The Faculty of Health Sciences requires a Sessional Instructor to teach the following course during the Fall Term 2018. The duration of employment will be September 1 to December 21, 2018 inclusive.

*NOTE: Course location code: BBY=Burnaby

<table>
<thead>
<tr>
<th>COURSE # &amp; CAMPUS*</th>
<th>COURSE TITLE</th>
<th>LECTURE/SEMINAR TIME/LOCATION</th>
<th>CLOSING DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSCI 478-3 / HSCI 778-8 (BBY)</td>
<td>Seminar in Molecular Epidemiology of Infectious Diseases</td>
<td>Mondays 9:30 am - 12:20 pm</td>
<td>June 12, 2018</td>
</tr>
</tbody>
</table>

Recommended Qualifications:
- Doctoral degree

Minimum Qualifications:
- Graduate degree in a related field with demonstrated expertise in the content areas covered by the course, as identified in the Calendar description and sample course outline
- Experience teaching university-level courses
- Evidence of teaching ability commensurate with the responsibility of teaching the assigned credit course and of carrying out the duties to the effective conduct of that course.

The course Calendar description can be found here:

Sample course outlines are shown on the pages following this ad.

Interested applicants should send, by the closing date shown above, one PDF document containing (1) a covering letter and (2) a CV to:

Sessional Applications  
c/o Dr. Stephen Smith, Associate Dean, Education  
Faculty of Health Sciences, Simon Fraser University  
Blusson Hall 11320, 8888 University Drive  
Burnaby, BC V5A 1S6  
Email: fhs_sessional@sfu.ca.

All qualified candidates are encouraged to apply; however, Canadian citizens and permanent residents will be given priority. Simon Fraser University is committed to employment equity and welcomes applications from all qualified women and men, including visible minorities, Aboriginal people, persons with disabilities, and LGBTQ-identified persons.

Salary and conditions are determined by the TSSU Collective Bargaining Agreement.

Course offerings are subject to budgetary approval and enrolment figures.
The information submitted with your application is collected under the authority of the University Act (R.S.B.C. 1996, c.468, s. 27(4)(a)), applicable federal and provincial employment regulations and requirements, the University's non-academic employment policies and applicable collective agreements.

The information is related directly to and needed by the University to initiate the employment application process. The information will be used to contact references supplied by you, evaluate your qualifications and complete the employment process by making a hiring decision.

If you have any questions about the collection and use of this information please contact the Executive Director, Human Resources, Simon Fraser University, Burnaby, BC V5A 1S6. Telephone 778-782-3237.
FACULTY OF HEALTH SCIENCES

HSCI 478-3 Seminar in Molecular Epidemiology of Infectious Diseases

PREREQUISITES:

HSCI 330 and MBB 331 as pre- or co-requisites.

CALENDAR DESCRIPTION:

Application of modern molecular methods to epidemiological questions. Globally-relevant and emerging infectious diseases will be highlighted. Students with credit for HSCI 432 in 2010 may not complete HSCI 478 for further credit.

COURSE DETAILS:

COURSE DESCRIPTION: This senior seminar course will provide a broad overview of the application of modern molecular methods to infectious disease epidemiology. Topics will include the identification, monitoring, distribution and evolution of pathogens in human populations, the identification of genetic risk factors for disease acquisition and/or progression, and the application of molecular methods to screening, prevention and treatment of infectious diseases. Globally relevant diseases will be highlighted, with an emphasis on the molecular epidemiology of HIV/AIDS.

COURSE-LEVEL EDUCATIONAL GOALS:

OVERALL GOAL: By the end of the course students will have a strong foundational knowledge of molecular epidemiology methods, the distribution of host and pathogen genetic diversity in populations, and an understanding of how genetic factors influence disease risk and outcomes.

EXPECTED OUTCOMES: Students will be able to describe modern molecular techniques (including PCR, DNA sequencing and phylogenetic analysis) and their application to infectious disease epidemiology. Students will gain a basic understanding of how host and pathogen genetic variation is distributed globally and how such variation influences disease acquisition risk and disease outcomes. Students will gain confidence in oral and written presentation skills. Students will gain experience with literature searches and confidence in reading, interpreting and critiquing primary research articles.

GRADING:

- Assignment 1 20%
- Assignment 2 20%
- Assignment 3 5%
- Midterm exam 25%
- Final Exam 30%

MATERIALS + SUPPLIES:

REQUIRED TEXT: None. Required readings will be in the form of primary and review articles in scientific journals; links to these articles will be provided.
FACULTY OF HEALTH SCIENCES

HSCI 778-3  Seminar in Molecular Epidemiology of Infectious Diseases

PREREQUISITES:

BISC 303, 330, MBB 331, or permission from the instructor.

CALENDAR DESCRIPTION:

Application of modern molecular methods to epidemiological questions. Globally-relevant and emerging infectious diseases will be highlighted. The course will emphasize critical review of the current literature in the field.

COURSE DETAILS:

This graduate seminar course will provide a broad overview of the application of modern molecular methods to infectious disease epidemiology. Topics will include the identification, monitoring, distribution and evolution of pathogens in human populations, the identification of genetic risk factors for disease acquisition and/or progression, and the application of molecular methods to screening, prevention and treatment of infectious diseases. Globally relevant diseases will be highlighted, with an emphasis on the molecular epidemiology of HIV/AIDS.

COURSE-LEVEL EDUCATIONAL GOALS:

OVERALL GOAL: By the end of the course students will have a strong foundational knowledge of molecular epidemiology methods, the distribution of host and pathogen genetic diversity in populations, and an understanding of how genetic factors influence disease risk and outcomes.

EXPECTED OUTCOMES: Students will be able to describe in detail modern molecular techniques (including PCR, DNA sequencing and phylogenetic analysis) and their application to infectious disease epidemiology. Students will gain an understanding of how host and pathogen genetic variation is distributed globally and how such variation influences disease acquisition risk and disease outcomes. Students will gain confidence in oral and written presentation skills. Students will gain experience with literature searches and become proficient reading, interpreting and critiquing primary research articles.

GRADING:

- Assignment 1 20%
- Assignment 2 20%
- Assignment 3 10%
- Midterm Exam 25%
- Final Exam 25%

MATERIALS + SUPPLIES:

REQUIRED TEXT: None. Required readings will be in the form of primary and review articles in scientific journals; links to these articles will be provided.