

Math 416A Actuarial Problems II
Winter 2017 (Jan 4 - Mar 10)
MW 8 - 8:50am in BOUILLON 106

Instructor: Dr. Sooie-Hoe Loke

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Office Hours: MW 9 - 9:50 AM, TTh 10 - 10:50 AM, and by appointment.

Course Goals: This course is designed to prepare students for the actuarial exam P/1. At the end of the course students should be able to solve probability problems like the ones that appear on this exam.

Prerequisite: Math 411A; I will assume that 411B is being taken concurrently.

Required Text: ACTEX Study Manual for Exam P, 2012 Edition or newer.

Required Calculator: You will need one of these calculators. I recommend the TI Solar ones. Any other calculators are not allowed.

- BA-35,
- BA II Plus,
- BA II Plus Professional Edition,
- TI-30XS MultiView,
- TI-30Xa,
- TI-30XIIS,
- TI-30XIIB, or
- TI-30XB MultiView

Evaluation:

- Homework (35%); see below.
- Section Summaries (15%); see below.
- Quizzes (30%); see below.
- Final exam (20%); Thursday, Mar 16, 8 – 10 AM.

Course Conduct:

- **Homework:** Homework will be due each week on Wednesday. Assignments will be given the Wednesday before, but expect to be working about 25 problems/week (some weeks may be a bit more and some a bit less). Credit will not be given for late homework. We'll work through all of the topics in the ACTEX manual over the course of the quarter, hopefully with some time for review at the end.
- **Section Summaries:** On Wednesday of each week, you'll need to bring to class a "section summary" of the assigned review sections for the week. These section summaries should include any important definitions, results, and formulas from the section assigned for the week. Try to distill the information as much as possible while still including the important points. The goal with these is that you can use the summaries as "cheat sheets" for your exam studying.

- **Quizzes:** About five to seven quizzes will be given. They will be cumulative over everything we've covered so far this quarter in our review. They'll start out taking around 20-30 minutes and get progressively longer; by the end of the term they'll be like a scaled practice exam. There will be no make-up quizzes, but the lowest quiz score will be dropped. You'll be allowed to use your section summaries on the quizzes (within reason!) for the first couple weeks after we cover that section.
- **Exam P Information:** The Probability Exam is a 3-hour exam that consists of 30 multiple-choice questions and is administered as a computer-based test (CBT). The exam is offered 6 times a year, but ideally, you should be registering for the one in March, which will be administered from March 17-28 (Spring Break). For the March exam, the registration deadline is on **FEBRUARY 7. Please register as soon as possible**, so that that you can choose your preferred exam date. The test centers are located in Seattle, Tacoma, and Spokane. For more information about the exam, go to <https://www.soa.org/education/exam-req/edu-exam-p-detail.aspx>
- **Other Information:** Central Washington University is committed to creating a learning environment that meets the needs of its diverse student body. If you anticipate or experience any barriers to learning, discuss your concerns with the instructor. Students with disabilities should contact Disability Services to discuss a range of options to removing barriers, including accommodations. Student Disability Services is located in Hogue 126. Call (509) 963-2214 or email ds@cwu.edu for more information.

I reserve the right to change the policies contained in this syllabus as dictated by developments during the quarter. Changes will be announced in class and on Canvas.