

College Algebra
(MATH 1023)
Fall 2007

Professor: Paul Bailey

Office: WIL 228

Office Hours: MTWRF 11 am to 12 noon; MWF 1 pm to 2 pm

Web Site: <http://www.saumag.edu/pbailey>

Email: plbailey@saumag.edu

Book: *College Algebra*, 8th edition, by Michael Sullivan

Grade Components

Homework: 10%

Worksheets: 10%

Quizzes: 30%

Exams: 30%

Final: 20%

Homework exercises from the textbook will be assigned daily to be completed before the next class. Write your name, the assignment, and the statement of every problem on your homework. Staple together pages from the same homework assignment. Turn in your homework at the beginning of the next class.

Worksheets will be posted on the web site, to be printed and completed by the students when they are assigned. This consists of practice in analyzing functions in a manner sufficient to sketch its graph.

There will be a quiz or exam almost every Friday. This includes 8 half hour quizzes, four of which are test-generated and will allow calculators, and four of which will be open response or involve graphing without calculators. There will also be two assessment quizzes.

There will be two one hour examinations containing open response problems based on the lectures. The final exam will be produced by the mathematics department; it will be cumulative, and allow calculators. The final examination has been scheduled by the university for Thursday, December 13, 2005.

Calculators can be detrimental to the study of mathematics, and should be used with extreme caution. Never ask the calculator to do something without understanding how to do it yourself.

Course Outline

Week	Beginning	Topic	Sections
Week 1	Aug 27	Real Number Line	R.1, 1.1
Week 2	Sep 3	Real Variables	1.2, 1.3
Week 3	Sep 10	Cartesian Plane	2.1, 2.2, 2.3, 2.4
Week 4	Sep 17	Functions	3.1, 3.2, 3.3
Week 5	Sep 24	Functions	3.4, 3.5, 4.1
Week 6	Oct 1	Quadratic Functions	4.3
Week 7	Oct 8	Polynomial Functions	5.1
Week 8	Oct 15	Polynomial Functions	5.5, 5.6
Week 9	Oct 22	Rational Functions	5.2
Week 10	Oct 29	Rational Functions	5.3
Week 11	Nov 5	Exponential Functions	6.1, 6.2, 6.3
Week 12	Nov 12	Logarithmic Functions	6.4, 6.5, 6.6, 6.7
Week 13	Nov 19	Linear Systems	8.1
Week 14	Nov 26	Sequences and Series	9.1, 9.2, 9.3
Week 15	Dec 3	Review	

Grade Interpretation

A: Indicates nearly complete mastery of the conceptual and computational aspects of the course.

1. know all definitions;
2. understand all major theorems;
3. perform all related calculations with only minor and infrequent errors;
4. combine ideas from differing sections in new ways to solve problems.

B: Indicates good understanding of conceptual material and excellence at computation.

1. know most definitions;
2. know most major theorems;
3. perform all related calculations without significant errors;
4. combine ideas within sections in new ways to solve problems.

C: Indicates adequate knowledge of conceptual material and adequate computational skills.

1. know most of definitions;
2. know some major theorems;
3. perform a majority of the computational techniques correctly.

D: Indicates some knowledge of the theory and techniques resulting from adequate effort to learn.

1. complete a majority of assignments;
2. perform some computational techniques correctly.

F: Indicates inability to demonstrate knowledge of course material, and/or inadequate effort.

Assignment Assessment

Homework will be graded check+, check, check-, or zero. Check+ will be given to assignments which are exceptional in quality, completeness, and neatness. Check- indicates too little effort. Zero indicates an assignment which are unreadable or shows no work.

If you have a question about any homework problem, please write the question on the top of the paper you turn in, surrounded by a circle or some stars so that it won't be missed.

Each quiz or worksheet will be graded on a scale of 0 to 10. Quizzes normally contain two problems.

Each exam will be graded on a scale of 0 to 100.

Academic Integrity

The University's policy on academic integrity, as stated in the Course Catalog (pages 34 and 35) will be strictly enforced in this course. Any evidence of academic dishonesty will not be tolerated.

You are welcome to work with each other on homework assignments if you follow these rules: 1) anyone you discuss a problem with should be mentioned in your solution, and the originator of any idea should be so credited; 2) you must understand your solution, and write it in your *own words* (NO COPYING). Any violation of rules 1) and 2) is plagiarism, a form of academic dishonesty.

Observing and/or copying from another student's paper during quizzes and examinations is cheating, a form of academic dishonesty.

All answers on homework, quizzes, worksheets, examinations, et cetera, must be justified in words and/or computations.