Professor: Robert Strain (strain at math.upenn.edu)

Course Web Page: http://www.math.upenn.edu/~strain/12ma530/

Class schedule: TH @ 10:30AM-Noon in DRL 4C6, attendance is expected.

First class, last class: January 12, April 24.

Brief course description: This course presents the basic mathematical tools to model financial markets and to make calculations about financial products, especially financial derivatives. Mathematical topics covered: stochastic processes, partial differential equations and their relationship. No background in finance is assumed.

Pre-regs: Math 240, Stat 430.

Homework: Weekly, posted on the course blackboard website. Collaboration between students is encouraged, but you must write your own solutions, understand them and give credit to your collaborators. (In other words, put a list of the students with whom you collaborated on your homework.)

Late homework will not be accepted.

The two lowest homework scores will be dropped.

Grader: Jonathan Kariv (jkariv at math.upenn.edu)

Exams: There will be two in class exams. Exam attendance is manditory. The first exam is on March 1.

The second exam is on April 24 (which is the last day of classes).

Evaluation: Your final grade is based on your level of participation in class (10%), the homework (30%), as well as the in class exams (30%) and 30%.

Textbook: Jonathan Block. "Stochastic Processes and the Mathematics of Finance", 2008. (Available on course website.)

Wilmott, Howison, Dewynne. "The Mathematics of Finanical Derivatives; A student introduction." This text will also be on reserve at the Math/Physics/Astronomy Library in DRL.