Math 111-Sections A and B -Mathematical Models for the Management Sciences    Spring, 2009


Instructor: Kathy Bauman-161B Trexler Hall
Office Hours: M, W, F: 11:00 AM – 2:00 PM. These hours are for both my Math 111 students and my Stat. 101 students. I will add hours as necessary. I will also schedule hours on T/Th. as needed for individual classes.
Office Phone: 375-2450
Home Phone: 772-3339
E-mail address: bauman@roanoke.edu

Needs: Calculator (you will need a graphing calculator-be able to use your calculator!), graph paper, and notebook. The calculator is a tool in your work-much of your work will be done without a calculator. I want class notes and assignments organized in a 3-ring binder. It is your responsibility to get any notes that you miss and to complete all assignments given. You must get these notes before seeing me for help. I want you to keep homework assignments separate from your notes in the three-ring binder. I will discuss organization of this in terms of my expectations.

Course Objectives
1. To give the student an understanding of the basic theory and application of matrices, linear programming, and differential calculus.
2. To increase the student’s skills in using mathematics to solve problems: in particular, to increase the student’s ability to construct models of problems that arise in many areas, especially in the management sciences, to increase his/her ability to solve the models using mathematical concepts covered in this course.
3. To increase the student’s ability to make judgments about problems and solutions to problems based on a mathematical model.
4. To increase the student’s understanding of the role of mathematics in the management sciences.

Topics: Matrices, linear programming, limits and continuity, derivatives, and optimization. A short review section (Chapter 0) will be done. It is expected that you will be competent in terms of Algebra I and Algebra II skills.

Academic Integrity: You are expected to be familiar with the Academic Integrity Code outlined in the booklet, Academic Integrity at Roanoke College. I take this topic very seriously. Work shall be your own. The use of any electronic device during a quiz or exam is strictly prohibited. This includes PalmPilots, Pocket PCs, and Blackberrys. Any use of such devices during a quiz or exam will be considered a breach of academic integrity. Basic handheld calculators may be used on certain quizzes and exams only when permitted by the instructor.

Cell phones and pagers must be turned off prior to entering the classroom. You are not to either send or receive text messages during class!!!

Grading Policy: Your grade in this class will have 3 components: tests and exams, quizzes, and homework/attendance at presentations.

Homework will be given daily and graded both on effort and correctness/completeness. Effort grades may be assigned at any time. I will grade homework on correctness after you have been evaluated on the subject matter. This grade will be weighted twice that of an effort grade. A homework grade will never be dropped. Also, you will be required to attend a scholarly talk and to submit a one-page paper concerning that presentation. (Schedule will be provided as soon as it becomes available. I will also post my expectations for a reflection paper.) Homework will count as 10% of your final grade and your attendance/paper will count 2% of the final grade.

Quizzes will be given frequently. I will give 6-8 quizzes counting 50 points each but I will drop 100 points at the end of the semester. The quiz average will count 17% of your final grade. Make-up
quizzes will be given only under the most dire of circumstances! This is a topic that we will need to communicate about during the semester.

I am anticipating three tests—each counting 17% of the final grade. The final exam will be comprehensive and will count 20% of your final grade.

Grades will be assigned using this scale:

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**Attendance Policy**: Attendance is expected! You are responsible for all work done in classes that are missed. I will expect homework to be done for these classes. Information on assignments will be posted daily on Blackboard. If you miss 6 classes, you may be dropped from this course. Please see me if you have questions concerning this policy. Communication on this topic is extremely important. I do not consider absences as excused or unexcused!

**I also feel strongly about students being on time to class. Two tardies will count as one absence. It is your responsibility to make sure these are recorded correctly!**

**Use of Blackboard**: I will use Blackboard to communicate with you often. Assignments and announcements will be posted daily and grades will be recorded there. However, Blackboard will not be used to calculate grades. It is only used as a recording tool. I will also post keys for you. If you have trouble using Blackboard, please contact the Help Desk. I will frequently e-mail information to you so please check Blackboard and e-mail daily.

**Exam Schedule**: Block 1: April 28th: 8:30-11:30  
Block 2: April 23rd: 2:00-5:00

**Special Needs**: If you qualify for special services through Academic Services, please schedule a time to talk with me concerning your needs.

**Note**: Material, content, scheduling, and evaluation method may be changed if instructor deems it necessary.

This course may not be taken for credit if credit has been received for Mathematics 112 or higher. If you have questions concerning this, please contact your advisor immediately. Also, you need to earn a C or better in this course to declare a major in Business Administration.