

Math 321: Ordinary Differential Equations  
Time: MTHF 12:00 -- 12:50  
Room: WH 288A

Professor: Dan Singer  
Office: WH 263  
Email: dan.singer@mnsu.edu

**Course Description:** This course presents the theory, computations, and applications of first and second order differential equations and two-dimensional systems.

Prerequisite: Math 122 (Calculus II) with C or better.

**Textbook:** *Introduction to Ordinary Differential Equations, Fourth Edition* by Shipley L. Ross, 1989, John Wiley & Sons.

**Course Format:** Lectures, homework, weekly quizzes, four regular exams and a final exam. See the schedule below for reading assignments and exam dates.

**Grades:** Each assignment is awarded between 0 and 100 points. Your exam scores are averaged and are worth 45% of your grade. Quiz scores are averaged and are worth 20% of your grade. Homework scores are averaged and are worth 15% of your grade. The final exam score is worth 20% of your grade. I will use the following grade scale:

A: 90—100 points  
B: 80—89  
C: 70—79  
D: 60—69  
F: 0—59

**How to Study for this Class:** Take notes during the lecture as needed. Read the textbook and my handouts carefully and make a note of questions to ask in class. Do the homework carefully and make a note of questions to ask in class.

**Homework Policy:** Each submitted homework assignment will be marked Satisfactory (100 points) or Unsatisfactory (0 points). Homework must be written up carefully and stapled. Do not rip the pages out of a spiral notebook. Do not submit class notes as your own work. I will look over your homework and make comments as necessary.

**Attendance Policy:** I don't award points for attendance, but my quizzes and exams are based on the assumption that students have attended 100% of all classes, have taken careful notes, and have done all the homework.

**Student Conduct:** Please do the following: Arrive to class on time. Turn off your cell phone if you have one. Provide me with an explanation in advance if you need to leave the classroom early or need to miss a class. Inform me if you are working with a partner on homework assignments.

**Class Schedule:** Exams and quizzes are scheduled for Fridays (Except for Exam 4, which is scheduled for Tuesday May 1st).

<u>Date</u>	<u>Sections</u>	<u>Remarks</u>
1/15 -- 1/19	1.1, 1.2, 1.3, 2.1	
1/22 -- 1/26	2.1, 2.2, 2.3	
1/29-- 2/02	2.4, 3.1, 3.2	
2/05 -- 2/09	3.3, 4.1, 4.2	Exam 1
2/12 -- 2/16	4.3, 4.4, 4.5	
2/19 -- 2/23	5.1, 5.2, 5.3	
2/26 -- 3/02	5.4, 5.5, 5.6	
3/05 -- 3/09	6.1, 6.2, 6.3	Exam 2
3/12 -- 3/16	-----	Spring Break!
3/19 -- 3/23	7.1, 7.2, 7.3	
3/26 -- 3/30	7.4, 7.5, 7.6	
4/02 -- 4/06	7.7, 8.1, 8.2	Exam 3
4/09 -- 4/13	8.3, 8.4, 8.5	
4/16 -- 4/20	8.6, 8.7, 8.8	
4/23 -- 4/27	9.1, 9.2, 9.3	
4/30 -- 5/04	9.4, 9.5	Exam 4

**Final Exam:** Wednesday, May 9, 10:15 a.m. - 12:15 p.m., all topics.