Fall 2014
COURSE ANNOUNCEMENT (tentative)

001 Lec. Math 5652: Introduction to Stochastic Processes
TTh 10:10 am – 12:05 pm, VinH 211

Instructor: Mikhail Safonov, VinH 231
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Office Hours: Tu,Th 1:00 pm – 2:00 pm, or by appointment

Textbook: *R. Durrett*, Essentials of Stochastic Processes, 2nd editon, Springer, 2012.

Tentative Course Outline

Review of prerequisites: approximately 2 weeks
Markov chains (Chapter 1): 4 weeks
Poisson processes (Chapter 2): 2 weeks
Renewal processes (Chapter 3): 2 weeks
Continuous time Markov processes (Chapter 4): 3 weeks
Other topics including Martingales and Brownian motion

Midterm exams: Thursday, October 2 (5th week)
Thursday, November 13 (11th week)

Final exam: Wednesday, December 17, 1:30 pm – 3:30 pm

Homeworks: There will be 5 homeworks assigned in class, which will be due:
on Tuesdays, September 16 and 30, October 21,
November 11, and December 2.
In general, late homeworks will not be accepted.

Grading: Homeworks – 20% of total grade for 4 best (out of 5) ones.
Each of 2 Midterms – 20%, Final exam – 40%.

Missed exams: Make-up Final exams will be given to students who have a **valid** reason for missing an exam. Such students must notify their instructor prior to the exam, and the reason must be documented. There will be **no make-up Midterm exams**. A proportional part of the score for the Final exam will be used instead for students who have a valid documented reason for missing a Midterm exam.

Incompletes: The grade of **I** can be assigned only to students who have taken and passed one Midterm Exams and who have a valid excuse for being unable to take the Final Exam.