

FALL 2014 - ACMA 335 D100

RISK THEORY (3)*Delivery Method: In Person***COURSE TIMES + LOCATION:**

Tu 10:30 AM – 11:30 AM

AQ 5009, Burnaby

Th 9:30 AM – 11:20 AM

AQ 5009, Burnaby

EXAM TIMES + LOCATION:

Oct 15, 2014

4:30 PM – 6:20 PM

AQ 4130, Burnaby

Dec 9, 2014

8:30 AM – 11:30 AM

BLU 10021, Burnaby

INSTRUCTOR:

Barbara Sanders

bsanders@sfu.ca

778-782-9074

Office: SC-K 10554

PREREQUISITES:

Prerequisite: : ACMA 320.

Description

CALENDAR DESCRIPTION:

Basic distributional quantities: moments, percentiles, generating functions and sums of random variables. Classifying and creating distributions. Frequency and severity with coverage modifications: deductibles, the loss elimination ratio and the effect of inflation for ordinary deductibles, policy limits, coinsurance. Aggregate loss models. Multi-state transition models with actuarial applications: non-homogeneous Markov chains, cash flows and their actuarial present values. The exponential distribution and the Poisson process. Covers part of the syllabus for Exam M of the Society of Actuaries, and Exam 3 of Casualty Actuarial Society. Quantitative.

COURSE DETAILS:**Course Outline:**

This course studies frequency and aggregate loss models. The topics covered correspond to part of the syllabus of Exams MFE and C of the Society of Actuaries (or Exams 3F and 4 of Casualty Actuarial Society)

Grading

| | |
|-------------|-----|
| Assignments | 10% |
| Midterms | 40% |
| Final Exam | 50% |

NOTES:

All grading is subject to change.

Materials

REQUIRED READING:

Required Text:

Loss Models: From Data to Decisions (4th ed.), by Klugman, Panger, and Willmot. Publisher: Wiley

RECOMMENDED READING:

ACTEX Manual for SOA Exam C (or CAS Exam 4), see website: www.actexamdriver.com

DEPARTMENT UNDERGRADUATE NOTES:

Students with Disabilities:

Students requiring accommodations as a result of disability must contact the Centre for Students with Disabilities 778-782-3112 or csdo@sfu.ca

Tutor Requests:

Students looking for a Tutor should send an email to stat@sfu.ca with "Tutor Request" in the subject line. Please only include information that you would like forwarded to our tutors mailing list (contains people external to the University). We accept no responsibility for the consequences of any actions taken related to tutors.

REGISTRAR NOTES:

SFU's Academic Integrity web site <http://students.sfu.ca/academicintegrity.html> is filled with information on what is meant by academic dishonesty, where you can find resources to help with your studies and the consequences of cheating. Check out the site for more information and videos that help explain the issues in plain English.

Each student is responsible for his or her conduct as it affects the University community. Academic dishonesty, in whatever form, is ultimately destructive of the values of the University. Furthermore, it is unfair and discouraging to the majority of students who pursue their studies honestly. Scholarly integrity is required of all members of the University. <http://www.sfu.ca/policies/gazette/student/s10-01.html>

ACADEMIC INTEGRITY: YOUR WORK, YOUR SUCCESS