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## CRITERION 3.0 – CREATION, APPLICATION AND ADVANCEMENT OF KNOWLEDGE

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### CRITERION 3.1 RESEARCH

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**The program shall pursue an active research program, consistent with its mission, through which its faculty and students contribute to the knowledge base of the public health disciplines, including research directed at improving the practice of public health.**

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#### **Research Activities**

3.1.a A description of the program’s research activities, including policies, procedures and practices that support research and scholarly activities.

#### ***General Description of Research within the Public Health Programs***

The Faculty of Health Sciences (FHS) at Simon Fraser University (SFU) has adopted a population and public health perspective as a framework for its diverse research programs that provides a basis for facilitating interdisciplinary engagement and problem-solving of health issues that span molecular and cellular processes, field-based investigation, intervention and evaluation, as well as policy processes that promote the health of communities. The core areas of research focus include: global health, infectious disease, mental health and addictions, environmental and occupational health, population and public health, social and health policy science, and social inequities and health.

A listing of currently active major research initiatives underway by Public Health programs faculty at SFU can be found on the FHS website at: <http://www.fhs.sfu.ca/research/active-projects> and as specifically recorded under criterion 3.1.c. below.

#### **The FHS is also home to several nationally recognized research centres:**

- The mandate of the **Centre for Applied Research in Mental Health and Addictions (CARMHA)** is to conduct research that can be applied to enhance the effectiveness, efficiency, and quality of mental health and addiction services in British Columbia and beyond. CARMHA plays a key role in providing scientific insight to help decision makers shape the future direction of mental health and addiction services. Key Public Health programs faculty involved with CARMHA include Drs. Elliot Goldner, Julian Somers, Benedikt Fischer, and Denise Zabkiewicz.
- The **Children’s Health Policy Centre (CHPC)** is an interdisciplinary research group that focuses on integrating research and policy to improve children’s social and emotional wellbeing, or children’s

mental health. This work complements the mission of FHS to integrate research and policy for population and public health locally, nationally and globally. Key Public Health programs faculty involved in this initiative include Drs. Charlotte Waddell (PI) and Nicole Catherine.

- **The Centre for the Study of Gender Social Inequities and Mental Health** was a five-year effort funded by the Canadian Institutes for Health Research (CIHR), led by Dr. Marina Morrow that included other FHS researchers (Drs. Goldner, Halinka-Malcoe, Goldsmith and Somers) as well as researchers from other universities in Canada. The Centre engages in innovative research, knowledge exchange and training activities with researchers, community partners, people with lived experience of mental health and substance use issues who are committed to eliminating social inequities in mental health. The Centre worked to develop programs, policies, and interventions that will ultimately improve the mental health of men and women in Canada and the international community.
- **Canadian HIV Observational Cohort (CANOC) Collaborative Research Centre.** This CIHR-funded collaboration was established in Fall 2014 to conduct policy-relevant studies in HIV therapeutics, population and public health. The CANOC Centre brings together a diverse team from BC, Quebec, Ontario and Saskatchewan to capitalize on a unique and robust CANOC database of people on HIV/AIDS treatment in Canada for the purpose of improving health services and policy research. Public health programs faculty involved are Drs. Robert Hogg (PI), Bohdan Nosyk (coPI) and Charles Goldsmith (co-I).

Other Public Health research groups within FHS are:

- **BC Alliance of Telehealth Policy and Research (BCATPR).** Dr. Scott Lear, FHS Professor, is the Director of BCATPR, a joint partnership consisting of academic institutions and provincial health authorities committed to providing relevant evidence and capacity building for integration of sustainable telehealth care services into routine health care practices within British Columbia.
- **CAREX Canada** (an acronym for CARcinogen EXposure), is a multi-institution team of researchers that combines academic expertise and government resources to generate an evidence-based carcinogen surveillance program for Canada. CAREX Canada estimates the number of Canadians exposed to substances associated with cancer in workplace and community environments. Dr. Anne-Marie Nicol, FHS Assistant Professor, leads CAREX Canada and moved CAREX Canada to FHS in 2013.
- **Global Tobacco Control Project** is a 12-person multidisciplinary and multi-institutional research team, led by Dr. Kelley Lee (PI) in FHS, analyzing the strategies and activities of the tobacco industry in a globalizing world economy. Funded by the US National Cancer Institute since 2001, the team is examining how tobacco companies have adapted to globalization and, in turn, sought to shape the nature of globalization in Europe, Asia and Latin America.

