

Introduction to Calculus, Fall 2019

Instructor

Patrick Martin (he, him)

Office: Krieger 200

Email: mmart152@math.jhu.edu

Website: <http://www.math.jhu.edu/~mmart152/>

Lectures

MFW 9:00 - 9:50 AM in Krieger 204

TA Sections

Tuesday 1:30 - 2:20 PM in Krieger 204

Sections meet once per week and depart from the typical lecture structure of class. They are a place to review, study, and work on current assignments with other students, as well as to practice and review techniques learned in lecture. I will also be there to answer questions and go over any requested material. Each section will begin with an open book, group, reading quiz. This is meant to accomplish a few goals:

- Incentivize reading along in the textbook
Learning how to read math textbooks is crucial for building independence in math courses.
- Promote understanding of basic concepts
Mathematics relies heavily on precise definitions. It is much easier to understand the concepts in these courses if you are comfortable with the vocabulary your instructors and textbooks will use.
- Practice defending your answer, mathematically
There will inevitably be some questions in which students disagree on the answer. Being able to form a logical defense of your position and convince others, or to recognize where the flaw in your logic is, will help reinforce your understanding of the concepts in this course.

These quizzes will count for 5% of the final grade.

Office Hours

Office hours will be determined in the first week based on everyone's schedules, and will take place in Krieger 200.

Textbook

College Algebra and Trigonometry, by Mark Dugopolski, 6th edition.

Homework

Homework will be due each Friday, unless otherwise noted. Graded assignments will be returned in section.

Each assignment will have two parts: a set of practice questions, and a conceptual question. The practice questions will be odd-numbered questions from the textbook, meaning that the answers will be in the back of the book: *an incorrect answer will receive zero points*, unless the student remarks that they know that their answer is incorrect. Failure to show sufficient work (to prove that the answers were not simply copied) will also result in reduced points.

The conceptual question will require thought of how the concepts learned so far apply to a problem. There will be a couple choices each week for this problem; students will only need to complete one. These will be graded thoroughly.

Homework will count for 15% of the total grade. There will be about 12 homework assignments total. The assignment with the lowest grade will be dropped (except in certain circumstances - see Academic Honesty below).

Calculators can be a useful tool for checking your work, however they should not be necessary to complete homework assignments. Calculators will not be allowed on exams.

Exams

There will be three exams: two midterms and a final. The midterms are non-cumulative, in-class exams each counting for 30% of the final grade. The final exam is **optional**, and will be divided into two parts, representing the material covered by the two midterms. Your midterm grades will be the higher of your grade on the midterm and your grade on the corresponding part of the final exam. Notes, books, calculators, and electronic devices are prohibited on exams. Attendance to exams is mandatory - you must provide a letter from the Office of Academic Advising if you have a valid reason to miss an exam.

The exam schedule is as follows:

Midterm 1: Friday, October 18

Midterm 2: Friday, December 6

Final exam: Monday, December 16

Project By the beginning of November, a selection of final projects will be made available. These will present a narrative-style problem that will require various concepts learned in class to solve. While there will be multiple choices of project, students will only need to complete one project. Projects will be due on December 2 and will be returned by December 6, after which there will be an opportunity to revise the submissions to regain lost points. The revisions will be due December 16. The final project will be worth 20% of the final grade.

Grade Breakdown

Reading quiz	5%
Homework	15%
Midterm 1	30%
Midterm 2	30%
Project	20%

Support and Resources

There are numerous resources available to Johns Hopkins students who would like extra help on coursework. These include:

- My office hours
- Math Help room: Krieger 213
9 AM - 9 PM Monday through Thursday
9 AM - 5 PM Fridays
- The Learning Den

Like most math courses, later material builds on earlier material, so if you fall behind it can be difficult to catch up. If you feel you are falling behind in the class, please reach out to me. Talk to me after class, during office hours, or shoot me an email and we'll figure out a plan to get you back on track.

Special Aid

Students with disabilities or other special needs who require classroom accommodations or other arrangements must make this known to me by the end of the second week of classes, and be registered with the disability coordinator in the Office of Academic Advising. If you fail to do this, I may not be able to accommodate your needs.

Academic Honesty

Cheating occurs when one submits work which is not representative of their personal effort or knowledge, or she they otherwise gain an unfair advantage over the other students. My policy on cheating is very simple: If you get caught cheating on a homework assignment, you get a zero for that assignment (this zero cannot be dropped as your lowest homework grade). If you get caught cheating on an exam, you get a zero on that exam. Repeated or severe cases will be submitted to the ethics board for evaluation. The Homewood Undergraduate Academic Ethics Policy can be found here: <https://studentaffairs.jhu.edu/policies-guidelines/undergrad-ethics/>.