Students requiring accommodations as a restudisability, must contacthe Centre for Studentwith Disabilities 778-782-312 or csdo@sfu.ca

Instructor: Dr. Gary Parker

## Prerequisite:

Math 232, STAT 285, and ACMA 210 (with a grade of C+ or higher)

## Required Text:

Actuarial Mathematics (2nd ed) by Bowers, et al.; Publisher: Society of Actuaries

## References:

- x Models for Quantifying Risk by R. Cunningham, T. Herzog, R. London, Publisher: ACTEX
- x ACTEX Study Manual for Exam M of the SDAMatt Hassett, Donald G. Sterry, Amy Steeby, publisher: ACTEX.
- x Life Contingencies y C.W. Jordan; publisher: SOA.
- x Life Insurance Mathematidsy H.U. Gerber; publisher: Springer-Verlag.
- x The Mathematics of Life Insurance by Menge and Fisher; publisher: Ulrich's.

## Calendar Description:

Survival distributions: age at death, life tables, fractionesagnortality laws, select and ultimate life tables. Life iasoe: actuarial present value function (apv), moments of apv, basic life insurance contracts, portfolio. Life annuities: actuarial accumulation function, moments of apv, basic life annuities. Net annual premiums: actuarial equivalence principle, loss fur accumulation type benefits. Actuarial reserves: prospectise function, basic contracts, recursive equations, fractional durations. Covers part of the syllabus for Exam M of the Spoie Actuaries, and Exam 3 of the Casualty Actuarial Society, and covers practical applications such as computational aspects