

Math 156 Applied Honors Calculus II Fall 2023

Math 156 is a 2nd semester calculus class for STEM majors. The course develops computational skill and conceptual understanding with emphasis on the science applications of calculus.

Instructor: Robert Krasny, 4830 East Hall, 763-3505, krasny@umich.edu

Section 1: MTuWF 10am-10:50am

Section 2: MTuWF 11am-11:50am

Classroom: 2866 East Hall

Office Hours: Wed/Thurs/Fri 5-6pm, or email me for an appointment in-person or on Zoom, or drop in whenever my office door is open

Website: In addition to the Canvas site, material is also posted at the following site.

<http://www.math.lsa.umich.edu/~krasny/math156.html>

Prerequisite: score of 4 or 5 on the Advanced Placement AB or BC calculus exam; if you don't have the prerequisite, please discuss it with me.

Textbook: There is no required textbook; lecture notes will be posted on Canvas.

For supplemental reading, the following options are recommended.

1. "Calculus II", by Jerrold Marsden and Alan Weinstein, available at the Caltech library

<http://www.cds.caltech.edu/~marsden/volume/Calculus/>

2. "Calculus", by James Stewart, any edition is ok and cheap used copies are available from online booksellers.

3. your high school calculus textbook

Homework: There will be weekly hw sets due on Tuesdays at 4pm. (The due date will change later in the semester due to the midterm exams and Fall study break). Students may discuss the problems with each other, but each student should write up their own solutions, neatly and legibly. The solutions should be scanned and uploaded to Gradescope in Canvas. Solutions will be available after 4pm on the due date for short-term borrowing from the Askwith Media Library on the 2nd floor of the Undergraduate Library.

Course Grade

homework = 25%

1st midterm exam = 20%, Wednesday, September 27, 6-7:30pm

2nd midterm exam = 20%, Wednesday, November 8, 6-7:30pm

final exam = 35%, Friday, December 8, 8-10am

Science Learning Center Study Groups

Each group has 8-12 students who meet for two hours weekly with a student facilitator who took the class before. Participation is optional, but most students find the groups helpful. Online registration starts on Thurs Sept 8 at 9am. If the group you want is full, join the waitlist and another group may be opened. <http://www.lsa.umich.edu/slc/study-groups/join.html>

Advice to Students

1. Questions are encouraged; if something is unclear, please ask me a question.

2. Review the lecture notes every few days; make a list of anything that's unclear and ask me about those points either in class or office hours.

3. On homework and exams, show your work and explain the steps clearly. Getting the right answer is good, but you must explain your work clearly to receive full credit.

Class Policy: Please minimize distractions in class - no cell phones, web surfing, eating, reading newspapers, etc. - thank you!