

MATH 104 FINITE MATHEMATICS

Syllabus

Instructor: Dr. Smith
E-mail: drsmithASC@yahoo.com
Address: 3578 East Hartsel Drive #124
Colorado Springs, CO 80920

CREDIT HOURS:

Three Semester Hours

PREREQUISITES:

MATH 099 minimum grade: P
OR Math Placement Test minimum score: 23
OR ACT Math minimum score: 19
OR SAT Math minimum score: 440
OR ACCUPLACER Elementary Algebra minimum score: 109

COURSE MATERIALS:

Required Textbook:

Lial, Margaret L., Greenwell, Raymond N., Ritchey, Nathan P. *Finite Mathematics*, 9th Edition. Addison-Wesley, 2008. ISBN-10: 0321428293, ISBN-13: 9780321428295

CATALOG DESCRIPTION:

Topics covered include functions and their graphs, matrices, linear programming, probability, and descriptive statistics. Applications are studied from the areas of business, behavioral sciences, economics, and the social sciences.

The **goal** of this course is to improve and enhance the basic math skills of the student, specifically in the areas of graphs, matrices, probability, and statistics.

The **purpose** of the course is to provide a wider perspective of applied mathematics, how it works, and why and how it is utilized in the real world. This is imperative to the student no matter what the field of study and completes the mathematics requirement for several degree programs.

STUDENT LEARNING OUTCOMES:

The student will:

- Solve a variety of mathematical problems using techniques presented in the content outline.
- Use mathematical methods in making everyday decisions.
- Use mathematics to interpret and analyze data.
- Demonstrate critical thinking skills appropriate to a college-level mathematics class.

COURSE REQUIREMENTS:

There are seven lessons, each requiring assigned exercises to be submitted to the instructor. The student will complete three proctored exams within the two-hour time limit and one proctored final exam within two-hour time limit.

GRADE DISTRIBUTION AND SCALE:

In alignment with ASC academic policies, no D may apply to a major or minor field.

Grade Distribution:

Written Homework	200 points
Exam I (Lessons 1-2)	200 points
Exam II (Lessons 3-4)	200 points
Exam III (Lessons 5-7)	200 points
Comprehensive Final Exam	<u>200 points</u>
Total Points	1,000 points

Scale:

90-100%	A
80-89%	B
70-79%	C
60-69%	D
59% and below	F

COURSE INSTRUCTIONS

After completing each assignment, please mail them directly to your instructor. If assignments are received stamped postage due, the assignment will be returned. If you would like your graded assignments returned, please enclose a self-addressed stamped envelope with sufficient postage.

You may e-mail your assignments to me as Microsoft® Word attachments. You may send them via U.S. Postal Service mail, too. When you send your work to me, please continue to follow our syllabus. I will return all your work as soon as possible.

All exams must be proctored and are timed. All exam questions are similar to homework questions. You will not have multiple choice or true/false questions. Partial credit can be earned if you show your work. There will be 10-17 questions on each exam. You will have two hours to complete each exam. You may use one 8.5 x 11-sheet with notes for each exam as well as a calculator, which does not calculate payments, interest, etc. Please refer to the Guidelines for Proctored Exams and submit your Exam Request Form three weeks BEFORE you plan to take the exam.

If you have any questions, concerns, problems, or any other issues, please contact the instructor immediately.

Remember that this class is teaching you how to teach mathematics, so the process of showing the answer is more important than the answer itself. Students have different learning styles; this is why you will learn multiple methods of solving problems. One method will not work for all students. Knowing more than one will make you and your students more successful.

ADA Statement:

Students who need special accommodation to complete this class should contact the instructor and the Office of Student Affairs, 719.587.7221 as soon as possible.