

## MATH 103 - INTRODUCTION TO CALCULUS 2021 SUMMER SESSION II

### What is MATH 103?

MATH 103 is most closely aligned with a traditional first-semester calculus course. Topics include a review of algebra and pre-calculus, limits, derivatives, applications of the derivative, and an introduction to integration. Students who have successfully completed a pre-calculus course are ready for this course.

### Who am I?

My name is Connor Cassady, he/him/his, (cassadyc@sas.upenn.edu), I am a fourth year Ph.D. student in the math department at Penn, and I am excited to lead you through this learning journey.

### What Learning Materials are Needed?

All the resources that you need will be delivered electronically through Canvas. In particular, **you do not need to purchase a textbook, electronic online access code, calculator, or other similar items.** If you have Internet access and a good supply of paper and pens/pencils, you have all the materials that you'll need.

### What are the Main Course Activities?

**Asynchronous Lecture:** Relatively short, pre-recorded lectures, covering the topics for the day. Optional videos exploring example problems will also be posted. Ideally, you will watch these before synchronous meetings.

**Class Meetings on Zoom:** During these synchronous meetings, I will clear up any potential sticking points of the day's lecture, but these will mainly serve as problem-solving sessions, both as a whole class, and in small breakout rooms. On Mondays and Wednesdays, we will meet for 75 minutes, from 10-11:15am EST. (Note: this is not the full time listed for the course). I will stay on the Zoom call after class if there are any questions. This extra time will serve as my office hours. On Tuesdays and Thursdays, you will take a quiz, and we will therefore meet for longer periods of time on these days. On non-quiz days, we will typically cover 2 sections of material, and on quiz days, we will typically cover 1 section of material.

Time spent as a whole (i.e., not in breakout rooms, after class, etc.) will be recorded and uploaded for you to go back and watch if you would like. These recordings will be used for our class only, and will not be used in any other context.

**Homework:** One problem set will be due per week, graded mainly for completion and partially for accuracy (see "How is the Grade Computed?"). These problems will be on material covered from Monday - Thursday, and will be due Sundays by 11:59pm EST. You will be required to submit individual work for each problem set, but collaboration with fellow classmates for these assignments is allowed, and highly encouraged. With that in mind, the problems from the problem set will be the ones you work on in breakout rooms.

**Quizzes:** 8 total quizzes, each covering roughly 3-5 sections of material, 40 minutes each, taken during our synchronous meetings on Tuesdays and Thursdays. 4 question quizzes with a data entry to each question and 5 points partial credit will be given based on work shown. You will digitize your work and upload it as a single PDF file. No quiz will include material covered during that day of lecture.

On each quiz, you are allowed to use the front and back sides of a single 8.5 inch x 11 inch sheet of paper for handwritten notes. No other materials or resources (books, calculators, websites, etc.) are allowed.

The fourth and eighth quizzes will be "Redo Quizzes". These will contain the material covered in the previous three quizzes and will replace the lowest score of the three previous quizzes if this replacement benefits you.

**Final Exam:** On the last day of class (August 5), we will have an in class, 8 question, 90 minute exam. Each question will have a data entry on Canvas, and you will digitize and upload your work as a single PDF file.

### How is the Grade Computed?

**25% Homework.** A total of 4 problem sets, each due by 11:59pm EST on Sundays. These will be graded mainly for completion, with some selected problems graded for accuracy.

**60% Quizzes.** Each quiz will consist of four questions, each graded out of 5 points with partial credit based on work shown. The fourth and eighth quizzes will be Redo Quizzes, and will replace the lowest grade of the previous three quizzes, if this replacement benefits you.

**15% Final Exam.** This will be a comprehensive exam, covering all material discussed throughout the course.

I will not decide cutoffs for letter grades in this class until after everything has been graded. In particular, I do not “curve up” or “curve down” because there are no predetermined cutoffs to curve up or down from. I always take the difficulty of the assessments into account when deciding what point totals correspond to what letter grades.

**Missed Assignments.** If you will miss a quiz, homework, exam, etc., please let me know in writing as soon as possible. I will decide what qualifies as a valid reason to miss an assignment, and will determine how missed assignments are to be made up, consistent with the University’s policy.

**Academic Integrity.** The definition of academic integrity is simple and broad: *do not take credit for others’ work*. This applies to all assignments.

Infractions of academic integrity will be addressed through the formal University procedure.

### Your Rights as a Learner

In this course, you have the following rights:

- to be confused
- to make a mistake and to revise your thinking
- to ask questions
- to point out my mistakes

**University Policies.** In addition to the above rights, the course will be administered in accordance with all University policies, rules, and regulations.

**Timezone/Local Situation Accommodation.** If you do have any issues related to your physical location, let me know and we’ll see what we can do.

**Accommodation for Students with Disabilities.** Reasonable accommodations will be made for students with verifiable disabilities. In order to take advantage of available accommodations, students must register with the Office of Student Disabilities Services.

**Religious Accommodations.** If you cannot participate in a class activity or assignment due to questions of religion or creed, please let me know, in writing, as soon as possible. Accommodations will be made pursuant to University policy.

### Important Dates/Course Summary

Thursday, July 1	Classes Begin
Monday, July 5	No Classes (University Holiday)
Tuesday, July 6	Practice Quiz
Thursday, July 8	Add/Drop (No Financial Obligation) Quiz 1
Sunday, July 11	Homework 1 Due
Tuesday, July 13	Quiz 2
Thursday, July 15	Quiz 3
Friday, July 16	Drop with 50% financial obligation Grade Status Deadline

Sunday, July 18	Homework 2 Due
Tuesday, July 20	Redo Quiz 1
Thursday, July 22	Quiz 4
Sunday, July 25	Homework 3 Due
Tuesday, July 27	Quiz 5
Thursday, July 29	Quiz 6
Friday, July 30	Withdraw Deadline
Sunday, August 1	Homework 4 Due
Tuesday, August 3	Redo Quiz 2
Thursday, August 5	Final Exam