MA10303 COLLEGE ALGEBRA (3)

FD'OI

Fall 2001

TTh 11:00-12:20 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: Work focuses on algebraic expressions (polynomials, rational expressions, radical expressions); equations and inequalities; systems of equations and inequalities; basic concepts of functions; exponential and logarithmic functions; and applications. This course prepares students for MA110 Precalculus.

Textbook: Algebra for College Students 5th edition, by Gustafson and Frisk.

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; equations; applications.
- 2. Graphs and equations of lines; introduction to functions.
- 3. Systems of linear equations: solving by graphing, elimination, and matrices.
- 4. Linear inequalities in one and two variables; absolute values; systems of inequalities.
- 5. Arithmetic of polynomials; complete factorization; solving equations by factoring; applications.
- 6. Rational expressions; ratio and proportion; the four basic operations; rational equations.
- 7. Radical expressions and equations; applications; rational exponents.
- 8. Solving guadratic equations by factoring and formula; applications; graphs of guadratic functions.
- 9. Introduction to exponential and logarithmic functions; properties of logarithms.
- 10. Graphing conic sections: solving systems of second-degree equations.

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, guizzes 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 guizzes is discarded; consequently, there is no make-up for any guiz 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 :	Grad	Scale		
Attendand	Quizzes Tests	15% of final grade 25% of final grade 30% of final grade 30% of final grade	90 – 100% 80 – 89% 70 – 79% 60 – 69% below 60%	A B C D F

>>> FINAL EXAM: Wednesday, Dec 12, 2001 8:00 - 10:00 am