



AS2427B Long Term Actuarial Mathematics Course Outline

1. Course Information

Course Information

Course Name: Long Term Actuarial Mathematics

Course Number: AS 2427B

Term: Winter

Location: B&GS-0165 (Online delivery for at least the month of January)

Lecture hour: Mon, Wed, Fri 12:30 PM – 1:30 PM

Tutorial: Tue 2:30 PM – 3:30 PM

List of Prerequisites

AS2553A/B, Stats2857A/B, and

3. Course Syllabus, Schedule, Delivery Mode

Models for the time until death, single life annuity and life insurance present values and their probability distributions; introduction to equivalence principle and premium calculations.

Upon successful completion of this course, students will be able to:

- < Calculate and interpret standard functions including survival and mortality probabilities, force of mortality, and complete and curtate expectation of life.
- < Calculate and interpret probabilities, means, variances, and percentiles.
- < Calculate and interpret the effect of changes in underlying assumptions such as mortality and interest.
- <

12	Mar 28 – Apr 1	Premium calculations	KL
13			

All course material will be posted to OWL: <http://owl.uwo.ca>.

If students need assistance

Academic Consideration for Student Absences

Students who experience an extenuating circumstance (illness, injury or other extenuating circumstance) sufficiently significant to temporarily render them unable to meet academic requirements may submit a request for academic consideration through the following routes:

- (i) Submitting a Self-

If you miss the Final Exam, please contact the Academic Counselling office of your Faculty of Registration as soon as you are able to do so. They will assess your eligibility to write the Special Examination (the name given by the University to a makeup Final Exam).

You may also be eligible to write the Special Exam if you are in a "Multiple Exam Situation" (e.g., more than 2 exams in 23-hour period, more than 3 exams in a 47-hour period).

If a student fails to write a scheduled Special Examination, the date of the next Special Examination (if

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course will require you to have a reliable internet connection and a device that meets the technical requirements for this service. More information about this remote proctoring service, including technical requirements, is available on Western's Remote Proctoring website at:

<https://remoteproctoring.uwo.ca>.

9. Support Services

Please visit the Science & Basic Medical Sciences Academic Counselling webpage for information on adding/dropping courses, academic considerations for absences