



UNIVERSITY OF  
CALGARY

FACULTY OF  
SCIENCE

Department of Mathematics and  
Statistics

Actuarial Science 427

Life Contingencies II

(see Course Descriptions for the applicable academic year: <http://www.ucalgary.ca/pubs/calendar/>)

Syllabus:

**Main reference Text:** "Actuarial mathematics for life contingent risk (Second edition)",  
by David C.M. Dickson, Mary R. Hardy and Howard R. Waters

## *Syllabus*

### **Topics**

Chapter 6: Premium Calculation

Chapter 7: Policy values

Chapter 8.1-8.7: Multiple state models

Time permitting: Chapter 11: Yield curves and non-diversifiable risk

Instructor may draw materials for assigned topics from an alternative text which uses the notation given in the main reference text.

It is intended that this course should cover an approximately one third of the syllabus for the Society of Actuaries Exam MLC – Models for Life Contingencies. This course syllabus should be updated as needed, with this objective in mind.