Lecture meetings:

Section 215-020 is taught by Dr. Jeff Dunworth (dunworth@umich.edu). You are expected to attend the lecture section for which you are registered: Monday, Wednesday & Friday, 12:00 — 12:50 pm, 2260 USB

Office Hours: All Math 215 students are welcome at any instructor's office hours. My office hours this semester will be Monday and Friday 1-2pm in the Math Lab, and Friday 11am-12pm in EH 3823, or by appointment. (During the first week of classes they will be held in my office in EH 3823). I am also available by appointment if you can't make any of my office hours.

A list of office hours for other instructors and GSIs can be found here: [Office Hours](#)

GETTING HELP:

Math 215 is a hard class: while it starts out slow, by the end of the semester we are covering new topics at a breakneck pace. If you fall behind, it can be *very* difficult to get caught up. You are encouraged to work together in study groups. In addition, please be aware of the following places to get help:

- *Office Hours*. Please come to office hours! Office hours are a great opportunity to work together (with other students, or with me) on homework problems, to discuss the ideas of the course, or just to get to know one another.
- *The Math Learning Center* (also known as the "Math Lab"). The MLC, located in B860 EH, provides free, drop-in tutoring (no appointment necessary) for all courses at the 100- and 200-level, including Math 215. You can find the [MLC schedule and additional information here](#).

ADDITIONAL RESOURCES:

In addition, you may find some of the resources below useful.

- **Free software** for visualizing functions, vector fields, curves and surfaces in 2 and 3 dimensions: *(This list may grow as the semester develops.)*
    - [Geogebra](#), available for desktop and mobile platforms; also runs in-browser. Useful for graphing parametrized curves (in $\mathbb{R}^2$ and $\mathbb{R}^3$), surfaces (given either in the form $z = f(x,y)$ or parametrically).
    - [Desmos](#), available both in-browser and as a mobile app. Desmos has a new 3D app which can be used to graph relations (in $\mathbb{R}^2$ and $\mathbb{R}^3$). With some work, can also be used to plot vector fields.
    - *Grapher*, a pre-installed application on Mac computers (find it in the Utilities folder). Native support for vector fields, implicitly-defined surfaces, and much more.
    - [Graphing Calculator 3D](#), for Mac, Windows and Linux. Comes in both a Free version (good enough for our class) and subscription-based versions with additional features.
- Examples we discussed/worked on in class:
- **Practice Problems:** While there is no shortage of homework in this class, on occasion students want even more practice than we already provide. The textbook is full of good questions, but if you want some additional suggestions, I have compiled a collection of problems from the textbook that I found particularly good practice, which you can find here: [Practice Problems](#)