Math bootcamp
Summer 2014

Instructor: Yuexiao Dong
Office: 348 Speakman Hall
Telephone: (215) 204-0670
E-mail: ydong@temple.edu

Class: TBD, Alter Hall; 9:30 am-1:00 pm.
Duration: Aug 11 to Aug 15; Aug 18 to Aug 20; Aug 22.
Note: no class on Aug 21.

Office hours: 1:15 pm-2:15 pm, or by appointment.

Course material:
Available online at http://astro.temple.edu/~ydong/teaching.html

Course description:
The objective of this bootcamp is to go over some basic topics in calculus and matrix algebra. These tools may be very useful for your quantitative graduate level courses. Here is a tentative schedule:

August 11 to August 12, we will cover exponents, logarithms, graph of functions, derivatives and integrals.

August 13 to August 14, we will cover series and convergence tests.

August 15, we will talk about combination and permutation, and counting problems.

August 18 to August 19, we will cover matrix multiplication and eigenvalue decomposition.

August 20 and August 22, we will cover applications of math in statistical problems.

Evaluation: We will have a takehome final exam after the August 20 class. You may drop the exam at my office (348 Speakman Hall) any time before 3:00 pm, Aug 22.