

**MATHEMATICS 201-007 : Algebra**

**WINTER SEMESTER 2009**

Instructor: Dr. Ming Mei  
Office: E -214  
Telephone: (450) 672 – 7360 ext. 278  
Email: [mmei@champlaincollege.qc.ca](mailto:mmei@champlaincollege.qc.ca)  
or [mei@math.mcgill.ca](mailto:mei@math.mcgill.ca)  
Website: <http://www.math.mcgill.ca/~mei>  
Office Hours: TBA

**Textbook:** *Intermediate Algebra*, 9<sup>th</sup> edition, by M.L. Bittinger, published by Addison Wesley.

**General objective:** To prepare the student for subsequent courses in Mathematics by introducing the important concepts of **algebra** and by ensuring competency in proper algebraic manipulations.

**Outline:** The course will cover the following material:

Review of Basic Algebra:  
Linear Equations and Inequalities:  
Graphs, Functions and Applications:  
System of Equations:  
Polynomials and Polynomial Functions:  
Rational Expressions, Equations and Functions:  
Rational Expressions, Equations and Functions:

Chapter R, sections 4-7  
Chapter 1, sections 1-6  
Chapter 2, sections 1-6  
Chapter 3, sections 1-6  
Chapter 4, sections 1-6  
Chapter 5, sections 1-7  
Chapter 6, sections 1-7

**Teaching methods:** Class time will be devoted to lectures and problem solving. During problem solving sessions, students are encouraged to work in groups. Problems taken from the book will be suggested after each session. They indicate the level of difficulty of the problems that the students are expected to solve. The book will be followed closely and it is absolutely essential that each student has a copy and brings it to every problem solving session. Additional exercises will be provided by the instructor.

**Evaluation:** Attendance is necessary for each class, and will be worth of 10% of the final grade. There will be also weekly quiz, and four term tests. The exact dates of the tests will be announced at least one week prior to the tests. No possibility of making up test or quiz exists unless a written medical notice is presented immediately after student's recovery.

**Assessment plan:** Attendance 10%, Quizzes 10%, and Tests 80% (each term test is worth 20%).

