

ACT455H1S ADVANCED TOPICS IN ACTUARIAL MATHEMATICS

Pre/corequisites

ACT348H, STA347H

Lecture Times and Locations

Tuesday 2-4PM, Thursday 2-3PM, SS2102

Instructor & Office Hours

S. Broverman, SS6016, 978-4453, sam@utstat.toronto.edu

Monday 9-11AM , Tuesday 9-11AM

Topics and Textbooks

ACT455 Notes and Problem Sets, ALICO's photocopy, St George and College

Multiple Decrement Theory: Chapters 10-11 of "Actuarial Mathematics"

Expense-loaded premiums: Chapter 15 of "Actuarial Mathematics"

Markov Chains: SOA study note by J. Daniel (available online at www.soa.org)

Poisson processes: SOA study note by J. Daniel (available online at www.soa.org)

Lecture notes will be made available at the

course website <http://www.utstat.toronto.edu> (use the actsci and then "courses" links).

Marking Scheme

Three term tests.

Test 1 - Tues., Feb. 12, 2-4PM 40%

Test 2 - Tues., Mar. 25, 2-4PM 35%

Test 3 - Thurs. Apr. 10, 2-43M 25%

There will be an oral makeup test for those who miss a term test.

Those who miss a term test must submit within one week of the test a U of Toronto Student Medical Certificate completed by a physician who attended to the illness and must schedule the oral makeup test to take place within two weeks of the original test. Failure to do so will result in a mark of 0 for that test.

A calculator is essential for working exercises, tests and final exam. There is no restriction on models of calculators allowed for use in the course.