



## Basic Course Information

Semester:	<b>Spring 2026</b>	Instructor Name:	<b>Humberto Pena</b>
Course Title & #:	<b>Analytic Geometry and Calc II (Math 194)</b>	Email:	<b>humberto.pena@imperial.edu</b>
CRN #:	<b>20780</b>	Webpage (optional):	<b>N/A</b>
Classroom:	<b>2725</b>	Office #:	<b>N/A</b>
Class Dates:	<b>Feb 17 – Jun 12</b>	Office Hours:	<b>Wednesdays, 4:45 PM – 5:45 PM</b>
Class Days:	<b>M/W</b>	Office Phone #:	<b>N/A</b>
Class Times:	<b>06:00 PM – 08:30 PM</b>	Emergency Contact:	<b>Email</b>
Units:	<b>4</b>	Class Format/Modality:	<b>In person</b>

## 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. (C-ID: MATH 220) (CSU/UC)

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

**PREREQUISITES:** 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 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



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## Textbooks & Other Resources or Links

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

## Course Requirements and Instructional Methods

**The classroom:** Classroom time will consist of lecture and select practice exercises. I highly encourage you to participate in class and ask questions, no matter how trivial it seems. The course will follow a particular pace to make sure we cover everything in class, but I am more than willing to slow down and re-explain or re-do an example if asked to. All three exams and the final will be taken in person and will be graded no later than two weeks after the exam has been completed.

**Outside the classroom:** I will be assigning homework as preparation for your exams. You will also be expected to study accordingly for your exams. If you feel like you could use some extra help, I invite you to attend my office hours.

## Course Grading Based on Course Objectives

The overall course will consist of 10 Quizzes, four exams, and one cumulative final exam, which will be weighed as follows:

Quizzes	15%
Exams	60% (4 exams, 15% each)
Final Exam	25%

Once everything has been graded, the grade distribution will be as follows:

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

## 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:** All students are expected to attend every class session. Incidentally, you must attend the first meeting of the course. For those who are enrolled but not present on the first day of class, as per the college's policy, will be dropped from the class. Constant absences are also grounds for dropping you from the course. If



you have an emergency, please email me or let me know somehow to take it into consideration. **Long story short, come to class!**

**Academic honesty:** You are expected to show your own work. Cheating is not tolerated by Imperial Valley College under any circumstance. Anyone caught cheating will receive a zero on the assignment/exam and will be reported to the Campus Disciplinary Officer who may file an incident report. Multiple instances of cheating will result in a failing grade (F) 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. **Another long story short, don't cheat!**

**Classroom behavior:** You are expected to respect everyone around you, including your professor(s), fellow peers, and the classroom environment. Instances of disruptive behavior will result in me asking you to leave the classroom for the day. Multiple instances will result in filing a report with the Campus Disciplinary Officer.

### Other Course Information

**Homework:** I will assign homework not for grading purposes, but to prepare you for your exams. Solutions to the homework exercises will be posted one week after being “assigned”. It is your own responsibility to practice the material seen in lecture. I highly encourage you to form study groups with your peers.

**Exams:** Once you receive your exam, you cannot access your phone or any electronic device. Furthermore, you will not be able to take any bathroom breaks. Please prepare accordingly!

### 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	Important Dates
Week 1 Feb 17 – 20	Syllabus, integration review, 6.1	
Week 2 Feb 23 – 27	6.2, 6.3, 6.4	
Week 3 Mar 02 – 06	Review, Exam 1	Exam 1 on 03/04
Week 4 Mar 09 – 13	7.1, 7.2, 7.3	
Week 5 Mar 16 – 20	7.4, 7.5, 7.7**	
Week 6 Mar 23 – 27	7.8, 8.1, 8.2**	
Week 7 Mar 30 – Apr 03	Review, Exam 2	Exam 2 on 04/01



Week	Topic	Important Dates
Week 8 Apr 06 – 10	<b>No classes</b> (Spring recess)	
Week 9 Apr 13 – 17	10.1, 10.2	
Week 10 Apr 20 – 24	10.3, 10.4	
Week 11 Apr 27 – May 01	Review, Exam 3	Exam 3 on 04/29
Week 12 May 04 – 08	11.1, 11.2	
Week 13 May 11 – 15	11.3, 11.4, 11.5	
Week 14 May 18 – 22	11.6, 11.8, 11.9	
Week 15 May 25 – 29	11.9, 11.10	No class on 05/25
Week 16 Jun 01 – 05	Review, Exam 4	Exam 4 on 06/03
Week 17 June 08 – 12	Cumulative review, Final Exam	Final Exam on 06/10

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