

MATH 1050, COLLEGE ALGEBRA

SUMMER 2010 SYLLABUS, SECTION 2

12:30-2:30 MTWRF IN SC 227

Instructor: Dr. Jim Brandt

Office: ELC 403

Office hours: MTWRF 11:30 to 12:30 and by appointment

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Course description: This course explores the concept of functions: polynomial, rational, inverse, logarithmic and exponential; with an emphasis on graphing. Solving systems of equations using matrix methods is covered along with conic sections. Other topics may include sequences, mathematical induction and the binomial theorem. The course involves the extensive use of graphing calculators.

Prerequisite: A Math ACT of 23, a grade of "C" or better in Math 1010 or equivalent.

Content: This course is designed to strengthen your skills in working with functions and their graphs. In working towards this goal, we will explore concepts and computations related to a variety of different mathematical topics:

- polynomials and their roots
- rational functions
- exponential functions and logarithms
- conic sections
- matrices and systems of equations.

Textbook: College Algebra by Michael Sullivan, 8th edition.

Calculator: A graphing calculator is required.

Grading: Four exams will be given during the semester, and each will account for 15% of your grade. The final exam will account for another 20%. Approximately ten problem sets will be distributed and collected during the semester, and the total score on the problem sets will contribute the remaining 20% of your grade. Textbook exercises will be assigned daily, but will not be collected or graded. However, they will be discussed daily and it is essential to keep up with this work. A student's letter grade will be based on the following:

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

Disclaimer: Information contained in this syllabus, other than the grading, late assignments, makeup work, and attendance policies, may be subject to change with advance notice, as deemed appropriate by the instructor. Changes will be announced in class.

Suggestions: Learning mathematics requires time, patience, and effort. Keeping up with assigned textbook exercises will spread out your time, patience, and effort, and will allow you to have a successful learning experience. In this regard, I expect you to come to class and to have completed all assignments prior to class. If you are having difficulties, please come and talk to me, form a study group, or take advantage of the free tutoring at the Student Success Center (<http://www.suu.edu/ss/acdc/tutoring.html>).

Policies:

Attendance Attendance is expected and is crucial to understanding the material. However, there is no separate score for attendance.

Assignments Make-up exams will be given only with a valid excuse, and this possibility should be discussed with me prior to the exam except in extreme circumstances. A maximum of two problems sets will be accepted late (within one weekday of the due date).

Academic conduct Scholastic dishonesty will not be tolerated and will be prosecuted to the fullest extent. You are expected to have read and understood the current issue of the student handbook (published by Student Services) regarding student responsibilities and rights, and the intellectual property policy, for information about procedures and about what constitutes acceptable oncampus behavior.

Disability support Students with medical, psychological, learning, or other disabilities desiring academic adjustments, accommodations or auxiliary aids will need to contact the Disability Support Center, Room 205D, Sharwan Smith Center, phone (435) 865-8022. The Disability Support Center determines eligibility for and authorizes the provision of these services and aids.

TENTATIVE SCHEDULE:

Week	Topics	Notes
July 5	Linear and quadratic equations (chpt 1) Graphs in the plane (chpt 2)	7/5 - Independence Day
July 12	Functions and their graphs (chpt 3) Graphing polynomials (chpt 5)	7/12 - Exam 1 at 1:30
July 19	Rational functions and root finding (chpt 5) Composition and inverses (chpt 6)	7/19 - Exam 2 at 1:30 7/23 - Pioneer Day
July 26	Exponentials and logarithms (chpt 6) Systems of equations (chpt 8)	7/26 - Exam 3 at 1:30
Aug 2	Matrices and systems (chpt 8) Conics (chpt 7) and Sequences (chpt 9)	8/2 - Exam 4 at 1:30 8/6 - Final Exam at 12:30

Mathematics is not a careful march down a well-cleared highway, but a journey into a strange wilderness, where the explorers often get lost. W. S. Anglin

Any impatient student of mathematics or science or engineering who is irked by having algebraic symbolism thrust upon him should try to get along without it for a week. Eric Bell

Neglect of mathematics works injury to all knowledge, since he who is ignorant of it cannot know the other sciences or the things of the world. Roger Bacon