

Lecture 01 – Syllabus

Objectives & Intro

UofT – ACT471H1F – Fall 2016

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This Course Objectives

- Advanced Ratemaking Methodologies
- Reference book: Predictive Modeling Applications in Actuarial Science, Volume 1, edited by Edward W. Frees, Richard A. Derrig, Glenn Meyers, Cambridge University Press, 2014
- Will not prepare for the SOA or CAS exam
- Will apply techniques and develop analyses on industry data
- Will share similarities with Coop traditional assignments
- Evaluation
 - 40%/10% - ratemaking report 1 / presentation
 - 40%/10% - ratemaking report 2 / presentation

This Course Objectives (cont'd)

Week	Chapters
Sep 14	Recap of ACT372 and Introduction to GLM
Sep 21	Introduction to R
Sep 28	PPV Frequency Model (1) – Distributions
Oct 5	PPV Frequency Model (2) - GLM Building
Oct 12	PPV Frequency Model (3) - GLM Validation
Oct 19	*** Present GLM Results and Submit GLM Report 1
Oct 26	PPV Severity (1) - Distributions
Nov 2	PPV Severity Model (2) - GLM Building
Nov 9	PPV Severity Model (3) - GLM Validation
Nov 16	Combination of PPV Frequency and Severity Models
Nov 23	Customer Behaviour Model
Nov 30	*** Present GLM Results and Submit GLM Report 2