

# Differential Equations - Math 207

Monday-Friday 8:30-9:20

Spring 2011

**Lecturer:** Juliet Lovejoy

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**Office hours:** Mon-Fri 9:45-11:15 am, Mon 1-2 pm, Weds 1-2 pm, Thurs 1-3 pm

(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.)

**Text:** *Fundamentals of Differential Equations, 7th ed.*, 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 during class times. (No classes on April 29th, and May 30th.)

**Homework:** Homework will be collected on Tuesdays unless otherwise posted. I will post the homework on the course website and announce the homework (or any changes) in class. Homework will be graded out of 15 points, 9 points for the correctness of three selected problems from the assignment. Answers to the odd problems are in the back of your textbook and a solutions manual to the odd problems is available 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, April. 5th.

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 ( $8 \times 11$ ) 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 (on Tuesdays unless otherwise specified) based on the material covered in the homework. Quizzes will be graded out of 10 points. I will drop the lowest quiz score for each student in final grade calculations and towards the end of the quarter, each student can retake one quiz of their choosing.

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

Exam 1: Friday, April 22nd

Exam 2: Friday, May 20th

Final: Friday, June 10th, 7:30 - 9:20 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 95% or above → up to 2 extra points possible
  - 90%-94% → 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 17.5% each	Final Exam 25%

- 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 9th.
- The last day to switch to a Pass/No credit option is April 29th.

**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. The center is staffed by learning assistants eager to help with any math-related questions that you may have.

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.