

Math 4233 - Intermediate Differential Equations

<http://math.okstate.edu/people/lebl/osu4233-f18/>

Lecture: TR 2:00-3:15pm MSCS 514

Lecturer:

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Text:

Notes on Diffy Qs, by Yours Truly,

Available at <https://www.jirka.org/diffyqs/> for download or browsing,
or on amazon as a cheap paperback.

The plan is to cover chapters 3, 8, 4, (and perhaps 5 if there's any time left) in that order.

Gradescope

We will be using Gradescope (<http://gradescope.com>) for all exams. Create an account. I will provide (in class) an *Add code* that will add you to the class.

Grading:

The grading scheme is given below:

$$\begin{aligned} \text{Grade} = & 0.2 \times (\text{Homework}) + 0.2 \times (\text{Exam 1}) \\ & + 0.2 \times (\text{Exam 2}) + 0.4 \times (\text{Final Exam}) \end{aligned}$$

To account for bad exam day, etc..., an alternative grade will be computed as follows

$$\begin{aligned} \text{Grade} = & 0.2 \times (\text{Homework}) + 0.1 \times (\text{Exam 1}) \\ & + 0.1 \times (\text{Exam 2}) + 0.58 \times (\text{Final Exam}) \end{aligned}$$

A second alternative (to account for bad final day) will be follows

$$\text{Grade} = 0.2 \times (\text{Homework}) + 0.3 \times (\text{Exam 1}) \\ + 0.3 \times (\text{Exam 2}) + 0.18 \times (\text{Final Exam})$$

The highest of the three will be used for your grade. Notice that in the alternative schemes, the score does not sum to 100 percent. That is on purpose! You should count on the first scheme, the second/third schemes are only to account for things going terribly terribly wrong on one of your exams.

Exams:

Exam 1: Tuesday, September 25, (in class) (tentative)

Exam 2: Thursday, November 1, (in class) (tentative)

Final Exam: Thursday, December 13, 2:00-3:50pm (same room as the class), Comprehensive, think of the final exam as half exam 3 and half comprehensive final

Exam Policies: No books, calculators or computers allowed on the exams or the final. **One page (one sided) of notes allowed on the exams.**

Homework:

Assigned weekly (some weeks may be skipped). Homework will be done using WeBWork. Go to:

<https://webwork.math.okstate.edu/webwork2/MATH-4233-F18/>

You have been/will be sent instruction on how to log in by email sometime in the first week of class.

Lowest 2 homework grades dropped (so **no late homeworks**).

Missed Work:

No makeup or late homework (two lowest are dropped anyhow). For exams, there will be reasonable accommodation if you have a valid and **documented** reason, and the documentation is provided **in advance** unless absolutely impossible. If you have a university approved (see the syllabus attachment) final conflict exam, you must tell me at least two weeks before the final exam week, so so that we can figure out what to do.

Syllabus attachment:

See the official syllabus attachment, for some more information.

Interesting links:

Wolfram Alpha (<http://www.wolframalpha.com>). It's like Google for math.

Speaking of Google: try typing something like x^2-y^2 .

Although no, Google will not likely solve your homework problems for you. Even if it did, it would not be a good idea. The reason for doing the homework is to learn how to do it. If you simply try to find solutions online, and do manage to find them, you will not learn anything and you will see the result of this on the exams. Also it is *considered cheating (and plagiarism)* to find solutions online and claim them as yours. Don't do it!

It never hurts to learn how to use LaTeX if you want to type up stuff with lots of math. It not only increases legibility of your work, it also increases your nerd factor by an order of magnitude (that's a good thing). For easy to use LaTeX frontends try TeXworks (Linux, Windows, Mac) or TeXShop (Mac). Or perhaps give LyX (Linux, Windows, Mac) a go. Lyx might be the easiest of the bunch, though it is not as flexible.

The easiest way to type LaTeX without installing anything is online on Overleaf.