



## ACTUARIAL SCIENCE 427 "LIFE CONTINGENCIES II"

**Calendar Description:** H(3-1T)

Benefit premiums, premium principles, fully continuous and fully discrete premiums.  
Benefit reserves, various reserve factors, analysis of benefit reserves. Multiple life  
functions, dependent and independent models, related annuities and insurances.

**Prerequisite:** Mathematics 323 and Actuarial Science 327.

**Text:** "Actuarial Mathematics," Bowers, Gerber, Hickman, Jones, Nesbitt, second edition,  
Society of Actuaries, 1997.

### *Syllabus*

#### Topics

Chapter 6 (6.1-6.4): Benefit Premiums

Chapter 7 (7.1-7.6): Benefit Reserves

Chapter 8 (8.1-8.4): Analysis of Benefit Reserves

Chapter 9 (9.1-9.8): Multiple Life Functions

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