

MATH 1101 Syllabus and Class Log
(Call Numbers 00-608, 10-609), Spring 2005

Instructor

- **Dr. Lingyun Ma**, Department of Mathematics
Office hours: 2:30--3:00pm M,W, 1:30--3:00pm Thursdays or by appointment
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Class Meetings

- Fifth Period (12:20--1:10pm), MWF, 328 Boyd GSRC
- Sixth Period (1:25am--2:15pm), MWF, 328 Boyd GSRC

Course Description

An introduction to mathematical modeling based on the use of elementary functions to describe and explore real-world data and phenomena. Graphical, numerical, symbolic and verbal approaches to the investigation of data, functions, equations, and models. Emphasis on applications and the ability to construct useful mathematical models, to analyze them critically, and to communicate quantitative concepts effectively.

This course is NOT meant to prepare students for Math 1113 (Precalculus).

Course Materials

- Text: *Elementary Mathematical Modeling, Functions and Graphs*, by Davis and Edwards, available at the University Bookstore.
- Texas Instruments Graphing Calculator TI-82 or TI-83. While one can complete this course using a TI-85 or TI-86, This is not recommended. You cannot use a TI-81 for this course.
- Students are expected to have their calculators with them during each class.

Course Web Site

- <http://www.math.uga.edu/undergraduate/1101.html>

Course Outline

- The course is divided into 4 components:
 - Chapter 1
 - Chapter 2
 - Chapter 3 and Section 4.1
 - Chapter 8

Each component will have an hour exam at the end. Students are required to have their calculators on the test day. **No make-up exams except for university approved activities, these must be scheduled in advance!** The lowest hour test score will be replaced by the final exam score if the final exam score is higher.

There will also be short unannounced quizzes given in class. Quiz questions will be similar (but not identical) to assigned homework problems from the text. Students are expected to have their calculators with them during each class. **NO** make-up quiz will be given. At the end of the semester the two lowest quiz grades will be dropped. The remaining quiz average will be counted as 15% of the course grade.

- Hour Tests
 - Feb. 4----Feb. 25----Apr. 6----Apr. 27
- Final Exam
 - 12:00-3:00pm, Wednesday, May 4, 2005 for 12:20pm class
 - 12:00--3:00pm, Friday, May 6, 2005 for 1:25pm class.
- Grading Scale

F < 60 < =D < 70 < = C < 80 < = B < 90 < = A

15% Quizzes --- 15% Project --- 50% Hour Tests --- 20% Final Exam

- Students are allowed no more than 5 absences including both excused and unexcused absences. On the sixth absence a student may be withdrawn from the course with a grade of W or WF (definitely WF after midpoint). Do not regard these 5 allowed absences as "personal free days". These are only to be used in cases of illnesses or family emergencies. In some cases, verification may be required.
- All students are responsible for maintaining the highest standards of honesty and integrity in every phase of their academic careers. The penalties for academic dishonesty are severe and ignorance is not an acceptable defense. For more information, please check the website http://www.uga.edu/ovpi/academic_honesty/culture_honesty.htm, particularly sections 5 and 7.
- The course syllabus provides a general plan for the course; deviations may be necessary.

Tentative Schedule for Math 1101 ---- Spring 2005, Dr. Ma

Assignments	Monday	Tues.	Wednesday	Thurs.	Friday
week 1. Jan. 10--14	Introduction		Section 1.1		Section 1.2
week 2. Jan. 17--21	MLK Holiday		Section 1.2		Section 1.3
week 3. Jan. 24--28	Section 1.3		Section 1.4		Section 1.4
week 4. Jan.31--Feb.4	Section 1.4		Review		TEST I
week 5. Feb. 7--11	Section 2.1		Section 2.1		Section 2.2
week 6. Feb. 14--18	Section 2.2		Section 2.2		Section 2.3
week 7. Feb. 21--25	Section 2.3		Review		TEST II
week 8. Feb.28--Mar.4	Section 3.1		Section 3.1		Section 3.2
week 9. Mar. 7--11	Section 3.2	Midpoint withdrawal deadline	Section 3.3		Section 3.3
week 10. Mar.14--18	Spring Break		Spring Break		Spring Break
week 11. Mar. 21--25	Section 3.4		Section 3.4		Section 4.1
week 12. Mar. 28--Apr. 1	Section 4.1		Section 4.1		Project 1
week 13. April 4--8	Review		TEST III		Project 2
week 14. April 11--15	Section 8.1		Section 8.2		Section 8.2
week 15. April 18--22	Section 8.2		Section 8.3		Section 8.3
week 16. April 25--29	Review		TEST IV		Review
week 17. May 2--6	Review	Reading Day	Final Exam noon--3pm for 12:20pm class		Final Exam noon--3pm for 1:25pm class

Last Revised: Jan. 8, 2005