

Spring 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: 40am, 12-1pm ,  
TTh 10:10am-noon

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

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 cell phones or laptops.

#### **Tentative Test Schedule**

Test 1 Feb. 7

Test 2 Feb. 28

Test 3 Mar. 28

**Final Exam Mon. Apr. 30, 2pm (block 5)**

**Tues. May 1, 2pm (block 6)**

**Don't leave school before your exam**

If illness or family emergency causes you to miss a test, notify me. You'll 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*.

#### Grading Policy:

Homework and quizzes 15%

Tests 20% each

Final exam 25% it IS comprehensive

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. The schedule and reaction form will be posted on our Inquire page.

**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.

Course Objective: to provide the background in the quantitative techniques necessary to better understand more 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

**Subject Tutoring** is an Internationally Certified Tutoring Center through the College Reading and Learning Association (CRLA). Our highly trained staff offers individual tutoring appointments for the following subjects: Business, Economics, Mathematics, Modern Languages, Lab Sciences & Social Sciences. Subject Tutoring is located on the lower level of Fintel Library in room 05 from 4-9 p.m. Sun.-Thurs. Students can logon to make an appointment at [www.roanoke.edu/tutoring](http://www.roanoke.edu/tutoring) in 15, 30 or 45 minute intervals. For questions or concerns, please contact Shannon McNeal at 540-375-2247 or [mcneal@roanoke.edu](mailto:mcneal@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 Dr. Sue Brown, Director of Academic Services and Acting Coordinator of Accessible Education Services, at 540-375-2247 or by e-mail at [sbrown@roanoke.edu](mailto:sbrown@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 Dr. Brown at your earliest convenience to schedule an appointment.