

Course Syllabus

IEE 470: Syllabus & Course Policies
Stochastic Operations Research – Fall 2013
Instructor: Dr. Soroush Saghafian

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Instructor

Dr. Soroush Saghafian, Soroush.Saghafian@asu.edu
Office Hours: Fridays, 3:00-5:00, BYENG 336, others strictly by appointment

TA

Kangwon Seo, kseo7@asu.edu
Office Hours: Mondays and Wednesdays, 3:00-5:00, BYENG 221

Lectures

Tuesdays and Thursdays, 3:00PM – 4:15PM, COOR 174

Exams

Midterm: October 24, 3:00PM – 4:15PM, EDC 117
Final: December 12, 2:30PM – 4:15PM, EDC 117

Required Text Book

Ross, S. M., Introduction to Probability Models, 10th Edition, Academic Press.

Supplemental Texts (Recommended, Not Required)

Pinsky, M. A., and Karlin, S., An Introduction to Stochastic Modeling, 4th Edition, AP, 2011.

Bertsekas, D. and Tsitsiklis, J., Introduction to Probability, 2nd Edition, Athena Scientific, 2008.

Tijms, H. C., A First Course in Stochastic Models, Wiley, 2003.

Solberg, J., Modeling Random Processes for Engineers and Managers, Wiley, 2008.

Prerequisites:

Basic knowledge in probability, statistics, operations research, and math (e.g., IEE 380, IEE 376).

Grading:

- Homework: 15%
- Midterm: 40%
- Final: 45%

Course Description

The main objective of the course is to provide you with mathematical modeling tools to quantify randomness, and make better decisions under uncertainty. Emphasis will be on the basic topics of probability modeling, stochastic processes, and their applications. The course requires a lot of abstract thinking, modeling, and analysis.

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not get an extension if you chose to pick it up late!) When you resubmit the assignment, it must be accompanied by a clear written explanation of the suspected grading mistake. Re-grading entails re-grading the entire assignment or exam; so you may, in fact, get a lower grade than your original grade. All the regarding request should be directly given to the TA during his office hours.

Email

All emails to the Instructor and/or TA must have either [IEE 470] or [IEE 598] in the subject line. Failure to place this in the subject line could cause your email not to be read. Email is the convenient way to get in touch with the instructors to get an answer to a short question. However, be aware that the professor and the TA have many other work obligations and probably keep different schedules from you. Therefore, although we do guarantee that we will answer all emails we receive, you should not expect us to answer each of them right away. The most reliable way to get your questions and concerns answered is to attend office hours: keep up with lectures and readings and get started on assignments early, to be prepared to pose questions in office hours.

Academic Integrity

Incidences of cheating will be reported to the Déan's Office with a recommendation that you receive an "E" in this class. ASU has very severe penalties for academic integrity violations. ASU's policy can be found online. You must observe this policy with respect to examinations, assignments, and all other aspects of this course. In particular:

Homework: Homework assignments need to be returned by teams of three. Each group returns only one set of answers. Please find two other members that have registered in the same level as you (undergraduate or graduate level). Although assignments are done in groups, each member of the group should completely understand and contribute to all the problems in the assignment: do not divide the problems between members. Any help from internet, friends outside your group, etc. is strictly prohibited. However, you are encouraged to (a) attend the TA's office hours to actively discuss the problems and your thoughts, and (b) discuss the problems with the members of your group. Any violation from the above-mentioned rules will result in a grade of zero, and will be considered as an academic violation.

Exams: Both exams will be closed book. You will be allowed to bring one page of your own notes and a calculator to perform simple arithmetic operations; details to follow.