

# MATH 143: CALCULUS III

Fall 2020

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**Course Web Page:** [https://web.calpoly.edu/~echarala/teaching/143/math\\_143\\_F20/](https://web.calpoly.edu/~echarala/teaching/143/math_143_F20/)

## Class Meetings:

- Section 1 (MTRF): 07:10-08:00am
- Section 3 (MTRF): 08:10-09:00am

**Office Hours:** TR 9:15-10:30am and 1:00-2:15pm, or by appointment.

**Access to the course:** This quarter, we will be using Zoom. Please, login to:

<https://calpoly.zoom.us/>

using your Cal Poly credentials. Note that the Zoom ID number has already been sent to you in order to attend classes and office hours. In addition, a meeting password is required and has been sent to you as for an extra layer of security.

## Required Textbook:

- *Calculus (Eighth Edition)*, Authors: James Stewart, Publisher: Cengage Learning, 2016 (ISBN: 978-1-285-74062-1)

**Objectives:** In Math 141 and Math 142 (Calculus I and II, respectively), we studied limits, continuity, differentiation and integration of functions of one (independent) variable. In this course, we will explore more advanced topics such as **calculus in polar coordinates**, **sequences** and **series** including **Taylor series** and applications (thereof), **vector calculus** and operations as well as **curves in 2- and 3-dimensional spaces**. Besides the importance of the topics that we will cover, this course sets the stage for your subsequent coursework in Math 241 (Calculus IV). A detailed course outline containing the learning objectives for this class may be found at

<https://content-calpoly-edu.s3.amazonaws.com/math/1/documents/143.pdf>

**Class Material by Section:** During the quarter, we will cover most of Chapters 10–13 of the textbook:

- Chapter 10: 10.1–10.4
- Chapter 11: 11.1–11.10
- Chapter 12: 12.1–12.5
- Chapter 13: 13.1–13.4

A tentative schedule is posted on the course web page under “Syllabus and Tentative Schedule”.

**Prerequisites:** A grade of C- or better in Math 142 or consent of the instructor.

**Homework, Quizzes and Exams:** In every Mathematics course, it is extremely important you put your best effort towards solving problems and producing high-quality homework. Alongside this, it is also important to learn how to communicate your mathematical reasoning.

There will be online homework assignments and bi-weekly quizzes in WebAssign: <https://www.webassign.net/>. A **class key** was sent to you that you should use to have access. **No late homework and quizzes will be accepted but your lowest score will be dropped.** Although the homework is online this quarter, I would strongly recommend you make copies of your solutions and keep them in a binder so that you may easily reference that when you are studying for an exam.

Of course, struggling through a question in the homework is not something unusual. Mathematics is all about **study** and **practice** and the only way to learn is for you to work through any difficulties. With that said, and before

you make an attempt to solve the homework problems, make sure that you write the accompanying theory down on a piece of paper as many times as possible until you master it. Then, come back to the problems in the homework assignment and attempt to solve them. Such a way of studying will not only help you to create your own study guide but to understand the material in depth. Keep in mind that in order you to get the best grade you can, the first step is to do every assignment to the fullest extend of your ability. However, if you still need help, I strongly encourage you to make use of my office hours (think of them as free tutoring).

There will be **two take-home online exams** and **one cumulative take-home written final**. For their schedule, see below the “Important Dates” section of this document. Before **the midterm exams**, I will hold outside the regular class time review sessions in Zoom according to:

Review session for midterm #1 ..... Tuesday, October 6, 1:00-2:15pm  
 Review session for midterm #2 ..... Tuesday, November 3, 1:00-2:15pm  
 Review session for final ..... Tuesday, November 24, 1:00-2:15pm

In all review sessions, we will be solving practice problems and past exams. Most importantly, please collect any of your questions and I would be more than happy to answer them! In the realm of all exams, make sure you download the **review notes** and **past exams** from the course web page under “Review notes and Practice Exams”.

**Note that no makeup midterms will be given.** In addition, further details about the policies of the final exam can be found by visiting the link:

<https://academicprograms.calpoly.edu/content/academicpolicies/final-exams>

**Grading Policy and Exams:** Your final grade in this course is computed according to:

Homework .....	25%
Quizzes .....	5%
Midterm #1 .....	20%
Midterm #2 .....	20%
Final Exam .....	30%

**Important Dates:**

Midterm #1 ..... Thursday, October 8  
 Midterm #2 ..... Thursday, November 5  
 Final Exam (Section 1) ..... Wednesday, December 2  
 Final Exam (Section 3) ..... Friday, December 4

**Exams and Class Policies:**

- Exams are primarily based on the material we cover in class, homework and quizzes.
- Absolutely no formula sheets, class notes and calculators are allowed during midterm and final exams.
- Please go through the cheating and plagiarism procedures by clicking [here](#).
- Learning and memorizing formulas takes time. Do not postpone this until the last minute.
- **Attendance is mandatory.** However, an **excused absence** can be allowed only if the reason for your absence falls into any of the categories listed in the following page:

<https://academicprograms.calpoly.edu/content/academicpolicies/class-attendance>

Please inform me as soon as possible if you are seeking to make up missed work pursuant to the excusable reasons listed in the url above.

**Students with Disabilities:** The University provides disability-related support services to qualified students through the Disabilities Resource Center (DRC). If you have a disability for which you are or may be requesting an accommodation, you are encouraged to contact both me and the DRC (124-119) at (805) 756-1395, as early as possible in the term. In addition, and for your convenience, their website is <https://drc.calpoly.edu/>. Note that use of DRC services including testing accommodations requires prior authorization by the DRC and compliance with approved procedures. **Make sure you initiate any needed arrangements well in advance of an exam date.**

**Diversity and Inclusion:** I am fully committed to an academic environment that is free of bias against any group and I firmly believe in the value of diversity in people and ideas. My ultimate goal is to establish that this class is a welcoming environment to every-one regardless of gender identity, sexual orientation, race, ethnicity, or religious identity. The University and I do not tolerate discrimination. Please feel comfortable coming to me or an administration if at any point you ever feel uncomfortable for any reason.