



Faculty of Arts and Science
JOB POSTING – SESSIONAL LECTURER – CUPE UNIT 3
Winter Session: January 1, 2024 to April 30, 2024

STA2570H - Numerical Methods for Finance and Insurance (0.5 FCE)

This course explores the practical application of various numerical methods to finance and insurance modeling. It covers topics including: the generation of random variables, simulating solutions of stochastic differential equations, variance reduction methods, multi-level sampling, least square Monte Carlo, Markov chain Monte Carlo, and solving partial difference equations stemming from derivative valuation, optimal control, and optimal stopping.

Estimated Course Enrolment	30
Estimated TA Support	70 hours. The availability of TA support is contingent on class enrolment and class size.
Schedule	Tuesdays 6:00pm to 9:00pm
Tutorial	Mondays 2:00 to 3:00 pm
Delivery Method	In Person - Subject to adjustments imposed by public health requirements for physical distancing.
Sessional Dates	January 1, 2024 to April 30, 2024
Salary - Includes Vacation Pay May be negotiated based on industry experience.	\$9,457.90 for Sessional Lecturer I; \$9,930.79 for Sessional Lecturer I Long Term; \$10,121.77 for Sessional Lecturer II; \$10,326.62 for Sessional Lecturer II Long Term; \$10,362.76 for Sessional Lecturer III \$10,570.02 for Sessional Lecturer III Long Term (Rates are pro-rated to FCE)

Qualifications: PhD in the field of Mathematical Finance. Currently active in the finance industry with at least five years' experience in risk management. Prior experience teaching at the university level. Prior experience teaching STA2570 or a similar course is an asset. **Note: Applicants may be asked to supply references.**

Description of duties: Preparation and delivery of lectures in this course. Supervision of teaching assistant(s) assigned to this course and paid by university. Preparation, supervision and grading of assignments, tests and examinations in accordance with university regulations

Closing Date: October 30, 2023

Application Procedure: All individuals interested in the position must submit a Curriculum Vitae and the CUPE 3902 Unit 3 Application Forms available at <https://uoft.me/CUPE-3902-Unit-3-Application-Form> to unit3apps.statistics@utoronto.ca.

This job is posted in accordance with the CUPE 3902 Unit 3 Collective Agreement.

It is understood that some announcements of vacancies are tentative, pending final course determinations and enrolment. Should rates stipulated in the collective agreement vary from rates stated in this posting, the rates stated in the collective agreement shall prevail.

Preference in hiring is given to qualified individuals advanced to the rank of Sessional Lecturer II or Sessional Lecturer III in accordance with Article 14:12 of the CUPE 3902 Unit 3 collective agreement.

Please note: Undergraduate or graduate students and postdoctoral fellows of the University of Toronto are covered by the CUPE 3902 **Unit 1** collective agreement rather than the Unit 3 collective agreement and should not apply for positions posted under the Unit 3 collective agreement.