

**MATH 1101**  
**Mathematical Modeling (3 hrs.)**  
**Mathematics Department**  
**Valdosta State University**

**REQUIRED TEXT:** College Algebra: In Context: with applications for the managerial, life & social sciences (6th Edition) by Harshbarger and Yocco; access code to MyMathLab also required. (Available through Day-1 in Blazeview.)

**CALCULATOR:** TI-83, TI-83+, TI-84, or TI-84+ **(REQUIRED)**

**COURSE DESCRIPTION:** A study of algebraic topics from a modeling perspective using different types of functions including linear, quadratic, polynomial, exponential, and logarithmic. Emphasis is on gathering, presentation, and interpretation of data by using real-world examples as models.

**LEARNING OUTCOMES:** Upon successful completion of this course, students will be able to:  
(1) represent quantitative relationships from a variety of applications, appropriate mathematical models, and use such models to solve real-world problems;  
(2) extract, express, manipulate, and evaluate quantitative information in algebraic, graphical, numeric, and verbal form; and  
(3) use appropriate technology to manipulate and evaluate quantitative information.

**VSU GENERAL EDUCATION OUTCOMES:**

(Area 1, 3, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100)

