

Syllabus

Instructor Information

Name: Mr. Reichle
Email: kurt@math.uga.edu
Office location: 603C Boyd GSRC
Office hours: TR 12:30 - 2:00; W 11:00 - 2:00
Phone: 706-542-2588

Course Information

Course title: Mathematical Modeling

Course number: MATH1101

Course discipline: Mathematics

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. The course is not meant to prepare students for Math 1113 (Precalculus).

Textbooks

Required reading: *Elementary Mathematical Modeling, Functions and Graphs*, Davis, Mary Ellen and Edwards, C. Henry, Prentice Hall, 2007

Course Requirements

Requirements: Texas Instruments Graphing Calculator TI-83 (or TI-82 or TI-84). While one can complete the course with a TI-85 or TI-86, it is not recommended. You cannot use a TI-81 for this course. Students are expected to have their calculators with them during each class.

Test Information

Test Dates:: Test 1(Ch 1 & 2): Sep 1, Test 2(Ch 3): Oct 9, Test 3(Ch 4.1 & 5): Nov 6, Test 4(Ch 6): Nov 29

Test Procedures: Students are required to have their calculators on test days. Makeup tests are given at the discretion of the instructor and in general will need documentation. Students missing a test must contact the instructor before the next class meeting, and the test must be taken before the tests are returned to the class.

Quiz Information

: There will be several announced quizzes given in class. Quiz questions will be similar (but not necessarily identical) to assigned homework problems from the text. No makeup quizzes will be given. Thus any absence on a quiz day, excused or not, will result in a quiz grade of 0. At the end of the semester, 25% of the quiz scores will be dropped.

Final Exam Information

: The Final for the 9:30 class is Thursday, Dec 13, 8 - 11 am. The Final for the 11:00 class is Tuesday, Dec 11, 12 - 3 pm.

Grading Scale

: F < 60, 60 <= D <= 69, 70 <= C <= 72, 73 <= C <= 76, 77 <= C+ <= 79, 80 <= B <= 82, 83 <= B <= 86, 87 <= B+ <= 89, 90 <= A <= 92, 93 <= A <= 100.

Grade Computation

: Quizzes 15%, Hour Tests 50%, Project 10%, Final Exam 25%.

Withdrawal

: Students are allowed no more than 3 absences including both excused and unexcused absences. On the fourth absence a student may be withdrawn from the course with a W or WF (WF after the midpoint deadline of March 1). Do not regard these 3 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.

Academic Honesty <http://www.uga.edu/ovpi/honesty/academic.htm>

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- All academic work must meet the standards contained in "A Culture of Honesty." Students are responsible for informing themselves about those standards before performing any academic work. All academic work submitted in this course must be your own unless you have received my permission to collaborate and have properly acknowledged receiving assistance. It is my responsibility to uphold the University's academic honesty policy and report my belief of dishonesty to the Office of Vice President for Instruction.