



CUPE Local 3902 (Unit 3) Job Posting

Sessional Lecturer Position

Posting Date: November 28, 2017

Program: *Master of Health Informatics (MHI)*

Sessional dates of appointment: *Winter 2018, January to April*

Course title: MHI2007H: Quantitative Methods for Health Informatics

Course Description:

This course is designed to give the students a working knowledge of selected statistical analysis techniques relevant to health services research. Specifically, the course covers intermediate statistical methods normally found in research and work applications: analysis of variance for one-way and multi-way data; linear and multiple regression; multiple correlation, analysis of covariance, repeated-measures analysis. In addition, students will learn about sampling, survey and experimental design, and power analysis. The emphasis will be placed on conceptual understanding of statistical techniques and their use to address applied problems.

Objectives:

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

- Gain an overview of typical format of research, including statement of purpose, hypotheses/research questions and methods used;
- Gain an understanding of data management for univariate vs. bivariate descriptive statistics purposes;
- Gain an understanding of hypothesis testing, estimation and effect size under inferential statistics;
- Gain an understanding of cluster analysis;
- Examine and analyze the difference between general linear regression models as opposed to multiple regression and logistic regression, one sample and two sample t-tests, types of k-means, parametric and non-parametric tests.

Class schedule: Weekly, 3 hours

Estimated enrolment: 35

Estimated TA support: based on enrolment - None

Qualifications:



- PhD or Masters level education in Measurement and Evaluation, Statistics or related field;
- Demonstrated experience conducting research projects requiring quantitative, qualitative and mixed research methodology;
- Experience in design and implementation of data collection instruments and effective methods for communicating research results;
- Experience teaching graduate-level courses, preferably in research methodology and/or statistics related field;
- Demonstrated ability to relate to mature students and facilitate group learning processes;
- Comfortable with electronic teaching tools such as Learning Management Systems (e.g., Blackboard), PowerPoint, as well as on-line collaboration tools (Blogs, Wikis, Discussion Boards, Webinars, or Video-conferencing).

Duties:

- Course instructor for a professional graduate course using competency-based learning and assessment methods.
- Responsible for course design and assessment of student outcomes. Must be accessible to students outside of classroom hours.

Salary: Commensurate with experience and qualifications

How to submit an application: please send your CV and cover letter via e-mail to ihpme.appointments@utoronto.ca.

Closing date: December 6, 2017

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.