policy You must attend the first day of class or you will be dropped from the course as a 'No Show.' Should readmission be desired, the student's status will be the same as that of any other student who desires to add a class. 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. It is the student's responsibility to drop or officially withdraw from the class

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	TOPIC
1	Course Syllabus 6.1
2	6.2, 6.3
3	6.4, 6.5
4	7.1, 7.2
5	7.3, Review, Test 1
6	7.4, 7.5, 7.7
7	7.8, 8.1
8	8.2, 10.1
9	10.2, 10.3
10	Review, Test 2
11	No Class
12	10.4, 10.5
13	11.1, 11.2, 11.3
14	11.3, 11.4
15	11.5, 11.6, 11.7
16	11.8, 11.9, Test 3
17	Final Exam

Subject to change without prior notice

Updated 6/2023