

FD'01

MA10201 INTRODUCTORY ALGEBRA (3)

Fall 2001

TTh 9:30 – 10:50 Henry Hall 225

Instructor: Dr. David Lani

Office hours: TTh 12:30 – 1:00, by appointment; other times may be possible; location to be determined.

Telephone (home): 538-3669

Course Description: Study includes real numbers and their properties; linear equations and inequalities; systems of equations and inequalities; polynomials and factoring; rational expressions; square roots and cube roots; graphs and equations of lines; and applications. This course prepares students for MA103 College Algebra.

Textbook: Beginning Algebra 5th edition, by Gustafson and Frisk, Brooks/Cole Publishing Company.

Supplies

11" x 8.5" lined paper

graph paper (4 – 5 blocks per inch)

#2 (or darker) pencils—no pens

scientific calculator with fraction capability

Topics Covered

1. Concepts and properties of the real number system; exponents; order of operations.
2. Linear equations and inequalities; applications; formulas.
3. Systems of linear equations and inequalities: solving by graphing, substitution, addition; applications.
4. Integral exponents; polynomials: the four basic operations, including the long division algorithm.
5. Factoring polynomials: GCF, grouping, special formulas, trinomials; solving equations by factoring.
6. Ratio and proportion; rational expressions: the four basic operations; equations with fractions.
7. Roots and radical expressions: square roots and cube roots; arithmetic of radical expressions.
8. Slope of a line; writing equations of lines.
9. Solving quadratic equations by the quadratic formula.

Course Requirements

Attendance and Participation: A score is recorded for each class, based on actual time in class and active participation: 100 = no more than 10 minutes missed; 80 = no more than 20 minutes missed; 60 = no more than 30 minutes missed; 0 = more than 30 minutes missed. The two lowest scores are discarded.

Homework: Assignments are to be done on a "practice-on-your-own" basis; they will not be collected. However, quizzes will contain problems from the assignments—and possibly from other sources.

Quizzes: About 30 minutes in length, quizzes are closed-book, with no notes. At times, a calculator is allowed—but there is to be no borrowing. The lowest score of all the quizzes is discarded; consequently, there is no make-up for any quiz that is missed. Dates are shown on the course calendar.

Tests: Besides the final exam, there are three tests, all of which are closed-book, with no notes. At times, a calculator is allowed—but there is no borrowing. Dates are shown on the calendar. For tests that are missed, entirely different forms—usually more difficult—may be administered.

Final Exam: The final exam is comprehensive—it covers the entire course. It is closed-book, with no notes. A calculator is allowed on only the first of two parts.

Evaluation:

Grading

Scale

Attendance/Participation	15% of final grade	90 – 100%	A
Quizzes	25% of final grade	80 – 89%	B
Tests	30% of final grade	70 – 79%	C
Final Exam	30% of final grade	60 – 69%	D
		below 60%	F

>>> FINAL EXAM: Monday, Dec 10, 2001 8:00 – 10:00 am