Course Number and Title: CSC165H1Y, Mathematical Expression and Reasoning for Computer Science

Course description: Introduction to abstraction and rigour. Informal introduction to logical notation and reasoning. Understanding, using and developing precise expressions of mathematical ideas, including definitions and theorems. Structuring proofs to improve presentation and comprehension. General problem-solving techniques. Running time analysis of iterative programs. Formal definition of Big-Oh. Diagonalization, the Halting Problem, and some reductions. Unified approaches to programming and theoretical problems.

Number of positions available: 1

Estimated course enrolment: 120

Estimated TA support: one 54-hour TA position for every 30 students

Schedule: T6–9 (with tutorials W6–8)

Sessional dates: May 1st, 2016 to August 31st, 2016

Please note: This position includes the completion of any course work, including grading, not completed by August 31st, 2016.

Salary (minimum stipends, including vacation pay): Sessional Lecturer I $9,334.34; Sessional Lecturer I Long Term $9,691.38; Sessional Lecturer II $9,793.39; Sessional Lecturer III $10,150.42.

Please note that should rates stipulated in the collective agreement vary from rates stated in this posting, the rates stated in the collective agreement shall prevail.

Final availability of the position is contingent upon enrolment, budgetary consideration and the determination of appointments as governed by the collective agreement.

Qualifications:
• Graduate degree in computer science or closely related field required.
• Expertise in topic area of the course required.
• Strong organizational, interpersonal, and communication skills required.
• Teaching experience at the university level or equivalent industry level required.
  ◦ Demonstrated evidence of excellence in teaching preferred.

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.
Description of duties: Responsible for all aspects of delivering the course, including:

- Planning the lectures, tutorials, assignments and tests, and marking schemes.
- Maintaining a course website.
- Delivering the lectures.
- Providing appropriate contact time outside of class to students, through office hours, email, the course website and/or the course bulletin board.
- Writing the TA contract(s) for the course and supervising the TAs.
- Ensuring that tutorials and/or labs are delivered appropriately by the TAs.
- Invigilating the final exam.
- Managing the grades and submitting final course grades. This includes completing any grading not handled by the TAs.
- If there are other sections of the same course, coordinating with instructors for the other sections to ensure consistent delivery of the course material and assessments (including the use of common assignments and a common final exam).

While there is a lot of room for creativity in course delivery, instructors will be expected to follow the basic content and style used by the faculty members who normally teach the course, and must get approval from these faculty members or the Associate Chair on any substantial changes to the course.

Closing date: Thursday 24 March 2016

All individuals interested in this position must submit a Curriculum Vitae and the CUPE 3902 Unit 3 application available at:

- [http://www.hrandequity.utoronto.ca/resources/forms.htm](http://www.hrandequity.utoronto.ca/resources/forms.htm)

with the following information:

- a clear description of how you meet the qualifications listed
- the name of at least one reference who can comment on your teaching ability
to [ugo@cs.utoronto.ca](mailto:ugo@cs.utoronto.ca).

Please note: Undergraduate or graduate students and postdoctoral fellows of the University of Toronto are covered by the CUPE 3902 [Unit 1](http://www.hrandequity.utoronto.ca/resources/forms.htm) collective agreement rather than the Unit 3 collective agreement, and should not apply for positions posted under the Unit 3 collective agreement.

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