# MATHEMATICS 103
## COLLEGE ALGEBRA FOR BUSINESS MAJORS
### Spring 2000

**Text:** Gistafson & Frisk, Algebra for Colleg Students, 5th Edition, 1999

**Professor:** June Aono, Ph.D.

**Office Information:**

| | |
|---|---|
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| Hours: | T, Th 12:30 - 2:00, and other times by appointment |

**Last Day to Withdraw:** April 10, 2000

**Objective:** The objective of the course is to prepare the student for the basic business courses. Two major areas will be covered: algebra for core business classes and an introduction to statistics. The course will focus on skills students will need for the business classes in Accounting, Economics, Management, Finance, and Marketing. Topics covered for algebra include: real number systems, exponents and polynomials, rational and radical expressions; equations and inequalities with applications (including linear equations); and other selected topics. The topics covered in statistics include: descriptive statistics, probability, and the normal distribution.

**Format:** This course will utilize lectures, homework, and examinations. Assigned chapters should be read before class, and assignments should be prepared to be turned in on due dates. Late assignments will not be accepted.

**Examinations:** Exams will include multiple choice questions and problems.

**Attendance:** Attendance will contribute toward the final grade of the course only if the student is on the borderline between two grades. The student is responsible for all announcements and material covered during his/her absence.

**Grades:**

| | | |
|---|---|---|
| Homework | 50 | (random collection) |
| Three Midterms | 150 | (50 pts. each) |
| Final Exam | 100 | |
| Total | 300 | |

Bonus points: up to 5 points for participation

**Grade guideline:**

| | | |
|---|---|---|
| Above 90% | A | (Refinements will be made |
| 80 - 89% | B | as necessary) |
| 70 - 79% | C | |
| 60 - 69% | D | |
| Below 60% | F | |

## Tentative Lecture and Assignment Schedule

| Date | | Chap. | Topic | Assignment |
|------|----|-------|-------|------------|
| Jan | 19 | | Introduction | |
| | 21 | 1.1 | Real Number System | 1-11 odd;  13-24 all;  25-80 odd |
| | 24 | 1.2 | Arithmetic properties-real numbr | 7-20 all;  21-68 odd;   69-74 all;  114 |
| | 26 | 1.3 | Exponents | 5-14 all;  27-57 odd;  107-113 odd;  135-146 all |
| | 28 | 1.4 | Scientific Notation | 7-11 all;  31-37odd;  43-45 odd |
| | 31 | 1.5 | Solving Equations | 9-18 all;  23-37 odd;  50-75  M5 |
| Feb | 2 | 1.5 | | 85-100 M5;  105, 107, 110 |
| | 4 | 1.6 | Equations to Solve Problems | 5-16 all;  23, 25, 28, 33, 59 |
| | 7 | 1.7 | More Applicatioins | 9, 10, 11,12 |
| | 9 | | Review | |
| | 11 | | **EXAM I** | |
| | 14 | 2.1 | Rectangular Coordinate System | 7-12 all; 19-25 all; 37, 38, 47, 48, 54 |
| | 16 | 2.2 | Linear Equations | 7-14 all; 15-29 odd;  335, 37, 41, 52, 57, 58, 61 |
| | 18 | 2.3 | Slope of a line | 7-16 all; 17-35 odd |
| | 21 | | HOLIDAY | |
| | 23 | 2.3 | | 37-42 all; 55, 59, 73, 74 |
| | 25 | 2.4 | Writing equation of a line | 7-12 all;  13-35 odd |
| | 28 | 2.4 | | 39-43 odd; 80, 82, 85, 86 |
| Mar | 1 | 2.5 | Functions | 5-16 all;  17-23 odd, 25, 29, 61, 63 |
| | 3 | 2.5 | | 65-68 all;  73, 75, 79, 81 |
| | 6 | 2.6 | Graphs | 7-20 all |
| | 8 | | Catch up & Review | |
| | 10 | | **EXAM II** | |
| | 13 | 3.1 | Solution by Graphing | 11-17 odd |
| | 15 | 3.2 | Solution by Elimination | 5-10 all; 11-17 odd;  23-27 odd; 51, 67 |
| | 17 | 4.1 | Linear Inequalities | 5-16 all; 17-23 odd;  31, 33, 56, 57, 60, 61 |
| | 20 | 4.3 | Linear Equations in Two Variabl | 5-8 all; 9-27 odd;  39, 43 |
| | 22 | 5.1 | Polynomials | 7-12 all;  13-16 all |
| | 24 | 5.2 | Adding & Subtracting Polynom. | 5-8 all;  17-27 odd;  37-45 odd |
| | | | SPRING BREAK | |
| Apr | 3 | 5.3 | Mulitiplyng Polynomials | 7-14 all; 15-21 odd;  39-47 odd |
| | 5 | | | 69, 71, 73, 79, 83, 87, 93, 95 |
| | 7 | * | Project | |
| | 10 | | **EXAM III** | |
| | 12 | 10.1. 10.2 | Pg 708-709, pg 714-715 | **10.1** (41,44) **10.3** (23, 34) |
| | | 10.3, 10.4 | Pg 722-729; pg 723 | **10.3** (17-27) |
| | 14 | * | Project | |
| | 17 | 13.1, 13.2 | Binom. Distribution; pg 889-892 | **13.1** 7-14 all; 15-29 odd; **13.2** 9-12 all; 41-47 odd |
| | 19 | 13.6 | Permutations & Combinations | 9-20 all;  21-29 odd |
| | 21 | | Holiday – Good Friday | |
| | 24 | 13.7 | Probability | 5-8 all; 9, 10, 13-19 odd; 25-29 odd; 55,51 |
| | 26 | 14 | Normal Distributions- Handout | To be assigned |
| | 28 | * | Project | |
| May | 1 | 14 | | To be assigned |
| | 3 | 14 | | To be assigned |
| | 5 | | Review | |
| May | 8 | | **FINAL EXAM** | 12:45 - 2:45 |