### **Institutional Research Environment**

Research is a major portfolio within SFU, overseen by the Vice President, Research (Dr. Joy Johnson, Professor in FHS). The VPR serves as the most senior administrator of the university's research activities responsible for developing institutional strategic plans with broad consultation, and advocating for research

and policy development within the university and at both provincial and national levels. SFU supports world-class health research within the Faculty of Health Science's public health programs, as well as in many other departments across the university's seven other faculties. With over \$102 million (2012-13) in external research income, SFU continues to earn top spots in national and international rankings: in September 2014, the [QS World University Top 50 under 50 Universities rankings](#) saw SFU move up to 16th in the world and maintain its ranking in the top three in North America. Nationally, SFU was again ranked the top comprehensive university in Canada in 2014 by Macleans Magazine University Rankings, a ranking achieved 11 times in the last 24 years.

SFU is also one of Canada's top 50 research universities (Research Info Source Rankings 2014). Currently, SFU is home to [49 research centres and 26 research institutes](#) (which have a university-wide or are a multi-university consortium). SFU's research strengths and strategic priorities are set out in its [Academic Plan 2013-2018](#) (see Appendix 3.1.a.i). Health and Biomedical Sciences is one of SFU's priority themes; Population and Public Health and Health Services remains a research area subtheme that is central to SFU's research vision for the university's strategic growth and investment. (See Appendix 3.1.a.ii [Strategic Research Plan](#) 2010-2015).

The VPR portfolio is comprised of several support infrastructure units including: Office of Research Services, Major Projects Office, Office of Research Ethics, University/Industry Liaison Office, Animal Care Services, University Library, and Environmental Health and Safety Office. Collectively, these units ensure that SFU faculty members, including those in the Public Health programs of the FHS, have the information, support and infrastructure to obtain external research funding, to conduct diverse research that complies with the highest standards of academic/scientific regulations for research in all disciplines, and pursue collaborative inter- and intra-university partnerships that may optimize the social and economic benefits of the university's research.

- **Office of Research Services (ORS)** assists SFU faculty in pre-award administration (legal review and authorization of all research grants and contract agreements, liaising with national and international funding agencies, disseminating research funding opportunities and application procedures to all research faculty) and coordinates the data on, and reporting of, the university's research activities. Working in collaboration with ORS is a cadre of faculty-based grant facilitators – an expert group of staff who work with individual faculty to develop competitive funding applications.
- **Major Projects Office** staff work in close collaboration with faculty members, grant facilitators, and academic administrators to develop major institutional proposals for submission to competitions at the national and international level.
- **Office of Research Ethics (ORE)** ensures the highest level of ethical conduct for research involving human subjects occurs and that the guidelines outlined in the Tri-Council Policy Statement, Ethical Conduct for Research Involving Humans, (the TCPS) are followed for all research activities carried out at SFU.
- **University / Industry Liaison Office (UILO)** creates partnerships between researchers and industry in local and global markets by connecting new and established companies with the technologies and

resources of SFU. These strategic links generate new venture investment and long term economic benefits for the University, its industrial partners and the community. Core activities include technology management, commercialization, mentoring, collaboration and information provision and technology transfer.

- ***Animal Care Services*** is mandated to ensure that, as faculty conducts research, teaching, or testing involving animals, this occurs in the most humane and ethical manner possible, and the principles of replacement, reduction and refinement are invoked in every project to minimize the number of animals used in the research, teaching, and testing process.
- ***University Library*** serves as the foundation for research at the institution, featuring a storehouse of traditional collections and services and offering award-winning new technological innovations. The SFU Library is also home to the Student Learning Commons thus making it the “Hub of SFU Life”.
- ***Environmental Health and Safety Office*** strives to foster a safe working, research and study environment by infusing a consistent safety culture through its safety policies and programs and the promotion of a participatory approach in identifying, reporting and addressing safety hazards.

