Actsc 625 Casualty and Health Insurance Mathematics

Syllabus

- Design of non-life insurance and re-insurance.

- Frequency and severity models for insurance losses: probability, estimation and inference; impact of deductibles and reinsurance.


- Bayesian estimation.

- Buhlmann-Straub and exact Credibility.

- Claims reserving for non-life insurance using run-off triangle methods.

- Introductory ruin theory.

Notes: This course, together with Actsc 624 and Actsc 623 cover all of CT6. This course also covers a substantial part of subject C of the Society of Actuaries.

Textbook: It is intended to use *Loss Models* by Klugman, Panjer and Willmot, supplemented where necessary by course notes, particularly for claims reserving.

Contact Hours: 36 lectures, 10 tutorials.

Assessment: 65% final exam (unseen); 15% midterm exam (unseen); 20% assignments.