**Math 117 Fall 2012**  
Section A,  
MWF 10:00-10:50 Cooper-Wilson 320

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**OFFICE HOURS:** 2pm-5pm MTWR.

**TEXT:** *Precalculus, An Investigation of Functions*, first edition, David Lippman, Melanie Rasmussen, Creative Commons license 3.0. This course will be presented with and by the MyOpenMath software.

**COURSE CONTENT:** The goal of the course is to teach the student the basic concepts of college algebra and trigonometry. Topics include elements of algebra, quadratic equations, word problems, functions, graphs, exponential and logarithmic functions, right triangle trigonometry and trigonometric functions. The course stresses problem solving by the student with a specific type of graphing calculator. Prerequisite: Math 101 or equivalent.

**CALCULATOR:** You must have access to the TI-89 graphing calculator on assignments and for part of each test. Tests may be in two parts, one with calculator and one without.

**HOMEWORK:** We will be using the MyOpenMath software for this course. Each section in the book has an entry in the software, with associated homework problems. These problems are presented, and graded, by the software. (100 pts)

**QUIZZES:** There will be quizzes every week. These quizzes will be very short (approx. 10-15 min.), if they are in class, or they will be longer online quizzes. Each quiz will be worth 10 points and I will count 10 of them. Since I plan to give many of these quizzes (at least 13, hopefully 14) I will drop the extra ones. This does mean that quizzes cannot be made up. Quizzes will count for 200 points of your final grade.

**TESTS:** There will be three in-class exams, each exam worth 100 points, and a comprehensive final exam worth 150 points. **I will not curve your test grades.** If you miss a test for any reason, you need to notify me no later than the day after the test to set up a time for a make-up.

**ATTENDANCE:** Attendance is the responsibility of the student. I will not take roll. However, quizzes cannot be made up, and exams will be made up only in the case of an excellent excuse.

**SCHEDULE:** We will spend the first several days on functions, their definition, notation and behavior. After a few weeks on general behaviour of functions, we will discuss a specific type
of function, the linear function. At the end of the fourth week we will have our first exam. Next we will spend a few weeks on power functions and polynomials followed by a few weeks on exponential and logarithmic equations. The second exam will be the Friday before fall break (Oct 12). The last seven or eight weeks will be spent on trigonometry.

**Math Center:** There are students available to help you understand the material in this course. The Math Center hours of operations will be announced late in the first week of class or early in the second week.

**GRADING:** 100-90%=A, 90-80%=B, 80-70%=C, 70-60%=D, 60% and below is an F.

**SCHOLASTIC DISHONESTY WILL NOT BE TOLERATED!** You are responsible for doing your own work. Any violation of this principle will result in a zero grade on the work in question.