

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. I will also assume that everyone is enrolled in Math 411B concurrently.

Required Text: 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-30XII, TI-30X MultiView**)

Chapters Covered: Section 1 – 10.

Tentative Schedule:

Week 1 January 6:	Introduction
Week 2 January 11 and 13:	Section 1 and 2
Week 3 January 20:	Section 3
Week 4 January 25 and 27:	Section 4; Quiz 1
Week 5 February 1 and 3:	Section 5; start section 6
Week 6 February 8 and 10:	Section 6 and 7
Week 7 February 17:	Quiz 2
Week 8 February 22 and 24:	Section 8 and 9
Week 9 March 1 and 3:	Quiz 3 , start section 10
Week 10 March 8 and 10:	Section 10

Homework: Homework should be kept in a separate notebook or a binder. At Wednesday class, you will hand in your homework to be checked and you may get it back the next day from my office. It is your benefit to keep your homework well organized, in detail and neat. No late homework will be accepted.

In-class quizzes: These are designed to give you some practice working under time constraint. There will be 8 multiple-choice questions in each quiz; those questions are cumulative over all material we have covered at that time. (Note: In a live exam you will have 3 hours to answer 30 multiple-choice questions, that is 6 minutes per question.)

Evaluation:

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| • Homework | 20% |
| • 3 quizzes, tentative schedule: Wednesday 1/27, Wednesday 2/17 and Monday 3/1 | 45% |
| • Final exam (20 multiple-choice problems), Wednesday 3/17, 8:00 AM – 10:00 AM | 20% |
| • Class participation and attendance | 15% |

Note: The information of Exam P/1 is available from the following website:

<http://www.beanactuary.com/exams/cbt.cfm>