UNIVERSITY of
HOUSTON
DEPARTMENT OF MATHEMATICS

P-Exam Prepration

Jun 6 - July 7 ; 14 Sessions

Farnaz Ziaee
Dipanwita Saha

actuary@math.uh.edu
http://math.uh.edu/ actuary
Farnaz Ziaee: PGH 347
Dipanwita Saha: PGH 611
Office Hours: TBD
Class Schedule: TBD

This syllabus is subject to change based on the needs of the class.

Course Description: This course, is designed for students with little or no background in Probability. In this course you will learn how to solve questions in P-Exam in right amount of time.

Prerequisite(s): Knowledge of Calculus. Also the first 2 chapters of the textbook.

Text(s): *A Probability Course for the Actuaries*

Author(s): Marcel B. Finan

Course Policies:

- **General**

  - Students are strongly encouraged to have one of the approved calculators listed below:
    BA-35,
    BA II Plus,
    BA II Plus Professional,
    TI-30Xa or TI-30X II (IIS solar or IIB battery),
    TI-30X MultiView (XS Solar or XB Battery).

  - Quizzes and exams are closed book, closed notes.

- **Labs and Assignments**

  - At the last 30 minutes of each class we will have a quick quiz from the subjects taught in that session.

  - Every week we will have one online quiz on CASA website.

Tentative Course Outline:
The weekly coverage might change as it depends on the progress of the class. However, you must keep up with the reading assignments.

Week	Content
Session 1	• Probability, Definitions and Properties • Conditional Probability and Independence
Session 2	• Conditional Probability and Independence • Discrete Random Variables • Commonly Used Discrete Random Variables
Session 3	• Commonly Used Discrete Random Variables
Session 4	• Commonly Used Discrete Random Variables • Cumulative and Survival Distribution Functions
Session 5	• Continuous Random Variables
Session 6	• Continuous Random Variables
Session 7	• Continuous Random Variables
Session 8	• Joint Distributions
Session 9	• Joint Distributions
Session 10	• Joint Distributions
Session 11	• Properties of Expectation
Session 12	• Limit Theorems
Session 13	• Mock Exam
Session 14	• Mock Exam