Math 234: Course Syllabus – Spring 2014

Course logistics

Time and Location:	Tuesday & Thursday 3:30pm – 4:45pm, 251 Mercer St., CIWW 512
Instructor:	Michael O'Neil
Email:	oneil@cims.nyu.edu
Phone:	212-992-5874
Office:	Room 1105A, Warren Weaver Hall
Office hours:	Tuesday 10:00am - 11:00am & Wednesday 4:00pm - 5:00pm
Course website:	www.cims.nyu.edu/~oneil/courses/math234.html

Recitation time:	Friday 2:00pm – 3:15pm, CIWW 512
Teaching assistant:	Sinziana Datcu
Email:	datcu@cims.nyu.edu

Course information

Description: This course is intended as a thorough mathematical introduction to the theory of statistics, intended to be taken after sufficiency in probability is obtained at the level of Math 233: Theory of Probability. Topics covered in this class will include: sampling theory, hypothesis testing, point (parameter) estimation, regression and linear least squares, tests of significance, likelihood methods, and Bayesian statistics. Topics in computational statistics will be covered using Python and Pandas.

Text: Mandatory, homework problems will be assigned from it:
    Wasserman, *All of Statistics*
Suggested references:
    Rice, *Mathematical Statistics and Data Analysis*
    Schaum's Outline of Statistics

Grading: The grade for the course will be determined based on weekly homework assignments, a midterm, and a final. The following rubric will be used:

Homework	30%
Midterm	30%
Final	40%

The lowest homework grade will be dropped. Homework is due at the beginning of **RECITATION** on the due date (or in the teaching assistant's mailbox in the lobby of WWH); in the interest of fairness, absolutely no late assignments will be accepted. Homework will be returned the following week in recitation. Exams will not be rescheduled. The midterm is scheduled to be in-class on Thursday, March 13th. The final is scheduled by NYU, and is (tentatively) slated for May 15th, 4:00pm - 5:50pm, room TBA.