Math 1151, Precalculus II, Spring 2010, Lec 010

MWF 10:10-11:00, AndH 310

Lecturer: Amy DeCelles

Email: decel004@math.umn.edu
Webpage: www.math.umn.edu/∼ decel004
Office: Vincent 522
Office Phone: 612-624-4143
Office hours: M 1:25-2:15, W 11:15-12:05, F 1:25-2:15

Teaching Assistants: (*all email addresses are @math.umn.edu*)

Ning Wei	Guoyi Xu	Haojie Chen	Nicholas Kirchner
Dis 11, 16	Dis 12, 14	Dis 13	Dis 15
weixx170@math	xuxxx225@math	chen1512@math	kirc0076@math
522 Vincent Hall	552 Vincent Hall	422 Vincent Hall	456 Vincent Hall
(612) 624-4143	(612) 624-5552	(612) 625-8553	(612) 625-0356

Course Prerequisites: Satisfactory score on placement exam or grade of at least C- in 1031 or 1051. If you have any questions about your placement in this course let me know.

Credits and Workload Expectations: (3 credits) Each class hour corresponds to 3 hours of work per week to achieve a C in the course. So, a student taking Precalculus, which meets 4 hours per week, should expect to spend an additional 12 hours per week on coursework outside the classroom. This means that an average student can expect to spend about 16 hours per week on this course. If math is a difficult subject for you then you will have to spend more hours on it.

Course Content: 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.

Course Materials: The following are available at the Coffman Union Bookstore.

- Textbook: *Precalculus*, Michael Sullivan, 8^{th} edition.
- Calculator: A $15 scientific calculator is sufficient for this course. You are not permitted to use a graphing calculator or one that does symbolic manipulation when taking an exam.

Structure of the Course: This course consists of lecture and recitation.

- The MWF **lectures** are the primary source of new material in this course. I will explain the mathematics and provide plenty of examples.
- In the Thursday **recitation sessions** the instructor will go over the most important parts of the lecture, do additional examples to help you with the homework, and answer your questions. Over the course of the semester, you will complete six evaluative exercises in recitation section.

Lecture and Discussion class attendance is strongly suggested for successful course completion. Attendance will not be taken on a regular basis.

Additional Resources: Besides getting help from your instructors and your book, you can get help from the following sources:

- PAL (peer assisted learning) sessions, run by Alex Oenes, a senior engineering major, are a good opportunity to work in groups with your classmates. They are scheduled for Tues 1:25-2:15 and Thurs 4:00-4:50 in 132 Kolthoff Hall.
- SMART Learning Commons offers free math help. See http://smart.umn.edu.

- By the end of the month the undergrad office (Vin 115, ugrad@math.umn.edu) will have a list of private tutors available for hire.

Homework: Each week you will have a problem set, typically due on Monday in lecture and returned in recitation. Each section of homework problems be worth 5 points, partial credit being given on the basis of the percentage of the homework that is properly completed showing the necessary work. To receive full credit for homework and exam problems, your work must be neat, organized, and complete.

Evaluative Exercises: You will have six 20-30 minute evaluative exercises over the course of the semester, each given in recitation section. (Please see the attached course schedule for the dates.) The purpose of the evaluative exercises is to give you an opportunity to practise doing problems in test conditions and receive feedback on your work. Each evaluative exercise is graded on a pass/fail/high pass basis.

Final Course Grade: The final grade for this course will be computed from your exam scores and homework, weighted as follows:

- Homework (10%): weekly problem sets
- Evaluative Exercises (10%): in recitation, six 20-30 minute exercises
- Exam 1 (15%): in-class, Fri Feb 5
- Exam 2 (15%): in-class, Fri Mar 12
- Exam 3 (15%): in-class, Fri Apr 30
- Final exam (35%): (room TBA) Mon May 10, 1:30-4:30: cumulative

There will be no extra credit work.

Make-up midterm exams will be given to students with legitimate excuses such as verified illness, University sponsored events, etc., as long as the make-up exam can be taken within one week of the in-class exam. If it is not possible to schedule a make-up within one week, the grade for the midterm will be prorated from the final exam. Written documentation is required.

Letter grades will most likely be assigned as follows (these cuts MAY be modified downward based on the final exam, but will NOT be raised upward):

Grade	**Score needed**	
A	90-100	achievement exceptionally exceeding course requirements
B	80-90	achievement significantly exceeding course requirements
C	70-80	achievement meeting course requirements in every respect
D	60-70	achievement worthy of credit but not fully meeting course requirements
F	0-60	failure to meet course requirements

Incompletes: Grades of I are normally not given in this course. However, they may be permitted due to extenuating circumstances. In those cases a well-documented petition is required and the grade of I is subject to the approval of the Director of Undergraduate Studies of the Department of Mathematics.

Withdrawals: 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, dont just stop coming to class!

Disability Accommodations: Reasonable accommodations will be provided for students with disabilities on an individualized and flexible basis. Disability Services determine appropriate accommodations through consultation with the student. More information is available at http://ds.umn.edu/

University Policies: For University policies regarding student conduct, harassment, complaints regarding teaching/grading, scholastic dishonesty, equity, diversity, equal opportunity, and affirmative action, use of personal electronic devices in the classroom, appropriate student use of class notes and course materials, grading and transcripts, please see the handout on my website.