

**Instructor:** Dr. Cen-Tsong Lin

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**Office Hours:** 10:00 – 11:00 Monday – Friday or by appointment.

**Course Goals:** First, to study and review the probability topics those are important in actuarial science. Second, to discuss and present efficient ways of solving problems that might appear on Exam P/1 of SOA/CAS.

**Prerequisite:** Math 411A.

**Required Test:** Samuel Broverman, *ACTEX Study Manual for SOA Exam P/CAS Exam 1*, 2009 Edition, ACTEX Publication

**Calculator:** A calculator suitable for Exam P/1 is required. (Only the following Texas Instrument calculator models may be used: **BA-35, BA II Plus, BA II Plus Professional Edition, TI-30Xa, TI-30XIIS, TI-30XIIB, TI-30XS MultiView, TI-30XB MultiView.**)

**Class Format:**

Assuming most of you are taking exam P/1 between May 12 and May 21. We will meet three times a week for seven weeks. For practice exam days we will talk about the practice exam due that day and previous week's quiz; for quiz days, you will be given an 8-question mini in-class practice exam. You are expected to put in substantial out-of-class time for this class.

**Evaluation:**

- At home practice exams 30%
- 8 in-class quizzes (Drop the lowest one) 50%
- Class participation and attendance 20%

**At home practice exam:** You should take the practice exams in the study manual under time conditions – choose a block of 3 hours and a location where you can work uninterrupted. Skip and mark the problems you can't solve at first attempt and revisit those problems after you have tried all of the 30 problems. After you finished (guess answers for those problems you can't solve), grade your solutions and redo the problems you missed or you can't solve at first. Make sure you know how to do the similar problems next time. We will go over the hard or tricky problem in class. You are encouraged to present your smart solutions to other students. You should keep your work in a binder or notebook. I will collect the work of Monday and Wednesday's practice exams at the end of Wednesday class.

**In-class quizzes:** There will be 8 multiple-choice questions in each quiz; those questions are from chosen from previous exam P.

Tentative Schedule:

	Monday	Wednesday	Friday
Week 1		4/1 Introduction and stocktaking	4/3 quiz 1
Week 2	4/6 Practice exam 1	4/8 Practice exam 2	4/10 quiz 2
Week 3	4/13 Practice exam 3	4/15 Practice exam 4	4/17 quiz 3
Week 4	4/20 Practice exam 5	4/22 Practice exam 6	4/24 quiz 4
Week 5	4/27 Practice exam 7	4/29 Practice exam 8	5/1 quiz 5
Week 6	5/4 quiz 6	5/6 quiz 7	5/8 quiz 8
Week 7	5/11 quiz 9		