Syllabus: IEMS 460-2 Stochastic Models II Spring 2012

Time: Mondays, Wednesdays, and Fridays, 10:00-10:50.

Final Exam: Take home

Place: Tech LG72 Website: Blackboard

Professor: Benjamin Armbruster (armbruster@northwestern.edu)

Office: Tech M237

Office Hours: Wednesdays 4-5pm

Objective: learn tools for modeling and rigorously analyzing stochastic systems in applications, as required for research in IEMS.

Main textbook:

Modeling and Analysis of Stochastic Systems, 2nd ed., by Vidyadhar G. Kulkarni.

On reserve at the Mudd science and engineering library:

Stochastic Processes by Sheldon Ross.

Adventures in Stochastic Processes by Sid Resnick.

Applied Probability and Queues (2nd ed.) by Søren Asmussen.

http://www.springerlink.com/content/978-0-387-21525-9

Available online:

Basics of Applied Stochastic Processes by Richard Serfozo http://springerlink.com/content/978-3-540-89331-8

The final grade will be computed on the basis of:

Homework	40%
1 Midterm Exam	20%
Final	20%
Project	20%

-) Exams are cumulative and take-home.
-) Homeworks will generally be due Fridays.
-) The "standard" IEMS policy on academic integrity applies.
-) Please double space (or 1.5 space) your work. This is mainly relevant for people who typeset their solutions. This allows me space to make corrections and write comments.