College Algebra
(MATH 1023)
Fall 2005

Professor: Paul Bailey

Office: WIL 228

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

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Book: *College Algebra*, 6th edition, by Larson and Hostetler

Grade Components

Homework:	10%
Quizzes:	40%
Midterms:	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. Stable together pages from the same homework assignment. Turn in your homework at the beginning of the next class.

There will be a quiz almost every Friday. No makeup quizzes will be given. Instead, optional extra credit worksheets will be posted on the web site. These worksheets will replace lower or vacant quiz grades. The top ten quiz/worksheet scores will be counted towards your quiz score.

There will be two midterm examinations containing open response problems based on the lectures. The final exam will be produced by the mathematics department; it is cumulative, and normally contains fifty problems with short answers. The final examination has been scheduled by the university for Thursday, December 15, 2005. Visit the web site to obtain practice exams.

Calculators can be detrimental to the study of mathematics. The use of calculators, cell phones, laptop computers, and all electronic devices is strictly prohibited during quizzes and examinations, and is discouraged while studying.

Course Outline

Week	Beginning	Topic	Sections
Week 1	Aug 29	Real Line and Cartesian Plane	P.1, P.7, 1.1
Week 2	Sep 5	Linear Equations	1.2, 1.3, 2.1
Week 3	Sep 12	Quadratic Equations	1.4, 1.5
Week 4	Sep 19	Functions	2.2, 2.3, 2.4
Week 5	Sep 26	Functions	2.5, 2.6, 2.7
Week 6	Oct 3	Quadratic Functions	3.1
Week 7	Oct 10	Polynomial Functions	3.2, 3.3
Week 8	Oct 17	Polynomial Functions	3.4
Week 9	Oct 24	Rational Functions	4.1, 4.2
Week 10	Oct 31	Conic Sections	4.3, 4.4
Week 11	Nov 7	Exponential Functions	5.1
Week 12	Nov 14	Logarithmic Functions	5.2 - 5.5
Week 13	Nov 21	Linear Systems	6.1, 6.2, 6.3
Week 14	Nov 28	Sequences and Series	8.1, 8.2, 8.3
Week 15	Dec 5	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 signficant 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

Each homework assignment will receive 0, 1, or 2 points. Two points will be given to assignments which are neat and contain solutions to one or two of the more difficult exercises. It is not necessary to turn in all of the problems which are assigned. One point will be given to assignments which show an effort to perform computations. Zero points will be given to assignments which are unreadable or show 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, problem sets, examinations, et cetera, must be justified in words and/or computations. Answers with insufficient or incorrect justification may result in zero credit, or in question marks surrounding the assignment's grade. Assignments with question marks receive zero credit until the student visits the professor to demonstrate the ability to reproduce the result in question.