Instructor: Professor Peter A. Rejto.
Lecture: **12:20 pm – 13:10 pm., MWF   AndersonH 270.**
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
website: http://www.math.umn.edu/~rejto

Recitation Instructors:

Disc. 21: Shi, Ke;shixx075@math.umn.edu
Discusion: Th 12:20 pm - 01:10 pm AmundH 240
Office: VinH 526; Office Hours: Th.10:10-12:00,15:30-16:30
Office Tel: 612-624-1824

Disc. 22: Wang, Yi; wangx857@math.umn.edu
Discusion: Th 12:20 pm–13:10 pm, EE/Csci2-260
Office: VinH 550 Office Hours: 3:30-6:30
Office Tel: 612-624-2838
website: http://www.math.umn.edu/~wangx857

Disc. 23: Yu Guowei; yuxxx222@math.umn.edu
Discussion: Th 12:20 pm - 01:10 pm VinH 113
Office: VinH 552 Office Hours:tba
Office Tel: 612-624-5532

Disc. 24: Yu, Guowei; yuxxx222@math.umn.edu
Discussion: Th 13:25 pm–14:15 pm, AmdH 113
Office: VinH 555; Office Hours: Th 10:10am – 11:00am
Office Tel: 624-2527

Disc. 25: Feng, Hao; fengx055@math.umn.edu
Discussion:Th 01:25 pm - 02:15 pm VinH 211
Office: VinH 422; Office Hours: Th 3:45-4:35
Office Tel: 612-625-8553

Textbook: M.Sullivan, Precalculus, Prentice Hall, Seventh Edition.

Prerequisites: $3\frac{1}{2}$ years high school math, or $C-$ or above in Math 1051.In particular, familiarity with operations on fractions is required! Additional information on what you should know before taking Math 1151 can be found at *website:*
http://www.tc.umn.edu/~droberts/

Course Description: This course is the second in a two-course sequence covering the content of a standard precalculus course. **It does satisfy the prerequisites for Math 1271 or Math 1371, as well as the the CLE Mathematical Thinking requirement.** We start with Trigonometry, Chapter 5 of the Sullivan book, and our last

topic is Section 11.3, Geometric Series. For a more specific description of the sections covered, see the APROXIMATE SCHEDULE on p.4 of this syllabus. Note that Sections 6.2; 6.6 and 7.5 are omitted and so are many later sections.

Homework and Quizzes: When we finish a section, please do the problems for that section from the enclosed SUGGESTED HOMEWORK list. Please also go over the problems that we did in class for that section. Homeworks will not be collected in class or graded. However, starting with Friday, September 14, on each Friday we will have a 15 minutes in class quiz at the end of the hour or a test. The quiz problems will be similar but not identical to the ones on the **suggested homework list** or to the ones worked out in class. In fact, we shall work out some of the suggested homework problems in class. If we finish a section on a Monday, then some problems for that section will probably be on the Quiz/Test of the Friday of that week. The rest of the problems will come from previous sections. However, if we finish a section on a Wednesday, then problems for that section will be on the Quiz/Test of the Friday of the following week.

Exams: We will have three 50-minute, closed book, closed notes in-class exams as follows: Friday September 28, Friday November 2, and Friday December 1. Once again, the test problems will be **similar** however **not identical** to the ones on the **suggested homework list**. In general, **these tests will also 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: Regular attendance is expected. You are responsible for all materials covered and all announcements made in class.

Makeup Examinations: There are no make-up exams. If you miss an exam you will be given a score of 0 until you take the final exam. At that time, $\frac{1}{3}$ of your score on the final exam will be substituted for the 0.

Makeup Quizzes: There are no makeup quizzes. However, out of the 9 possible quizzes only the 6 best will count toward your scores.

Guaranteed Grades: If on a given test your scores fall into the following percentages, then you are guaranteed the following grades:

Letter Grade	Upper Percentage	Lower Percentage
A	100	96
A−	95	90
B+	89	86
B	85	82
B	81	80
C+	79	76
C	75	73
C	72	70
D+	69	68
D	67	60

Note that the columns refer to percentages and not to scores. For example, each of the tests will have a maximum score of 160 points. Since, $160 \times .96 = 153.6$, you will need 153 points to get a guaranteed "A". Of course, the real question is what score do you need to get on the final to get an "A" for the entire course. No answer can be given in advance. We will use cut-offs for the final, but these cut-offs will be decided by the entire 1151 team after the

final has been graded. Again, since the maximum possible score on the final will be 300, if your score is above 288 you are guaranteed an "A" on the final. Similarly, if the maximum possible score for course total is 1,000, you will need 960 to get a guaranteed "A".

Quiz and Exam Grading: To receive full credit for quiz and exam problems, you must show the mathematical steps necessary to solve the problems. Your written work is meant to communicate to us what you know about math, not just the answers, so your work must be neat, organized, and complete.

Course Grading:

Quizzes	16%
Tests 1+2+3	42%
Final Exam	42%

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.

Earning Extra Credit: There are no opportunities for earning extra credit points in this course. Your grade will be based solely on your scores on the graded materials, which are quizzes and exams.

Calculators: A \$15, or about that, scientific calculator is sufficient for this course. For specifics of the Math. Department Calculator policy, see:
website: 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.

Complaints Regarding Teaching/Grading: Students with complaints about teaching or grading should first try to resolve the problem with the instructor involved. If no satisfactory resolution can be reached, students may then discuss the matter with Professor Frank, Director of Undergraduate Studies of the School of Mathematics, 115 Vincent Hall.

