Math 1106 – Elementary Applied Calculus
Bittinger and Ellenbogen's *Calculus and Its Applications, 9th Edition*
Lecture Notes for Chapter R, "Functions, Graphs, and Limits"

This chapter is a review of material you've seen in previous algebra courses. Where this knowledge is used in conjunction with your study of calculus, I expect you to be able to work with these concepts from algebra. A very good way to start the semester is to go through the material in the first 5 sections of Chapter 1 and thoroughly review your comprehension of everything there. The Appendix that begins on page 599 is a compendium of absolutely essential algebra details with which you must be familiar; at its end there is a very helpful exercise set that you would be well-advised to work through.

You are encouraged to begin using MyMathLab with this chapter, to learn how it works. Even for Chapter R, there is required homework in MyMathLab, and this can be of great benefit to you both in sharpening your algebra skills and learning the paradigm of MyMathLab for homework. Don't fool yourself! Algebra is an absolutely necessary prerequisite for the study of calculus.

Some thoughts about having a regular routine of study, so that you can be successful in this course:

The authors have used every tool of modern publishing to draw your attention to the important concepts: italics, colored ink, pictures, arrows, etc. But if you don't regularly crack your book to study after every lecture, they're not going to do you any good! And, when you register and activate your subscription to MyMathLab at www.coursecompass.com, you'll find that this online supplement to the textbook provides extra opportunities that further explain important concepts and test your comprehension of them.

The authors of the textbook have produced an excellent suite of exercises to thoroughly test your understanding of the material in each section of the book. The answers for the odd-numbered activities appear in the back of your textbook. MyMathLab is full of resources to assist you in gaining the knowledge required by this course for the subject of applied calculus. Questions about homework activities (online or in the book) are legitimate questions to ask in class. Always come to class with a list of question (written down!) that you have developed during your homework activities between classes.

These online post-lecture pages will be embellished with notes as the semester progresses, so be sure to come back to them often, especially as the date of a test or the final exam approaches.