MATH 1101 Syllabus (Call Numbers 60007, 00009), Spring 2004

Instructor

- Dr. Lingyun Ma, Department of Mathematics
  Office hours: 1:00--2:00pm MW, 2:00--3:00pm TR or by appointment
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Class Meetings

- Second Period (9:30--10:45am), TR, 328 Boyd GSRC
- Third Period (11:00am--12:15pm), TR, 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, 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 5 short qizzes given in class on the days that were marked by * in the following schedule. 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 lowest quiz grade will be dropped. The remaining quiz average will be counted as 15% of the course grade.

- Hour Tests
  - Feb. 3----Feb. 24----Apr. 1----Apr. 22
- Final Exam
  - 8:00--11:00am, Thursday, May 6,2004 for 9:30am class
  - 12noon--3:00pm, Tuesday, May 4, 2004 for 11:00am class.
- Grading Scale

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

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

- 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 and Assignments for Math 1101 ---- Spring 2004, Dr. Ma

Week	Mon.	Tues.	Wed.	Thurs.	Fri.
1. Jan. 5--9				Section 1.1	
2. Jan. 12--16		Section 1.2		Section 1.3	
3. Jan. 19--23	MLK Holiday	Section 1.3		Section 1.4	
4. Jan. 26--30		*Section 1.4		Review	
5. Feb. 2--6		TEST I		Section 2.1	
6. Feb. 9--13		Section 2.2		*Section 2.2	
7. Feb. 16--20		Section 2.3		Review	
8. Feb. 23--27		TEST II		Section 3.1	
9. Mar. 1--5		Section 3.2		*Section 3.3	Midpoint
11. Mar. 8--12	Spring	Break		Spring	Break
10. Mar. 15--19		Section 3.3		Section 3.4	
12. Mar. 22--26		Section 4.1		*Project 1	
13. Mar. 29--Apr.2		Review		TEST III	
14. Apr.5--9		Project 2		Section 8.1	
15. Apr.12--16		Section 8.2		*Section 8.3	
16. Apr. 19--23		Review		TEST IV	
17. Apr. 26--30		Review Last class			Reading Day
18. May 3--7		Final 12noon--3pm for 11:00am class		Final 8--11am for 9:30am class	

Last Revised: Jan. 8, 2004