

**MATH 0998**  
**Support for Mathematical Model Placement into course by University**

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**Co-requisite: MATH 1101.**

**REQUIRED TEXT:** No additional Math 1101 is a Day 1 course and all needed electronic materials will be available on the first day of class. A code for this support course will be available from the instructor.

**CALCULATOR: TI-83, TI-83+, TI-84, or TI-84+ (REQUIRED Same as Math 1101)**

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**COURSE DESCRIPTION:** Corequisite support to provide essential quantitative skills needed to be successful in Math 1101. (This course will be taught by the same Math 1101 instructor.)

**\*\*\*NOTE:** Learning outcomes, education outcomes, and course outline are the same as for MATH 1101. MATH 0998 by itself does not cover these topics per se but serves as support for students who are taking MATH 1101.

**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 A2)

Students will demonstrate mathematical proficiency by analyzing a variety of functions and solving various equations.

(Critical Thinking)

Students will identify, evaluate, and apply appropriate models, concepts, or principles to issues, and they will produce viable solutions or make relevant inferences.

**COURSE OUTLINE: (Based on 45 sessions, 3 days per week)**

Chapter/Section	Topics	Suggested Days
Calculator* arithmetic, 1.1, 1.2, 1.3, 1.4  * Each instructor will prepare a handout for introduction for basic calculator arithmetic (evaluating expressions with a calculator).	Calculator* arithmetic Functions and models Graphs of functions Linear functions Equations of lines	10 - 12

2.1, 2.2, 2.3, 2.4

Algebraic and graphical solution of linear equations  
 Fitting lines to data points 0 12 .04 0.78 0.39 (reW6 6.  
 System of linear equations in two variables  
 Solutions of linear inequalities