

Fall 2018

Instructor: C. M. Staniunas

**Math 111 Mathematical Models for the Management Sciences**

**Note: Students who have received credit for Math 112 or higher may not take this course. Students must receive a C or better in Math 111 or INQ 240 to declare a major in Business Administration.**

Office: 161 D Trexler Hall

Office hours: MWF 8:30-10:30am and 12-1 pm  
TTh 10:00am-noon

Phone: 375-2010, e-mail: staniuna@roanoke.edu

Course Objective: to provide the background in the quantitative techniques necessary to better understand advanced courses in Business and Economics.

Learning Outcomes: Upon completing this course, the student will be able to:

- Solve linear equations in one or more variables
- Solve applied problems using linear equations
- Solve systems of linear equations using graphing, substitution, elimination, or matrix methods
- Solve quadratic functions and use them in applications
- Solve systems of linear inequalities in two variables
- Use graphical methods and the simplex method to solve linear programming problems
- Find the derivatives of functions
- Use derivatives in business applications

Text: Mathematical Applications for the Management, Life, and Social Sciences, tenth edition, by R. Harshbarger and J. Reynolds.

Calculator Requirement: All students will need a **graphing** calculator for this course, preferably a TI-83 or TI-84  
Other electronic devices NO!

<b>Tentative</b>	<b>Test Schedule</b>
Test 1	Sept. 19
Test 2	Oct. 10
Test 3	Nov. 7
<b>Exam block 5</b>	<b>Wed. Dec 12 2-5pm</b>
<b>Exam block 6</b>	<b>Tues. Dec. 11 2-5pm</b>

If illness or family emergency causes you to miss a test, notify me. You will be expected to take it as soon as possible, preferably within 48 hours Also, please note that arrangements for extended time on testing in a distraction-reduced environment must be made at least one week *before every test*.

**Subject Tutoring**, located on the lower level of Fintel Library (Room 5), is open 4 pm – 9 pm, Sunday – Thursday. We are a Level II Internationally Certified Training Center through the College Reading and Learning Association (CRLA). Subject Tutors are highly trained Roanoke College students who offer one-on-one tutorials in a variety of general education and major courses. Tutoring sessions are available in 15, 30, or 45-minute appointments. Feel free to drop by for a quick question or make an appointment at [www.roanoke.edu/tutoring](http://www.roanoke.edu/tutoring) for a longer one-on-one appointment. For questions or concerns, contact us at 540-375-2590 or [subject\\_tutoring@roanoke.edu](mailto:subject_tutoring@roanoke.edu).

**Accessible Education Services (AES)** is located in the Goode-Pasfield Center for Learning and Teaching in **Fintel Library**. AES provides reasonable accommodations to students with documented disabilities. To register for services, students must self-identify to AES, complete the registration process, and provide current documentation of a disability along with recommendations from the qualified specialist. Please contact Laura Leonard, Assistant Director of Academic Services for Accessible Education, at 540-375-2247 or by e-mail at [aes@roanoke.edu](mailto:aes@roanoke.edu) to schedule an appointment. If you have registered with AES in the past and would like to receive academic accommodations for this semester, please contact Laura Leonard at your earliest convenience to schedule an appointment.

Grading Policy:

Average of homework, classwork, quizzes	15%
Tests	20% each
Comprehensive Final exam	25%

Your final grade will be computed using the percentages above. Grades will be assigned thus:

A 93-100	B- 80-82	D+ 67-69
A- 90-92	C+ 77-79	D 63-66
B+ 87-89	C 73-76	D- 60-62
B 83-86	C- 70-72	F under 60

Attendance Policy: If you miss four hours of class after the add date, you may be dropped from the course OR have one point deducted from your final grade for each absence after four.

**You are expected to spend 12 hours per week working for this class (3 hours in class, 9+ hours outside of class).**

One of your assignments will be to attend one of the MCSP colloquia and complete a reaction form about what you learned. I will provide a schedule as soon as possible.

**Academic Integrity:** You are expected to be familiar with the Academic Integrity Code outlined in the booklet **Academic Integrity at Roanoke College**. In this class, you shall not cheat on tests or quizzes or collaborate on any assignment having the words “work independently” on it.