Withdrawal: If you need to withdraw from the course, be aware of the following: You may drop the course without permission before the end of the eighth week (that is, by 29 October). After that date you cannot drop without permission of the instructor and the Director of Undergraduate Studies of the School of Mathematics. If you drop before the end of the second week of the semester no mention of the course will appear on your transcript; if you drop later, a W will appear on your transcript. Grades of W are subject to the conditions of your college and cannot be given if you take the final exam. If you find that you need to withdraw from the course, contact your adviser immediately, don't just stop coming to class!

Useful Links: I have found the following two links very useful. In fact, many of the statements in this syllabus were adapted from the Math1050 syllabus at the first site:

1. *website:* http://www.tc.umn.edu/˜droberts/

2. *website:* http://tinyurl.com/ywbsnv

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UNIFORM, COMPREHENSIVE FINAL EXAMINATION
FRIDAY DECEMBER 14, 13:30 − 16:30, Place to be announced.

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Note: The FINAL is uniform with reference to all sections of $Math$1151. Hence, you may wish to periodically check the Lectures 30 and 40 websites. That is to say, the website of Professor Alexey V. Zhubr at http://www.math.umn.edu/˜zhubr001

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Approximate schedule and suggested homework list

Date	Section	Page	Suggested problems
W 09/05	5.1	335	11–15, 17–21, 26, 30, 42, 44, 47–50, 61, 65
F 09/07	5.1	335	71–74, 79, 81, 87, 91, 92, 93, 97, 99, 100, 102, 106
M 09/10	5.2	352	1–6, 12, 20, 23, 30, 46, 51, 52, 54, 68, 80, 85, 93
W 09/12	5.2	353	105,106,110,111,114
F 09/14	5.3	367	11–13, 19–21, 27–29, 35, 43, 49, 60, 70, 78, 90, 101, 106, 109, 115
M 09/17	5.4	381	1–8, 10, 11, 14, 17, 19, 25, 33, 39, 53, 57, 71, 83, 84
W 09/19	5.5	392	1–6; 7, 9, 11, 15, 19, 23, 31
F 09/21	5.6	402	1–4, 7–9
M 09/24	5.6	402	15, 16, 21, 24(a,b,c), 28(a,b)
W 09/26	Review	408	3, 6, 7, 9, 25, 32, 50, 62, 68, 72, 80, 82, 93(a,b,c)
F 09/28	TEST #1		
M 10/01	6.1	423	7–12; 13–20, 25, 38, 45, 46
W 10/03	6.3	435	3–8; 9–12, 32, 51, 66, 81, 91
F 10/05	6.4	445	1–8; 9, 15, 21, 23, 25, 31(a,d), 37(a), 38(a), 43, 55, 78, 87
M 10/08	6.5	455	1–6; 10, 20, 21, 35, 45, 57, 69,
W 10/10	6.7	465	3–6; 9, 32, 35, 38, 42, 43
F 10/12	6.8	473	1–5; 15, 16, 27, 34, 49
M 10/15	Review of Chapter 6		
W 10/17	7.1	490	1–8; 10, 11, 20, 21, 31, 33, 43, 45, 53, 74
F 10/19	7.2	502	1–8; 9, 10, 16, 17, 18, 25, 29, 39
M 10/22	7.3	510	1–8; 10, 14, 16, 18, 30, 33, 34.
W 10/24	7.4	516	1–12; 25, 27, 33, 39
F 10/26	8.1	543	1–10; 11–14, 20, 22, 39–43, 55–61, 68, 73
M 10/29	8.3	568	1–10; 11–17, 23, 25, 31, 33, 40
W 10/31	Review		
F 11/02	TEST #2 (through and including section 7.4)		
M 11/05	8.3	568	41, 43, 49, 53, 56, 57, 61
W 11/07	3.6	207	1–10; 11, 12, 21, 29, 33, 39, 47, 50
F 11/09	3.6	207	71, 72, 90, 95, 100, 103, 105
M 11/12	3.7	214	31, 32, 35, 36
W 11/14	9.2	622	1–10; 11, 13, 14, 19, 21, 37, 38, 50, 51, 55, 56
F 11/16	9.3	632	1–6; 13–17, 19, 29, 31, 36, 37, 39, 40, 46, 50, 64
M 11/19	9.4	647	13–17, 19, 29, 31, 35, 36, 39, 40, 45, 51, 54, 61
W 11/21	10.1	696	1–6; 7, 12, 17, 21, 25, 29, 41, 55, 63
F 11/23	THANKSGIVING HOLIDAY		
M 11/26	10.2	713	5, 9, 13, 15, 17, 19, 25, 27, 29, 32, 33, 37, 38, 48
W 11/28	Review and section 10.2		
F 11/30	TEST #3 (through and including section 10.1)		
M 12/03	10.7	766	11–18; 23, 43, 52
W 12/05	10.8	774	1–4, 9–11, 23, 27
F 12/07	11.1	791	9–11, 13, 21–23, 29, 30, 43, 45, 46, 56, 59, 65, 66
M 12/10	11.2–11.3	798	3, 7,13, 21, 30, 35, 39
		808	9, 13, 25, 26, 32, 33, 41, 48, 59
W 12/12	REVIEW		
F 12/14	FINAL EXAM (entire course)		