


ACMA 425-3
ACTUARIAL MATHEMATICS II

FALL 2001
DAY COURSE

Instructor: Ken Collins

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- *Life Insurance Mathematics* by Gerber, publishers: Springer-Verlag
 - *The Mathematics of Life Insurance* by Menge and Fisher; publishers: Ulrich's
 - *Life Contingencies* by C.W. Jordan; publishers: Society of Actuaries

Course Description:

This course, a continuation of ACMA 320, covers the fundamentals of Actuarial Mathematics. 

Multiple Decrement Models:

Random and Deterministic Survivorship groups, Associated single decrement.

- **Introduction to Valuation Theory for Pension Plans:**
Contributions, Benefits.
 - **Models including Expenses:**
Types of Expenses, Per Policy Expenses, Accounting, Modified Reserves (FPT, Canadian Standard)
 - **Nonforfeiture Benefits and Dividends:**
Cash Value, Insurance Options, Asset Shares, Dividends.
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Tentative Grading: