

Differential Equations - Math 207

Monday-Friday 8:30-9:20

Spring 2010

Lecturer: Juliet Lovejoy

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Office hours: Tues 1:30-3:30 pm, Weds 12-1 pm, Mon 12:30-2 pm (MLC), Thurs 12:30-1:30 pm (MLC)
(Feel free to e-mail or talk with me if you would like to meet at a time other than during my office hours or have any questions or concerns. When e-mailing, include the word "Math" in the title.)

Office: 5311

Office Phone: 546-4574

Text: *Fundamentals of Differential Equations, 7th Edition* by Nagle, Saff, & Snider (ISBN #0321410483)

Prerequisites: MATH 163 (2.0 or better)

Core topics: Solving linear & non-linear differential equations and systems of ODEs using
qualitative, graphical, numerical, and symbolic techniques
Modeling with differential equations

Lectures: Monday to Friday from 8:30 to 9:20 in room 2905. You are responsible for knowing all that goes on in lecture. (No classes on May 21st and May 31st.)

Homework: Homework will be collected on Tuesdays unless otherwise specified. I will post the homework on the course website and will announce the homework (or any changes) in class. Homework will be graded out of 15 points; 6 points for completion, 9 points for the correctness of three selected problems from the homework. Answers to the odd problems are in the back of your textbook and a solutions manual to the odd problems can be found in the MLC.

At the end of the quarter, the lowest homework grade will be dropped for final grade calculations. Late homework will not be accepted. Your first assignment is due Tuesday, Apr. 6th.

In order to receive credit for each assignment, it must be **complete, on-time (at the beginning of class)**, and meet the following criteria:

- ***Problem-solving steps must be shown clearly** for all problems.
- *It must be on standard-size (8" × 11") paper with no fringed edges.
- *Pages must be stapled in order if there is more than one page.
- *All the variables you use must be defined with included units.
- *Graphs must be drawn with a straight edge and axes must be clearly labeled.

Quizzes: There will be a weekly quiz based on the material covered in the homework. Quizzes will be graded out of 10 points. I will drop two of the lowest quiz scores for each student in final grade calculations. The quizzes will be on Tuesdays unless otherwise specified.

Exams: There will be two midterm exams and one final exam. The dates of the exams are as follows:

Exam 1: Friday, April 23rd

Exam 2: Thursday, May 20th

Final: Wednesday, June 9th, 8 - 10 am

- You may submit corrections for the midterm exams for extra points added to your exam score (not to exceed a final score of 100% on each exam). **Corrections must be submitted on a separate paper along with the original exam.** The number of extra points possible is as follows:

Original score of 90% or above	→ up to 3 extra points possible
80%-89%	→ up to 4 extra points possible
Below 79%	→ up to 5 extra points possible

Grading: Your overall grade will be made up of the following:

Homework 20%	Quizzes 20%
Midterm Exams 15% each	Final Exam 30%

- Final grades range from 0 to 4.0. To obtain a 4.0, the overall grade percentage must be 95% or above. Percentages ranging from 85% to 94% will result in a course grade from 3.0 to 3.9. Percentages ranging from 75% to 84% will result in a course grade from 2.0 to 2.9. Percentages ranging from 65% to 74% will result in a course grade from 1.0 to 1.9.
- The last day to withdraw from the course with a “W” grade or to switch to Audit is May 10th.
- The last day to switch to a Pass/No credit option is April 30th.

Other Class Policies:

- Cell phones must be silenced and put away during class.
- Disruptive behaviors, such as excessive talking, will not be tolerated and may result in dismissal from class.
- Any behaviors that may be interpreted as cheating will result in a zero grade for the corresponding assignment or test. A second instance of cheating will result in a course grade of 0.0.

Resources:

- The Math Learning Center in the 2200 building (rooms 2201-2204) is open to students in Math 207. I strongly encourage/recommend for you to work with other students in the class. The MLC is an ideal place to do this.
MLC Schedule: Monday-Thursday 8 am - 6:30 pm, Friday 8 am - 3 pm, Sunday 2 - 6 pm
- Students with physical or learning disabilities have a right to services and accommodations which will allow them to successfully compete on an equal basis with non-disabled students. To receive accommodations and services, students must request them each quarter they are needed. Requests can be made to the coordinator of services for students (546-4545, TTY:546-4520) with disabilities in the Foss building (5226).

This syllabus is subject to change. Any changes will be announced in class and an updated syllabus will be posted on the course website.