

# Gibbs -- GE351 College Mathematics: Algebra -- Winter 2006

Joe Chizmarik, Adjunct Professor of Mathematics

-----  
Professor's Email – [jchizmarik@gibbsnj.edu](mailto:jchizmarik@gibbsnj.edu)

<u>WEEK</u>	<u>TOPIC</u>	<u>CHAPTERS</u>
1	Introduction to Algebra	1
2	Equations, Inequalities, Problem Solving	2
3	Graphs, Linear Equations, Functions	3
4	Exponents & Polynomials	4
5	Factoring & Quadratic Equations	5
6	Midterm Review & Exam	Chapters 1- 5
7	Rational Expressions & Equations	6
8	Systems of Equations & Inequalities (time permitting)	7
9	Roots and Radicals	8
10	Quadratic Equations	9
11	Final Review & Exam	All Chapters

**Introductory Algebra**, Third ( 3<sup>rd</sup> ) Edition, Alan S. Tussy and R. David Gustafson, [Brooks/Cole](#), ISBN: 0-534-38571-0, 2006.

**Objectives:** This course is designed to enable students to read, write, speak, and think mathematically using the language of Algebra. Upon completion of this course students should be able to:

- Understand Algebraic expressions & use associated operations
- Solve equations, inequalities, and word problems
- Examine & graph linear equations and solve systems of linear equations
- Factor polynomials of the second order
- Solve problems involving roots of second degree polynomials.

**Grading:** Class attendance is Mandatory. Professional behavior is expected. Class participation counts for 10% of the overall course grade. There will be homework each class due the next class. The homework from the first meeting (2%) of each week will be based on a chapter example. The homework from the second meeting of each week may be a chapter problem (3%). Homework late by more than one class may be reduced one grade level; later submissions may not be accepted. Homework counts for 45% of the overall course grade. There will be a midterm exam (15%) and a comprehensive final exam the last week of the course; it will count for the remaining 30% of the overall course grade. Grades of A=100 to 93, A-=92 to 90, B+=89 to 86, B=85 to 83, B-=82 to 80, C+=79 to 76, C=75 to 73, C-=72 to 70, D+=69 to 66, D=65 to 60, and F=59 to 0 will be awarded.