The Faculty of Health Sciences requires Sessional Instructors to teach the following courses during the Spring Term 2019. The duration of employment will be January 1, 2019 to April 30, 2019 inclusive. All courses will be held at the Burnaby campus.

<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 211-3</td>
<td>Persp. on Cancer, Cardio. &amp; Metabolic Disease</td>
<td>Tuesday 4:30 - 7:20 p.m.</td>
<td>Oct. 12, 2018</td>
</tr>
<tr>
<td>HSCI 424-4/890-4</td>
<td>Strategic Applications of GIS in Health</td>
<td>Wednesday &amp; Friday 12:30 - 2:20 p.m.</td>
<td>Oct. 12, 2018</td>
</tr>
<tr>
<td>HSCI 481-3</td>
<td>Senior Seminar in Social Health Science</td>
<td>Wednesday 9:30 a.m. - 12:20 p.m.</td>
<td>Oct. 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.

Course Calendar descriptions 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. Nicole Berry, 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 211-3  Perspectives on Cancer, Cardiovascular, and Metabolic Diseases

PREREQUISITES
HSCI 100 or BISC 101, HSCI 130.

CALENDAR DESCRIPTION
An interdisciplinary overview of the major non-communicable diseases - cancers, cardiovascular and metabolic diseases - from a public health perspective. Review of biological mechanisms, risk factors, historical and cultural contexts, and global distribution.

COURSE DESCRIPTION
In this course, we will examine cancer, cardiovascular and metabolic diseases from a range of perspectives (biology, pathology, epidemiology, behaviour, societal factors, policy, public health).

TOPICS
The course will be divided into four sections – the first section will focus on methodologies, the second on cardiovascular health and disease; the third shorter section on obesity and diabetes, and the final section on cancer. In each section, we will examine how a range of perspectives can be applied to help understand the problems of cancer, cardiovascular and metabolic diseases.

COURSE-LEVEL EDUCATIONAL GOALS
Upon completion of the course, students will:

- be able to locate material addressing cancer, cardiovascular and metabolic diseases from a range of sources and academic disciplines;
- be able to describe national and global patterns of cancer, cardiovascular and metabolic diseases;
- know the basic pathogenesis of the major cancers and cardiovascular and metabolic diseases;
- understand factors that influence risk and potential mechanisms involved in disease causality;
- demonstrate awareness of current issues and challenges related to chronic disease prevention and treatment at the population level;
- become familiar with different perspectives from which to assess and approach the problems of chronic disease; and
- become familiar with how knowledge from varying perspectives can be applied to improve population health outcomes related to cancer, cardiovascular and metabolic disease.

GRADING
Tutorial attendance/participation 10%  Paper  20%
Tutorial presentation 10%  Final examination (cumulative) 35%
Mid-term 25%

NOTES
The instructor may make changes to the syllabus if necessary, within Faculty/University regulations.

MATERIALS + SUPPLIES
- iClicker (available at the SFU Bookstore)
- Required Textbooks: None

Readings available electronically. These can be found in the “Web Links” section on the course Canvas site (see http://www.sfu.ca/canvas.html).
Sample course outline: HSCI 424-4
(Please inquire to discuss the outline for the related graduate course, HSCI 890-4.)

FACULTY OF HEALTH SCIENCES

HSCI 424-4 Strategic Applications of GIS in Health

PREREQUISITES
A minimum of 60 credits and HSCI 330 and one of STAT 302 or STAT 305.

COURSE DETAILS
The goal of this course is to provide an introduction to Geographical Information Systems (GIS) and its use in health research and public health practice.

This course is designed to provide students with an overview of relevant theoretical aspects of health geography, mapping, and spatial analysis along with practical experience of using GIS software. Topics covered may include infectious disease surveillance, injury mapping, environmental justice, exposure assessment, environmental health, social determinants of health, and access to health resources. The course will draw on real world examples and employ public use datasets for assignments.

