



Actuarial Science 533

Credibility Theory and Loss Distributions

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

Reference Text: "Loss Models," by Klugman, Panjer, and Willmot, third edition, 2008.

Supplementary / Backup Texts: *Introduction to Credibility Theory*, by Herzog, 1999.
(not necessarily required texts)

Syllabus

Topics

Chapter 12:

Chapter 13:

Chapter 14:

Chapter 15 (15.1-15.6.4, and 15.6.6):

Chapter 16:

Chapter 20 (20.2, 20.3 except 20.3.8, and 20.4 except 20.4.3)

Chapter 19 and / or Chapter 21 (21.1-21.2 only) (only if time permitting):

Some of the material in the chapters listed above is clearly a review of material that appears in MATH 323 or STAT 421 (e.g., like Sections 12.2), and may be covered as a reading assignment rather than during class time.

It is intended that this course should cover a portion of the syllabus for that part of the professional actuarial examination concerned with the Construction and Evaluation of Actuarial Models. Currently, this corresponds to most of the material listed above from Chapters 12-16, 20, and 21 that is on the syllabus for the Society of Actuaries Exam C. This course syllabus should be updated as needed, with this objective in mind.

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