MATH 312 - PROBABILITY & STATISTICS 2
WINTER 2014
TR 10 - 12 Rush 213

INSTRUCTOR: Anatolii Grinshpan
Korman 253
tolya@math.drexel.edu
(215) 571-3586


CONTENT: survey sampling, estimation of parameters and fitting of probability distributions, testing hypotheses and assessing goodness of fit, summarizing data, linear least squares.

PREREQUISITES: Probability and Statistics 1

OBJECTIVE: master the basic principles of modern statistics, theory and application.

TEXT: *Mathematical Statistics and Data Analysis*, John Rice (3rd edition)

HOMEWORK: Weekly homework will be posted online (for collection) and selectively discussed in class. These should be worked on independently. There will be occasional quizzes.

EXAMS: Two midterms (weeks 4 and 8) and a comprehensive final exam. The exam problems will be based on ideas and methods discussed in class and practiced at home. If you have to miss an exam, please notify me promptly. A makeup exam can only be given in special circumstances, documented in writing.

GRADE COMPONENTS: midterms 25% (each), quizzes and homework 20%, final 30%.

RESOURCES: *Probability and Statistics for Engineering and Sciences*, Devore
*Introduction to Probability and Statistics for Engineers and Scientists*, Ross
*Regression*, Bingham and Fry
*The Cartoon Guide to Statistics*, Gonick and Smith
Tutoring center: drexel.edu/math/resources/undergraduate/mrc

ACADEMIC POLICIES: [www.drexel.edu/oed/disabilityResources/students](http://www.drexel.edu/oed/disabilityResources/students)
[www.drexel.edu/provost/policies](http://www.drexel.edu/provost/policies)

Any changes to this syllabus will be announced in class and online.

\(^1\)subject to change