Two 2-hour sessions per week in the computer lab will be a combination of lecture, presentations, and hands on data analysis.

Some sessions of this course may be taught as CityStudio partner courses.

COURSE-LEVEL EDUCATIONAL GOALS
Students who fulfill all course requirements will be better prepared to:

1. Explain the role of GIS-based techniques and approaches to analyzing and describing data representing a public health issues. Primary assessment: Labs, in class assignments, critical appraisal, final group assignments.
2. Critique the use of GIS as an approach to representing data, people, their health outcomes, and strengths and weaknesses in regards to issues such as confidentiality, bias, and temporality. Primary assessment: Critical appraisal assignment.
3. Work in teams to design and apply GIS techniques to complete a health research study using Canadian population health data. Primary assessment: Final group project.
4. Apply GIS techniques to build datasets, identify spatial patterns in health outcomes, and conduct exploratory analyses of risk factors, in the context of a lab. Primary assessment: Labs, in class assignments, and final group project.

GRADING
In class exercises and contributions 10%
Critical appraisal of journal article 10%
Lab exercises 30%
Final project 50%

NOTES
Attendance is compulsory to in order to complete assignments and acquire skills necessary for the final project. The computer laboratory is available outside of class hours (when another class is not in session) for independent work on the lab exercises and final project.
FACULTY OF HEALTH SCIENCES

HSCI 481-3  Senior Seminar in Social Health Science

PREREQUISITES
HSCI majors with 90 units, including at least 15 upper division HSCI units. Other prerequisites may vary according to topic.

CALENDAR DESCRIPTION
An in-depth overview of the sociocultural, epidemiological, and policy aspects of population and public health. May be repeated for credit.

COURSE DETAILS
In Canada, life expectancy is 83 years for women and 78 years for men. While the three leading causes of death in Canada are the same for both women and men, on average, men die younger from these conditions. In other countries, women are more likely to die at younger ages than men. Population patterns of morbidity are even more complex; descriptions, experiences and distributions of health and disease vary both across and within groups of women and men. Why? Are observed differences in health, illness and disease between women and men biological? Or are these differences socially created? And how do social and biological factors influence each other? We will ask how can we investigate the relationship between biological and social determinants of health and when and why should our science attempt to understand these differences in the health of women and men? How can health programs and policy be designed to address sex and gender as determinants of health? And what can scientific inquiry in this area offer us in our attempt to improve population health? This course will offer students an opportunity to explore these issues through an exploration of literature examining sex, gender and health. The course will begin with a overview of the concepts of sex and gender and will cover theoretical frameworks from women’s studies, gender studies, sociology and public health that have been applied to understand the relationship between gender and health. We will then explore the relationship between gender and a range of health issues across a variety of different populations. The topics covered will vary by semester, based upon student and instructor preference.

COURSE-LEVEL EDUCATIONAL GOALS
Upon completion of the course, students will be able to:

- Define the concepts of sex and gender and describe ways sex and gender can be measured;
- Explain theoretical frameworks that have been applied to examine the relationships between gender and health;
- Critically examine gender as a determinant of health and situate gender in relation to other determinants of health;
- Conduct a gender analysis of a health program, policy or research topic and make recommendations for future initiatives related to the topic area; and
- Recognize the influence of gender in their lives and the lives of others.

GRADING
Participation 10%
Homework Assignments / Reflections 30%
Research Project (in pairs) 35%
Facilitated Discussion (no PowerPoints allowed) 15%
Oral Exam / Presentation of Research Project (during exam period) 10%
NOTES
This will be an interactive seminar where preparation and participation is essential to the success of the course. The course will include lectures, guest presentations, short films and classroom activities, with discussion a part of all of these activities. Students will be expected to share their written work with their peers and will take leadership roles in the course delivery.

NOTE: Homework assignments will be due on Wednesday mornings!

MATERIALS + SUPPLIES
You will be required to keep a journal during this course.

REQUIRED READING
  2. Original articles will be assigned each week (all available online through SFU Library system).