

Instructor: Dr. Cen-Tsong Lin

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Office Hours: 11:00 – 11:50 Monday – Thursday; 9:00 – 10:00 Friday or by appointment.

Course Goals: Helping actuarial science students studying and pass exam P/1. We will reviewing the probability topics that are important in actuarial science and discussing (presenting) 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 Test: Peter J. Murdza, *Review Questions for Exam P/1*, 2011 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.**)

Chapters Covered: Section 1 – 10.

Tentative Schedule:

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| Week 1 | January 4 | Introduction |
| Week 2 | January 9 and 11 | Topic 1: Probability |
| Week 3 | January 18 | Topic 2: Discrete Distributions (A – D) |
| Week 4 | January 23 and 25 | Topic 2: Discrete Distributions (E – H); Quiz 1 |
| Week 5 | January 30 and February 1 | Topic 3: Continuous Distributions |
| Week 6 | February 6 and 8 | Topic 4: Multivariate Distributions |
| Week 7 | February 13 and 15 | Quiz 2 ; Other Topics I (A – C) |
| Week 8 | February 22 | Other Topics II (D – F) |
| Week 9 | February 27 and February 29 | Quiz 3 , Topic 6: Risk and Insurance |
| Week 10 | March 5 and 7 | Topic 6: Risk and Insurance |

Evaluation:

- Homework (40%)
- 3 quizzes (30%), tentative schedule: Wednesday 1/25, Monday 2/13 and Monday 2/27.
- Comprehensive final exam (20%), Tuesday 3/13, 8:00 – 10:00.
- Class participation and attendance (10%)

Homework: Homework should be kept in a binder. At Wednesday class, you will hand in your homework to be checked and you will get it back from my office or the next class meeting. It is your benefit to keep this as neat as possible. No late homework will be accepted.

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

Final Exam: 20 multiple-choice questions.

The detail information about [Exam P/1](#) is available from the website of [Be An Actuary](#).