Actsc 632 Life Insurance Mathematics 3

Syllabus

- Estimation for lifetime models; non-parametric, binomial, Poisson. Exposed to risk.
- Cox proportional hazards model.
- MLE for Markov multiple state models.
- Graduation and associated inference.
- Mortality projection using the Lee Carter model.

Notes: This course together with Actsc 624 covers the learning objectives of CT 4.

Textbook: We will use some material from Loss Models by Klugman, Panjer and Willmot, together with printed course notes.

Contact Hours: 36 lectures, 10 tutorials.

Assessment: 65% final exam (unseen); 15% midterm exam (unseen); 10% project, 10% assignments.