

## MTH 235-102: Ordinary Differential Equations Summer 2016 Syllabus

**Instructor:** Sarah Klanderaman  
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**Office:** C542 Wells Hall  
**Office Hours:** By appointment

**Class Page:** [http://mathdata.msu.edu/CP/RW/S235\\_202.html](http://mathdata.msu.edu/CP/RW/S235_202.html)

**Lectures:** MTWF 12:40-2:30  
A224 Wells Hall

**WeBWorK:** <https://www.math.msu.edu/webwork/>

**Textbook:** Ordinary Differential Equations, free download in PDF format found at  
<http://users.math.msu.edu/users/gnagy/teaching/ode.pdf>

**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 initial value problems and also provide a brief introduction to boundary value problems and Fourier Series.

**Attendance:** *Attendance is mandatory.* You are responsible for all the announcements, changes, course information, and topics that are covered in class. If you miss a substantial number of lectures without discussing the matter with the instructor and without a valid excuse, your final grade may be deducted.

**Lecture Notes:** Reviewing lecture notes is considered a part of the homework assignments. It is expected that you review the notes after each lecture in order to understand the course material in depth in preparation for exams.

**Homework:** You are required to solve homework through WeBWorK. In order to register for WeBWorK please go to *https : //www.math.msu.edu/webwork/* and follow the instructions.

Although WeBWorK is a free software, there is a WeBWorK fee that helps the Mathematics Department create, maintain, and develop the homework problems for its math courses. The fee is due just after the *Drop with 100% Refund Due Date*, and WeBWorK can be used for free up to that date. The fee is non-refundable, so if you drop the class after paying the fee, you will not be refunded. If you are not sure whether or not you will drop the class, use Webwork without paying the fee until a few days before the *Drop With 100% Refund Date*, thereby minimizing the risk of unforeseen circumstances which may cause you to be dropped from WeBWorK.

If you do forget to pay and get dropped from Webwork then go to the WeBWorK Help Page, click on the Student Help Pagem and use your PID number (A\*\*\*\*\*)

and MSU Net ID. Find the correct section and pay the WeBWorK fee, following the directions on that page. There is a processing time of up to 2 hours after you pay the WeBWorK fee, and your WeBWorK account will be back online after that processing time. All the work you have done in your WeBWorK homework assignments will be saved.

**Midterm Exams:** *300 points*

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

**Final Exam:** *200 points*

*You must take the final exam in order to pass this course.* All students are required to take the Final Exam on Wednesday, June 29, 2016 at 12:40pm. The university has strict requirements for exceptions; more information can be found here: <http://www.reg.msu.edu/ROInfo/Calendar/FinalExam.aspx>

**Make-up Exam Policy:**

Make-ups for exams will only be given for medical or emergency absences and only with a written excuse from doctor or other authorized individual. Such exams are given only in extreme cases that are approved by the instructor as sufficiently convincing and serious.

**Course Grading:**

Your course grades will be based on the following, out of 600 points total:

- 300 pts, 3 Midterm Exams (100 pts each)
- 200 pts, Final Exam
- 100 pts, WeBWorK

4.0	3.5	3.0	2.5	2.0	1.5	1.0	0.0
90%-100%	85%-89%	80%-84%	75%-79%	70%-74%	65%-69%	60%-64%	Below 60%

**Academic Dishonesty:** Academic dishonesty is considered a serious offense at MSU. Students caught cheating may fail the course and face administration sanction, including suspension or expulsion from the university. See MSU Academic Integrity Policies for more information: <https://www.msu.edu/ombud/academic-integrity/index.html>

**Math Learning Center (MLC):** The MSU Math Learning Center is located at C126 Wells Hall, where a monitor will direct you to the appropriate room for this course. The MLC provides assistance for students' WeBWorK assignments. You can

find more information about the MLC here: <https://www.math.msu.edu/mlc/>

**Important Dates:**

- 5/16 Class begins
- 5/18 Open add ends (by 8:00pm)
- 5/26 Last day to drop with refund (by 8:00pm)
- 5/30 Memorial Day–No class
- 6/8 Last day to drop with no grade reported (by 8:00pm)
- 6/29 Final Exam