#### **Financial and Programmatic Support for Research at SFU**

In addition to the offices identified above that support faculty research, SFU also offers significant financial support for research. The following funding programs internal to SFU enable faculty members to commence their research careers and maintain them using state of the art research equipment, travel to national and international conferences to present their scholarship, and hire high quality personnel (HQP) to support and extend their inquiries. Programs of critical import to these aims are as follows:

- ***New Faculty Research Start Up Grants:*** Designed to provide new faculty members with the research infrastructure to launch or continue their careers at SFU, the New Faculty Start Up Grant is provided to all new tenure-track faculty members. The amount is negotiated between the faculty member and the Dean of Health Sciences in consideration of the particular area of research activity but a minimum of \$30,000 will be provided.
- ***SFU Endowed Research Fellowships and Conference Funding:*** Small internal grants (usually between \$1000-6000) can be applied for annually by faculty from the Vice President, Academic (VPA) to support research and knowledge dissemination activities.
- ***Mowfaghian Child Health Endowment Faculty and Student Awards:*** The annual income from this \$1 million endowment supports graduate students and faculty awards for child health research either in Canada or abroad.
- ***New Faculty Teaching Release:*** All new tenure track faculty members in the FHS receive two courses teaching release in their first year to enable them to set up their research programs.
- ***Research Protected Time with Salary Awards:*** Faculty members in FHS who are successful in applying for external salary awards are given commitments for research-protected time (75%) which

amounts to a reduced teaching load of 3 courses over 2 years, for the term of the salary award.

- **Research Semester Research Grant:** Faculty members may apply for a research grant to be paid during three of the four months of their research semester. The salary payable to the faculty member during those months will be reduced by the amount of the grant. (see Appendix 3.1.a.iv for a copy of the grant policy).
- **Study Leave (commonly referred to as Sabbaticals):** Academic Policy A31.02 provides tenured faculty with the opportunity to engage in a period of concentrated research activity free from the responsibilities of teaching. Study leave eligibility is determined on the basis of satisfactory performance review and the formulaic calculation of completed number of teaching semesters. Faculty members may choose from a variety of study leave options ranging from one semester to three semesters, with all or the majority of salary maintained during the period of study leave. (see Appendix 3.1.a.v for a copy of the study leave policy).
- **Study Leave Research Grants:** Under certain conditions, the program permits a researcher to receive a grant in lieu of salary. The purpose and objects of the expenditures proposed must be warranted in the context of the proposed research. The grant may be used for all the purposes of a grant-in-aid of research, but not to supplement income. (see Appendix 3.1.a.vi for a copy of this grant policy).
- **Vice President Research Program Administration Grant:** When a researcher has been successful in obtaining large-scale research funding but administrative costs are not allowed by the granting agency as part of the budget, the Office of the Vice President, Research provides financial assistance in the form of a VPR Program Administration Grant. Decisions on funding and funding levels are based on the number of research grants administered and the complexity of required transactions and cumulative dollar amounts of the grants. Such grants are made over the term of the large-scale external funding envelope, in one of two forms:
  - A grant of up to \$5,000 per annum as a salary offset for a research assistant, a portion of whose time is dedicated to administering research grants for the specific grantee.
  - A grant of up to \$5,000 per annum as a salary offset for an existing departmental staff member (or members), a portion of whose time is dedicated to administering research grants for the specific grantee.
- **Vice President Research Major Project Application Preparation Grants:** These grants are to assist SFU faculty members who are applying for major external research grants (such as Canada Foundation for Innovation, National Centres of Excellence, Social Sciences and Humanities Research Council, Canadian Institutes for Health Research, etc.) meet expenses associated with the preparation of applications. Assistance may take the form of support salaries for personnel needed to prepare application materials, costs of travel required to meet with research collaborators, long-distance telephone/fax charges, etc.
- **Vice President Research Bridging Grants:** Short term (1 year) internal grants from the university to researchers who submit high ranking open operating grant applications to CIHR, NSERC, and SSHRC

but are not funded by the agencies, and who have no other available funds to maintain their research program. Researchers may apply for bridge grants, and if approved, are to be used to strengthen a resubmitted application the following year. An FHS policy was adopted in 2012 to internally manage applications to this funding source where co-funding from the faculty is sought.

