

Instructor: Peter A. Rejto

Lecture: **14:30 – 15:20, MWF, Nicholson Hall 211**

E-mail: rejto@math.umn.edu

Phone: 612.625.4598

Office: Vincent Hall 430

Office hours: MWF 13:25 – 14:15

Dis 21,23

TA: Mr. Oleg Alexandrov

E-mail: aoleg@math.umn.edu

Phone: 612.625.3896

Office: Vincent Hall 358

Office hours: MF 3:20 - 4:35

Dis 22,24

TA: Mr. Fatih Celiker

E-mail: celiker@math.umn.edu

Phone: 612.624.2329

Office: Vincent Hall 520

Office hours: TuTh: 3:35–4:25

**Textbook:** Goode, Differential Equations and Linear Algebra, 2nd edition. We will cover most but not all of Chapters 1–6 and Chapter 8.

**Prerequisites:** Calculus I and Calculus II or something comparable. Note that as in Calc I and Calc II, we shall make heavy use of the chain rule. (For the chain rule see for example, Section 3.5 of Stewart, Calculus - Early Transcendentals 4th edition.)

**Homework:** Homework will be assigned in class and collected in the recitation sections on Tuesdays, after the material has been covered in class. Most, but not all of the assigned Homeworks will be taken from the enclosed list.

**Tests:** We will have four closed book tests on Thursdays, in the recitation sections; **Feb. 6, Feb. 27, Mar. 27, April 24** These tests will emphasize the same material that was emphasized in class. Furthermore, some of the test problems will be similar to the Homework problems on the enclosed list. The material covered by a given test will be announced in class.

**Calculators:** The use of calculators on tests will not be allowed. At the same time, you may find calculators useful in doing some of the Homework problems. Similarly, you may find it useful to bring calculators to class.

**Quizzes:** There will also be quizzes in the discussion groups. Your group leader will let you know his/her policy.

**Makeup Examinations:** As per university senate policy. Note that “Students are responsible for providing documentation to the instructor to verify the reason for the absence.” For complete specifications visit the website: [www1.umn.edu/usenate/policies/makeupexam.html](http://www1.umn.edu/usenate/policies/makeupexam.html).

Accordingly, there will be a uniform makeup examination. That is to say, the make-up will not be geared to the test you have missed. It will be comprehensive and cover material from all 4 tests. The time is Tuesday, April 29, 9:05am–9:55am and the place is Smith Hall, room 111. **You have to sign up with your instructor on Friday, April 25, after class in Nicholson Hall 211** Please note that if you are not on the list the Math. Department proctors will not be able to give you the test!

**Record keeping:** If there is a discrepancy between your records and ours, please let us know immediately, but not later than two weeks. In any case, we shall not adjust our records after two weeks.

**Incompletes:** As per senate and Math. Department policy. Note that arrangements have to be made before the Final!

**Grading:** Each test will cover 100 points. The final will count 300 points. The quizzes will count a total of 50 points. Your grade will be determined by the total number of points earned of a possible 750.

**Material to be covered:**

- Chapter 1, Sections 1.1–1.8.
- Chapter 2, Section 2.1 and Sections:2.3–2.6.
- Chapter 3, Sections 3.1–3.6.
- Chapter 4, Sections 4.1–4.5.
- Chapter 5, Sections 5.1–5.6.
- Chapter 6, Sections 6.1–6.7.
- Chapter 8, Sections 8.1–8.8.

First day of instruction, Tuesday, January 21. Spring break, May 17–May 21. Last day of instruction, Friday, May 9.

**UNIFORM, COMPREHENSIVE FINAL EXAMINATION,  
MONDAY, MAY 12, 13:30–16:30,  
place to be announced.**

Last Updated: 02/03/2003

### Preliminary List and Schedule of Assigned Homeworks:

Week	date	Sec.	Problems
1.	1/20	1.1	1,3,7,10,13,16
		1.2	4,5,6,7,17,20,23,30,31
		1.3	1,3,8,12,13,17,20
2.	1/27	1.4	3,4,7,10,13,15
		1.5	1-5
		1.6	1, 2, 6, 14, 16, 29
3.	2/3	1.7	10, 30, 34, 44
	2/5		Review
	2/6		<b>Midterm exam 1</b>
		1.8	3,4,10,13,21,25,37,41,52,55
4.	2/10	2.1	1-7
		2.3	3,7,10,13,15,18
		2.4	2,5,9,11,13,17,18
5.	2/17	2.5	1,3,4,6,7,9
		2.6	1,4,5,9,10,24
		3.1	All odd problems
6.	2/24	3.2	2,3,5,7,11,12,13,14,15,16
	2/26		Review
	2/27		<b>Midterm exam 2</b>
		3.3	2,3,5,6,10
7.	3/3	3.4	1-8,9,11,15,19,21,23
		3.5	3,5,6,9,11,14,19,22,23,43,47
		3.6	2,5,8,13,19,22,28
8.	3/10	4.1	1,2,5,8,11
		4.2	3,5,6,9,14,16,17,22
		4.3	5,7,11,15,23,25,28,39,42
	3/17		<b>Spring break</b>

Week	date	Sec.	Problems
<b>9.</b>	3/24	5.1	1-5
	3/26		Review
	3/27		<b>Midterm exam 3</b>
		5.2	1-10
<b>10.</b>	3/31	5.3	1-12,16-18,21
		5.4	1,4,7,9,11,15,16,17,19,25,28
		5.5	3,7,9,11,13,17,18,20,23,29,35
<b>11.</b>	4/7	5.6	3,5,7,9,11,15,17,21,24,31,33
		6.1	2,3,5,6,8,11,14,17,20,22
		6.2	1,4,5,8,11
<b>12.</b>	4/14	6.5	3,4,5,6,9,13,16,19,23,27,28,29,31,32
		6.6	3,5,10,11,13,16,17,19,21,24
		6.7	1,4,5,7,10,11,15,18,21
<b>13.</b>	4/21	8.2	3,7,9,12,14,17,20
	4/23		Review
	4/24		<b>Midterm exam 4</b>
		8.3	3,4,5,9,10,11,13,19,21
<b>14.</b>	4/28	8.4	1,3,5,7,9
		8.5	3,6,9,13,17,20,21
		8.6	1,3,7,11,12
<b>15.</b>	5/5	8.7	1,3,6,7,8
		8.8	1,2,9
			Review
	5/12		<b>Final exam</b>