



Students requiring accommodations as a result of disability, must contact the Centre for Students with Disabilities 778-782-3112 or csdo@sfu.ca

Instructor: [Dr. Yi Lu](#)

Prerequisite:

ACMA 320

Required Text:

Loss Models: From Data to Decisions, 2nd Edition, 2004, S.A.Klugman, H.H. Panjer and G.E. Willmot; Publisher: Wiley

References:

ACTEX Study Manual for SOA Exam C and CAS Exam 4, Fall 2005 Edition, by S.A.Broverman, Publisher: ACTEX

Survival Models and Their Estimation, 3rd Edition, by D. London, Publisher: ACTEX

Calendar Description:

Quality of an estimator: unbiasedness, asymptotic unbiasedness, consistency, means squared error, uniform minimum variance. Confidence interval. Tests of hypotheses. Estimation for complete data. Estimation for grouped data. Estimation for modified data: Kaplan-Meier estimator, variances and confidence intervals of the empirical estimator, kernel density estimator. Parameter estimation. Variance of the estimators and confidence intervals. Model selection: graphical procedures, goodness-of-fit test, likelihood ratio test.