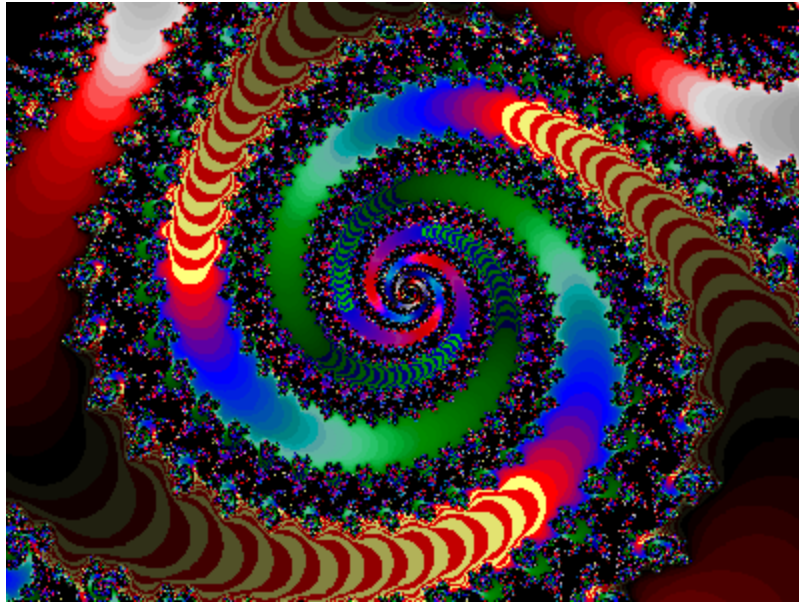# Math 100A

Algebra Module

As long as algebra is taught in school, there will be prayer in school.
Cokie Roberts

Arithmetic! Algebra! Geometry! Grandiose trinity! Luminous triangle! Whoever has not known you is without sense!
Comte de Lautreamont

"The most powerful single idea in mathematics is the notion of a variable." - K. Dewdney

Math Module 100A – Algebra and Functions
Spring, 2011

Senior Lecturer: Mrs. Susan Riner
Office: 120B Pierce hall
Phone: 784-8316

Text: <u>College Algebra and Trigonometry</u> by Levitan, Kolman, Shapiro, 5th edition

Purpose: This five week module is designed to help students review skills necessary for successful completion of calculus, Math 110A. Math 100A will provide each student with an opportunity to increase his or her proficiency in and understanding of the basic concepts of algebra, functions, and graphing.

Attendance: Students are expected to be on time and attend all classes and are responsible for all material covered in class as well as any changes made in the attached schedule regarding topics, homework, quizzes, and test dates. Attendance and consistent preparation for class will determine the success or failure the student realizes in this course. Missing classes, tests, assignments, etc. due to observance of religious holidays should be worked out in advance with the professor.

Homework: Some homework problems will be collected and graded but all homework problems are assigned to benefit you. You will need to study 2-3 hours outside of class for every hour spent in class.

Tutoring: Student tutors are scheduled for a limited amount of time per week in the afternoon and evening in the Mathematics Center in Pierce Hall. You may want to consult tutors if you are having trouble with homework problems. Tutoring schedules are posted on the Oxford web page, on Blackboard, in the classrooms, and in the Mathematics Center.

Honor Code: **The Honor Code of Oxford College applies to all work submitted for credit. You will pledge with your signature that the work you submit for credit is yours and yours alone.**

Assessment Procedures: There will be two major tests, homework assignments, and quizzes.

Points will be distributed as follows:

2 Tests (100 points each)	200 points
Homework Assignments	100 points
<u>Quizzes</u>	<u>100 points</u>
Total	400 points

Grades will be assigned as follows:

A: 360-400 points
B: 320-369 points
C: 280-319 points
D: 240-279 points
F: Below 240 points

100A -Topics

2/1, 2/3   Sections 1.2, 1.3, 1.4: Algebraic Expressions, Factoring

2/8, 2/10   Sections 1.5, 1.6, 1.7: Rational Expressions, Integer and Rational
                Exponents

2/15, 2/17   Sections 2.1, 2.3, 2.5: Solving Linear and Quadratic Equations

2/22, 2/24:   Sections 3.1, 3.2, 3.3, 4.1: Graphing Linear and Quadratic Functions

3/1, 3/3:   Sections 3.4, 3.5: Algebra of Functions, Inverse Functions, Review