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

**Instructor: Dr. Cary Tsai** 

# **Prerequisite:**

**ACMA 320** 

## **Required Text:**

Loss Models: From Data to Decisions 2<sup>nd</sup> ed. By Klugman, Panger, and Willmot; Publisher Wiley

## **References:**

ACTEX Manual for SOA Exam C (or CAS Exam 4), 2008, see website: www.actexmadriver.com

## **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** 

#### **Outline:**

posting of marks. Please pay careful attention to the options discussed in class at the beginning of the semester. Students are reminded that Academic Honesty is a cornerstone of the acquisition of knowledge. Scholarly integrity is required of all members of the University. Please consult the General Guidelines of the calendar for more details.

Revised June 2008