The Faculty of Health Sciences requires two Sessional Instructors to team-teach the following course during the Spring 2020 Term. The duration of employment will be January 27 to April 30, 2020 inclusive. The course is offered on Burnaby campus.

<table>
<thead>
<tr>
<th>COURSE NUMBER</th>
<th>COURSE TITLE</th>
<th>LECTURE TIME</th>
<th>CLOSING DATE</th>
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<tbody>
<tr>
<td>HSCI 324-3</td>
<td>Human Population Genetics and Evolution</td>
<td>Mondays: 2:30 p.m. – 5:20 p.m.</td>
<td>January 24, 2020 at noon</td>
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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 description is located at [https://www.sfu.ca/students/calendar/2020/spring/courses/hsci.html](https://www.sfu.ca/students/calendar/2020/spring/courses/hsci.html)

Sample course outline is shown following this ad.

Application Instructions:

Interested applicants should send, by the closing date shown above, one PDF document containing (1) a cover letter addressing the minimum qualifications for this posting 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.

In the body of your email, copy and paste the following questions and send with your response:

1. Do you currently work for, or have you worked in the past for, Simon Fraser University? (Respond yes or no. If yes, please provide your SFU ID, student/employee number if known.)
2. Are you legally entitled to work in Canada? (Respond yes or no).
3. If you are currently on a work or study permit, please indicate expiry date and all conditions associated with your permit, if applicable.

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.

Sample course outline: HSCI 324-3

HSCI 324-3: Human Population Genetics and Evolution

CALENDAR DESCRIPTION: Human variation and human health in the context of population genetics, epidemiology, demography, and human evolution. Prerequisite: BISC 202.

COURSE DETAILS: An explanation of human ancestry and diversity in the context of genetic variation, evolution, demography, and epidemiology. This course has been designed to show how genetic features in an ever-changing environment have shaped human history and health.

COURSE-LEVEL EDUCATIONAL GOALS: By the end of this course, I anticipate that students will be able to describe the basic principles of human heredity as it relates to population genetics. Students should be able to describe the selective and stochastic forces that shape the distribution of select genetic signatures in humans. Emphasis is on the influence of climate change, factors and topography that have shaped human dispersal and demography during early and more recent human history. Students should be able to understand how evolution’s main components: genetic variation, adaption and competition, impact human health and disease, and fitness. Upon completion of this course, students should be able to apply simple mathematical principles to analyze data from population genetic studies. Discussion is designed to enhance the synthesis of information and verify the value of evidence from primary sources in the scientific literature.
**GRADING:**
In class quizzes - weekly or bi-weekly 20%
Assignments (2X) 15%
Exam I 30%
Exam 2 35%

**MATERIALS + SUPPLIES:**
There is no required textbook for this course. Rather, the reading material will come from several sources. PDF versions of documents will be available on Canvas.

**RECOMMENDED READING:**
The major source texts include:

Principles of Populations Genetics, 4th Ed. by Hartl and Clark (and the shorter version: A Primer of Population Genetics, 3rd Ed. By Hartl);

Human Evolutionary Genetics, 2nd Edition by Jobling, Hollox, Hurles, Kivisild and Tyler-Smith;

Genes, Culture, and Human Evolution: A Synthesis by Stone and Lurquin: The human Inheritance by Sykes;