

Actuarial Science 531

Loss Distributions and Their estimation

(see Course Descriptions for the applicable academic year: <http://www.ucalgary.ca/pubs/calendar/>)

**Main Reference Text:** Introduction to Ratemaking and Loss Reserving for Property and Casualty Insurance (Fourth Edition), 2015, by Brown and Lennox, ACTEX, ISBN: 978-1625424747

**Additional Texts:** Society of Actuaries Study Notes STAM-24-18 and STAM-25-18

## *Syllabus*

### Topics

#### From the main text

Chapter 2: Coverages

Chapter 3: Loss reserving

Chapter 4: Rate making

Chapter 5: Intermediate topics

#### From the additional texts

STAM-24-18: Supplement to Chapter 3 of main text

STAM 22-18: Individual Health Insurance

It is intended that this course should cover the portion of the syllabus that deals with insurance and reinsurance coverages, Pricing and Reserving for Short-Term Insurance coverages of the professional actuarial examination concerned with the Short-Term Actuarial mathematics (STAM) exam. This course syllabus should be updated as needed, with this objective in mind.

ACSC 531: Loss distribution and their estimation outcomes:

By the end of this course, students will be able to:

1. Identify various non-life insurance policies, their coverage limitations.
2. Basic policy reserving methodologies.
3. Implement rate changes.
4. Learn pricing and reserving health insurance.

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