

**Rivier College**  
**MA112 – College Algebra**  
**Instructor: Ann-Lee Thibeault**  
**E-mail: annlee@thibeault.us**

**Course Description:** Primary emphasis is development of skills in algebraic manipulation. Topics include a study of first and second degree equations and inequalities, functions and relations, and an introduction to coordinate geometry.

**Prerequisite:** High school algebra

**Required Text:** Kaufmann, Jerome E. (1996). Algebra for College Students. (7<sup>th</sup> edition). Boston , MA: PWS Publishing Company

**Course Objectives:**

- To review number systems and the properties of real numbers.
- To acquire skill in solving first and second degree equations.
- To acquire skill in using and solving inequalities.
- To acquire skill in operations with polynomials and algebraic fractions.
- To review work in factoring and to learn new factoring techniques.
- To learn about exponentials and radicals.
- To learn the concept and properties of functions.
- To study systems of equations and systems of inequalities.
- To acquire skill in use of determinants.
- To study exponential and logarithmic functions.
- To learn how to apply the appropriate mathematical knowledge and skills to the solving of applications.

**Teaching Strategy:** Part of each class meeting will be lecture, but all students are encouraged to interact with the instructor by asking questions and contributing ideas. Examples will be given to illustrate concepts and procedures presented. Homework assignments from the previous class meetings will be discussed at the beginning of each session.

**Course Requirements:**

- 1) Homework: homework will be checked at the beginning of each class. All work must be shown to receive credit.
- 2) Final examination during the last class of the term.
- 3) Students are expected to attend all classes and to be on time for classes.
- 4) Tests will be given after two chapters have been covered.

<b>Grading Criteria:</b>	Attendance/Participation	20%
	Weekly Homework	20%
	Tests	40%
	Final Examination	20%

## **Tentative Schedule for MA112**

1/23 Chapter 2  
1/30 Chapter 3  
2/6 Chapter 3  
2/13 Test 1  
2/20 Chapter 4  
2/27 Chapter 4  
3/6 No class  
3/13 Chapter 5  
3/20 Test 2  
3/27 Chapter 5  
4/3 Chapter 6  
4/10 No Class  
4/17 Chapter 6  
4/24 Review  
5/1or6 Final Examination