



Actuarial Science 327

Life Contingencies I

The survival function, force of mortality, life tables, analytical laws of mortality, life insurance, continuous and discrete life annuities, recursion equations. Introduction to benefit premiums and/or insurance and annuity models with interest as a random variable as time permits.

Course Hours: H(3-1T)

Prerequisite(s): A grade of "C" or higher in [Mathematics 321](#).

Notes: [Actuarial Science 325](#) is recommended.

Recommended Text: "Actuarial Mathematics," Bowers et.al, second edition, Society of Actuaries.

Syllabus

<u>Topics</u>	<u>Number of Hours</u>
Chapters 3, 4, 5 of the above text	
Survival distributions and life tables	12
Life insurance - net single premiums	11
Life annuities	11
Review	2
TOTAL HOURS	36
