

MATH 1101 Syllabus  
Fall 2006  
Mathematical Modeling

Instructor: Dr. Calvin M. Burgoyne  
642 Boyd Graduate Studies  
542-5021

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Office hours: T/Th 8-11 (you may make an appointment to see me at other times)

Class Meetings: M/W/F 10:10 – 11:00  
M/W/F 11:15 – 12:05  
328 Boyd Graduate Center

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 is not meant to prepare students for Math 1113 ( Pre-calculus ).**

Text Book: Elementary Mathematical Modeling Functions and Graphs by Davis and Edwards.

Student Supplies Needed: **Texas Instruments Graphing Calculator TI-83.** While one can complete this course using a TI-85, or 86 This is not recommended. You cannot use a TI-81 for this course.

Pack of 3" by 5" index cards for in class quizzes

Hour Tests: Exam # 1 Wednesday Sept. 13  
Exam # 2 Wednesday Oct. 4  
Exam # 3 Wednesday Nov 8  
Exam # 4 Friday Dec. 1

Course Project due dates: Part 1 Friday Sept. 1  
Part 2 Friday Sept. 15  
Part 3 Friday Oct 20  
Final project due Tuesday Dec. 5

Late papers will not be accepted! Do your work early to avoid last minute disasters!

In Class Work: Between 10 & 12 unannounced quizzes and a few short assignments. No make-up quizzes will be given, I will drop the lowest quiz score.

Final Exam: 10:10 Class: Friday Dec. 8 8:00 – 11:00

11:15 Class: Monday Dec 11 12:00 – 3:00

Grading Scale: F < 60 < D < 70 < C < 80 < B < 90 < A < 100

15% Class work --- 15% Projects --- 50% Hour Tests --- 20% Final Exam

No make-up exams except for university approved activities, these must be scheduled in advance! Your lowest exam score will be replaced by your final exam score if the final exam is higher.

Software:

The necessary Microsoft Office software, Excel and Word, is installed on all of the windows computers in the various computer labs on campus.

Of course, you should adhere to UGA's Academic Honesty Policy, as described on the web-site: <http://www.uga.edu/vpaa/polproc/ahpol/main.html>

You are expected to attend class. If you have 6 absences you will be dropped from the course!

Changes to this syllabus may become necessary as the term goes on.