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# MATH 540 Life Actuarial Mathematics (4 credits)

Offered by: Mathematics and Statistics ([Faculty of Science \(/study/2022-2023/faculties/science/\)](#))

## Overview

Mathematics & Statistics (Sci) : Life tables and distributions; force of mortality; premium, net premium, and reserve valuation for life insurance and annuity contracts (discrete and continuous case); cash flow analysis for portfolios of life insurance and annuities; asset liability management; numerical techniques for multiple decrement and state models; portfolio valuation of aggregate risks.

**Terms: This course is not scheduled for the 2022-2023 academic year.**

Instructors: There are no professors associated with this course for the 2022-2023 academic year.

- Prerequisites: [MATH 323 \(/study/2022-2023/courses/math-323/\)](#) or equivalent and [MATH 329 \(/study/2022-2023/courses/math-329/\)](#)

*This course may be used as a required or complementary course in the following programs:*

[Bachelor of Arts \(B.A.\) - Major Concentration Statistics \(/study/2022-2023/faculties/arts/undergraduate/programs/bachelor-arts-ba-major-concentration-statistics/\)](#)

[Bachelor of Arts \(B.A.\) - Major Concentration Statistics \(/study/2022-2023/faculties/basc/undergraduate/programs/bachelor-arts-ba-major-concentration-statistics/\)](#)

[Bachelor of Arts \(B.A.\) - Supplementary Minor Concentration Statistics \(/study/2022-2023/faculties/arts/undergraduate/programs/bachelor-arts-ba-supplementary-minor-concentration-statistics/\)](#)

[Bachelor of Arts \(B.A.\) - Supplementary Minor Concentration Statistics \(/study/2022-2023/faculties/basc/undergraduate/programs/bachelor-arts-\)](#)

[ba-supplementary-minor-concentration-statistics](#))

[Bachelor of Science \(B.Sc.\) - Honours Probability and Statistics](#)  
(<https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-honours-probability-and-statistics>)

[Bachelor of Science \(B.Sc.\) - Honours Probability and Statistics](#)  
(<https://www.mcgill.ca/study/2022-2023/faculties/arts/undergraduate/programs/bachelor-science-bsc-honours-probability-and-statistics>)

[Bachelor of Science \(B.Sc.\) - Liberal Program - Core Science Component Statistics](#)  
(<https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-liberal-program-core-science-component-statistics>)

[Bachelor of Science \(B.Sc.\) - Major Statistics](#)  
(<https://www.mcgill.ca/study/2022-2023/faculties/science/undergraduate/programs/bachelor-science-bsc-major-statistics>)



Visit *Minerva Class Schedule* for course dates & times

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