

Ordinary Differential Equations MTH 235

Syllabus Summer 2015

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Office : C 544 Wells Hall

Office Hours: By appointment.

Class Page: <http://www.math.msu.edu/~ivanisvi/MTH235-2015SU.html>

My MLC shifts: M: 5:10--6:20, T: 12:30--1:40, W: 4:00--6:20

Lectures: Monday, Tuesday, Wednesday and Friday 10:20–12:10

Webwork: <https://ww4.math.msu.edu/> and choose 56600

Textbook: Ordinary Differential Equations, Free download in pdf format.
<http://www.math.msu.edu/~gnagy/teaching/ode.pdf>. We will cover Chapters 1-8.

General Course Description: This course is an introduction to ordinary differential equations. We describe a collection of methods and techniques used to find solutions to several types of differential equations, including first order scalar equations, second order linear equations, and systems of linear equations. We introduce Laplace transform methods to solve the initial value problems. We also provide a brief introduction to boundary value problems, and Fourier Series. Near the end of the course we combine previous ideas to solve an initial boundary value problem for a particular partial differential equation, the heat propagation equation.

- **Attendance:** *Attendance is mandatory.* You are responsible for all the announcements, changes, course information, and topics that we will cover in class. If you miss a substantial number of lectures without discussing the matter with me and without a valid excuse, your final grade may be deducted.
- **Reviewing Lecture Notes:** Reviewing the lecture notes is considered as a part of the homework assignments. It will be expected that you review the notes after each lecture in order to understand the material of the course in depth and it would help you to do well on your Exams.

- **Homework** : You will be required to solve homework in your webwork. In order to register for the webwork please go to the page <https://www1.math.msu.edu/webwork/> and follow the instructions.

Webwork Fee MTH 235: xx

Webwork is a free software. However, the problems in every course have been created by the Mathematics Department. The Webwork Fee helps create, maintain, and develop the homework problems for the mathematics courses.

When to Pay the Webwork Fee?

The Webwork Fee is due on xxx at 10:00am, just after the Drop With 100% Refund Due Date. Webwork can be used for free up to the due date.

The Webwork Fee is not refundable.

If you pay the Webwork fee and later you drop the class, we cannot refund the Webwork Fee.

If you are not sure whether you stay or drop the class, use Webwork without paying the fee, till close the due date.

Pay the Webwork fee when you are sure you stay in the class.

Try to make this decision a few days before the Drop With 100% Refund Date.

This will minimize the risk of unforeseen circumstances forcing you to past the due date and being dropped from Webwork.

Forgot to Pay and Dropped from Webwork? Go to the Webwork Help Page, and click on Student Help Page. Use your PID number (A*****) and MSU Net ID to enter the Webwork Help Page. Find the section to pay the Webwork Fee and follow the directions in that page. There is a processing time of up to 2 hours after you pay the Webwork Fee. Your Webwork account will be back online after that processing time. All the work you have done in your Webwork Homeworks will be saved.

- **Midterm Exams 300 points**

There will be three exams; see the schedule for the dates. No notes, no books, no calculators, no phones, no tablets, no computers will be allowed in the exams. **Any test missed without an authorized excuse will count as 0/100.**

- **Final Exam 200 points**: **You must take the final examination in order to pass the course.** All students are required to take the Common Final Exam which will be on Wednesday, July 1, 2015 at xxxx, in xxxx. The university has strict requirements for exceptions, and you can find more information here: <http://www.reg.msu.edu/R0Info/Calendar/FinalExam.asp>
- **Make-up Exams Policy**: Make-up for exams will only be given in case of a medical or emergency absence, and only with a written excuse from a doctor or other appropriate individual. Such exams are only given in extreme cases which I consider to be sufficiently convincing and serious.
- **Course Grading**: Your course grades will be based on the the following scale;
 1. 60% 3 Midterm Exams (20% each).
 2. 30% Final Exam.

3. 10% Webwork.

4.0	3.5	3.0	2.5	2.0	1.5	1.0	0.0
[90, 100]	[85,90)	[80,85)	[75,80)	[70,75)	[65,70)	[60,65)	Below 60

Brackets [,] means inclusive, round brackets (,) means not-inclusive.

This scale may be curved to be more lenient, depending on the final grade distribution. However, such a curve is at the sole discretion of the instructor.

- **Academic Dishonesty:** Academic dishonesty is considered a serious offense at MSU. Students caught cheating may face failure in the course and an administrative sanction which may include suspension or expulsion from the university. See the MSU Academic Integrity Policies <https://www.msu.edu/~ombud/academic-integrity/index.html>
- **Math Learning Center:** The MSU Mathematics Learning Center (MLC) is located in C126 Wells Hall. The Learning Center provides assistance for students to complete their **WebWork** assignments . If you go to C126 Wells Hall, a monitor will direct you to the appropriate room for this class. You can find more information about MLC here <https://www1.math.msu.edu/mlc/>
- **Important dates**
 1. 5/18 Class Begins
 2. 5/20 Open add ends 8:00 pm
 3. 5/29 Last day to drop with refund 8:00 pm
 4. 6/10 Last day to drop with no grade reported 8:00 pm
 5. 7/1 Final Exam