

**ACMA 320-3E  
ACTUARIAL MATHEMATICS I**

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**Spring 2002  
EVENING COURSE**

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Instructor: **AVINASH MANIRAM**

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**Prerequisites:**

ACMA 310 (with a grade of C+ or higher), MATH 232 and STAT 280 must precede or be taken concurrently.

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**Required Text:**

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

**References:**

- *ACTEX Study Manual for course 150 examination of the SOA* by G. Crofts, M.A. Gauger, D. London; publishers: ACTEX.
  - *Life Contingencies* by C.W. Jordan; publishers: SOA.
  - *Life Insurance Mathematics* by H.U. Gerber; publishers: Springer-Verlag.
  - *The Mathematics of Life Insurance* by Menge and Fisher; publishers: Ulrich's.
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**Course Description:**

Survival distributions: age at death, life tables, fractional ages, mortality laws, select and ultimate life tables. Life insurance: actuarial present value function (apv), moments of

**Grading:**

Homework - 10%

Midterm I - 20%

Midterm II - 20%

Final - 50%

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*Students should be aware that they have certain rights to confidentiality concerning the return of course papers and the posting of marks. Please pay careful attention to the options discussed in class at the beginning of the semester.*

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Revised October 2001