

Instructor: Professor Peter A. Rejto.  
Lecture: **12:20 pm – 13:10 pm., MWF AndH 210.**  
e-mail:rejto@math.umn.edu  
Office: Vincent Hall 430  
Office Hours: M,W,F 13:25 pm–14:15 pm or by appointment.  
Office Tel: 625.4598  
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Recitation Leaders:

Disc. 21: Mr. Chang Hyeng Lee; chlee@math.umn.edu:  
Discussion: 12:20 pm –13:15 pm Th CHDev1105  
Office: Walter Library 478; Office Hours: 10:50 am – 11:40 am Th  
Office Tel: 624.3713  
website: www.math.umn.edu/~chlee

Disc. 22: Mr. Fei Xu; fxu@math.umn.edu :  
Discussion: 12:20 pm–13:10 pm, EE/Csci2-260  
Office: VinH 555; Office Hours: Th 9:05am – 9:55am  
Office Tel: 624-2527  
website: www.math.umn.edu/~fxu

Disc. 23: Mr. Yanlai Chen; ylchen@math.umn.edu:  
Discussion: 12:20 pm–13:10 pm Th, Ford Hall 115  
Office: VinH. 322; Office Hours:Th 10:10am-11:00am or by appointment  
Office Tel: 625-3395  
website: www.math.umn.edu/~ylchen

Disc. 24: Mr. Fei Xu; fxu@math.umn.edu :  
Discussion: 13:25 pm–14:15 pm, AmdH 113  
Office: VinH 555; Office Hours: Th 10:10am – 11:00am  
Office Tel: 624-2527  
website: www.math.umn.edu/~fxu

Disc. 25: Mr. Yanlai Chen; ylchen@math.umn.edu:  
Discussion: 13:25 pm–14:15 pm Th, AmundH 124  
Office: VinH. 322; Office Hours:Th 15:35pm-16:25pm or by appointment  
Office Tel: 625-3395  
website: www.math.umn.edu/~ylchen

**Prerequisites:** 3 and 1/2 years high school math, or *C*– or above in Math 1051, or placement exam. In particular, familiarity with operations on fractions is required!

**Textbook:** M.Sullivan, Precalculus, Prentice Hall, Sixth Edition.

**Coverage:**

Sections	Lectures
Sullivan, Chapters 5-7, omitting 6.2, 6.6 and 7.5	21 lectures
Sullivan, Sections 3.6–3.7	4 lectures
Sullivan, Sections 8.1 and 8.3	3 lectures
Sullivan, Sections 9.1–9.4	3 lectures
Sullivan, Sections 10.1, 10.2, 10.7, and 10.8	5 lectures
Sullivan, Sections 11.1–11.3	3 lectures
Three one-hour exams.	3 lectures
Total	42 lectures

**Description:** Overview: Trigonometric functions and inverse trigonometric functions: definitions, graphs, identities, applications; real and complex zeroes of polynomials; polar coordinates; DeMoivre's Theorem; conic sections; solutions of linear systems by substitution and elimination; systems of nonlinear equations and systems of inequalities; arithmetic sequences and geometric series. Audience: Students from Math 1051 or Math 1031 and those that need a little refresher course before going on to calculus, often because of the trig. Satisfies the prerequisite for Math 1271 or Math 1371 and also satisfies the CLE Mathematical Thinking requirement.

**Homework:** Homework will be assigned in class from the enclosed SUGGESTED HOMEWORK list and possibly from other sources. Homeworks will be collected in class on the Mondays or Wednesdays following the assignment. (Please check it with your Discussion Leader)

**Tests:** We will have three tests as follows: Friday October 1, on Friday November 5, and on Friday December 3. About half of the test problems will be either from the examples worked out in class or taken from the enclosed SUGGESTED HOMEWORK list. The remaining ones will be modelled on such problems. Note that **the tests will emphasize the material treated in class**. Furthermore, these tests may include some review problems from M.Sullivan, K.Murphy and M.Sullivan III, Algebra Review, Prentice Hall.

**Absences and Makeup Examinations:** Regular attendance is expected. You are responsible for any material and announcements made in class. Again, please let us know if you need to miss one of the midterm exams. As per Senate and Math. Department policies, written documentation etc, required. For those who qualify, there will be a uniform makeup test, on **TUESDAY DECEMBER 7, 12:00–12:50, IN LIND HALL 216. YOU WILL HAVE TO SIGN UP FOR THIS EXAM ON THE PREVIOUS FRIDAY OR MONDAY AFTER CLASS, WITH PROFESSOR REJTO. You will also have to provide your student id number. If your name or id number is missing from the list, the Departmental Proctor will not give you a test** Note that this makeup is uniform. In other words, you will have to take the same makeup independent of the test you have missed.

**Incompletes:** Absenteeism at the final exam is not tolerated. If you think you may have to miss the final exam, please talk to me as soon as possible. Incompletes will only be allowed to those who have taken all of the midterms, come to class regularly, and are sporting a grade of C- or better. As per senate and Math. Department policies, written documentation etc, required.

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

records after two weeks.

**Calculators:** Following math department policy for 1000 level courses, no graphing calculators will be permitted for use on any quiz, midterm, or final exam. For this policy see, [www.math.umn.edu/arb/ugrad/Calculator.html](http://www.math.umn.edu/arb/ugrad/Calculator.html).

**Drop Date:** If you drop this course before the end of the second week, no mention of this course will appear on your transcripts.

**Grading:**

Homework/Quiz	10%
Tests 1 – 2 – 3	45%
Final Examination	45%

**UNIFORM, COMPREHENSIVE FINAL EXAMINATION,  
MONDAY DECEMBER 16, 13:30 – 16:30**

Place to be announced.

## MATH 1151 (Precalculus II) Fall 2004

### APPROXIMATE SCHEDULE AND SUGGESTED HOMEWORK

Date	Section	Suggested Homework Problems
W 09/08	5.1	p.314 (1–80) Starting with 1 do every fifth, i.e; 1,6,11,16,21,26,..
F 09/10	5.1	p.314 ;81,82,87,89,91,92,95,97,102,105
M 09/13	5.2	p.331 (1–90) Starting with 1 do every fifth
W 09/15	5.2	p.331 105,106,110,111,114.
F 09/18	5.3	p.346 (1–100) Starting with 1 do every tenth; 109–115,121.
M 09/20	5.4	p.359 1–11 all; 17,25,33,39,53,63,67,81,82,83,84,86a.
W 09/22	5.5	p.368 1–11 all; 19,25,31,35a For this problem give detailed reasons!
F 09/24	5.6	p.378 1–12 all; 13,14,15,
M 09/27	5.6	p.378 17,18,19b,25a and p.383, 1–70 do every fourth.
W 09/29		Review of Chapter 5 and p.383, 71,72,72,73,74,75,77,78
F 10/01	TEST 1	(on Chapter 5)
M 10/04	6.1	p.396 1–12 all; 13,27, 33-44 all
W 10/06	6.3	p.407 1–12 all; 35,51,63,81,83,85,86.
F 10/08	6.4	p.416 1–12 all; 15,19,23,31,43,59,69,85,87.
M 10/11	6.5	p.425 1–12 all; 13,23,24,25,47,69,70,74
W 10/13	6.7	p.434 1–10 all; 11,35,43,45.
F 10/15	6.8	p.440 1–15 all; 19,33,57,60.
M 10/18		Review of Chapter 6.
W 10/20	7.1	p.456 1–11 all; 21,31,43,44,47,57,62,64,67,69,71,72.
F 10/22	7.2	p.469 1–12 all; 17,23,29,31,33,37,38,42,43.
M 10/25	7.3	p.476 1–14 all; 25,27,28,31,36,37.
W 10/27	7.4	p.481 1–14 all; 25,26,29,39,40.
F 10/29	8.1	p.507 1–8 all; 9,17,21,29,41,45,49; 65–72 all.
M 11/01	8.3	p.530 1–12 all; 13,23,25,31,32,33,34,35,37,41,43; 51–56 all.
W 11/03		Review
F 11/05		TEST 2 (through and including section 7.4)
M 11/08	3.6	p.205 1–6 all; 10,11,12,13, 23,27,28,35,36,37,47,48
W 11/10	3.6	p.205 71,72,73,74,79,80,81,82,83,85,86; 93-100 all; 101,102,103
F 11/12	3.7	p.211 1–5 all; 11,12,17,18,21,24.
M 11/15	3.7	p.211 25,27,28,29,30,33; 35–38 all
W 11/17	9.1–9.2	p.582 1–8 all; 9,13,17,19,21,23,25,27,29,35, 51,55,59.
F 11/19	9.3	p.593 1–4 all; 5,8,9,15,17,25,31,37,39,41,42,47,57,63,64.
M 11/22	9.4	p.607 1–4 all; 5,7,9,15,17,23,27,29,41,57,58,60,61.
W 11/24	10.1	p.651 1–8 all; 11,13,17,21,29,30,32,43,45,47,55.
F 11/26		THANKSGIVING HOLIDAY
M 11/29	10.2	p.658 1,3,5,7,19,20,23,24,27
W 12/01		Review and Sec 10.7
F 12/03		TEST 3 (through and including section 10.2)
M 12/06	10.8	p.724 1–12 all; 19,25,26,33,34,35,41,42,46,49
W 12/08	11.1	p.750 1–12 all; 13,18,21,29,39,40,59,68,70,71,72
F 12/10	11.2	p.756 1–5 all; 19,25,33,47,49,51,52
M 12/13	11.3	p.766 1–10 all; 11,12,13,25,33,39,51,61,62,64,66,73,77.
W 12/15		REVIEW
Th 12/16	FINAL EXAM	(entire course)