- **University Publications Fund:** This fund supports the costs of academic publications and supports publication activities such as, but not limited to, individual books or one-time scholarly projects which have been accepted for publication and require professional assistance. (see Appendix 3.1.a.ix).
- **Professional Development Expenses:** Each year faculty members in FHS may be reimbursed for professional development expenses that enable them to remain at the forefront of their disciplines. These activities may vary by discipline but may include the purchase of books, periodicals and subscriptions; memberships in learned societies and professional organizations; the purchase of equipment and intangibles associated therewith; travel expenses for study leave, conferences or other related activities and other expenses related to teaching, scholarship, and/or related academic activities. Expenses of up to \$1,910 per year are eligible for reimbursement under this fund. (see Appendix 3.1.a.x).

### **Institutional Research Policy Context**

The wide-ranging support services and resourcing vehicles outlined above are complemented by an extensive policy framework that encodes the standards for, performance expectations in, and administrative accomplishment of, research by faculty members. Table 3.1.a. – Research Policy Framework at SFU identifies the core policies governing research. A copy of each policy is provided as an Appendix to the self-study as identified in the Table below.

<b>Table 3.1.a. Research Policy Framework at SFU</b>			
<b>Policy Number</b>	<b>Policy Topic</b>	<b>Area of Coverage</b>	<b>Appendix Reference Number</b>
A30.01	Code of Faculty Ethics and Responsibilities	University expectations of faculty members as scholars, educators, and colleagues.	1.3.c.iii
A30.03	Tenure- Track Workload Policy	University expectations and procedures concerning the workload of tenure-track faculty. The policy also provides provision for the “buying out” of teaching from research grants, and provides for a time-limited research-intensive (or teaching-intensive) career path.	3.1.a.xi
A11.05	Criteria for Appointment, Contract Renewal, Tenure, Promotion,	University standards and expectations for performance by rank for each of the three areas of research, teaching and service. This policy also establishes the requirement of each academic unit to establish its own	3.1.a.xii

<b>Table 3.1.a. Research Policy Framework at SFU</b>			
<b>Policy Number</b>	<b>Policy Topic</b>	<b>Area of Coverage</b>	<b>Appendix Reference Number</b>
	and Salary Review	discipline specific criteria and standards.	
A31.02	Study Leave	Criteria for study leave eligibility and the process for approval. The purpose of Study Leave is to provide faculty members with an extended period of time uninterrupted by teaching or service responsibilities during which they will enhance and increase their knowledge of and expertise in their disciplines so as to enhance their abilities as scholars and teachers.	3.1.a.v
A31.04	Faculty Exchanges	Identifies procedures to bring specific expertise into the university for a short period while simultaneously providing the SFU faculty member with an opportunity to develop research collaborations, partnerships and experience in another institution for the advancement of scholarship.	3.1.a.xiii
R10.01	External Research Grants and Contracts	Governance for the administration of research performed using University facilities or resources, where such research requires external financial support	3.1.a.xiv
R10.02	Research Semester Research Grants	Faculty members may apply to the President's Research Grant Committee for a research grant to be paid during three of the four months of their research semester.	3.1.a.xv
R10.03	Study Leave Research Grant	A faculty member who expects to incur certain expenditures while on a study leave may be eligible for this program. Under certain conditions, the program permits a researcher to receive a grant in lieu of salary. The grant may be used for all the purposes of a grant-in-aid of research, but not to supplement income. This program covers only research activities and is not intended to cover projects directed at teaching or the development of teaching-related skills.	3.1.a.vi
R20.01	Ethics Review of Research Involving	Identifies mechanisms for ethics review of research involving human subjects to protect those subjects, researchers, support staff, students, and third parties,	3.1.a.xvi

<b>Table 3.1.a. Research Policy Framework at SFU</b>			
<b>Policy Number</b>	<b>Policy Topic</b>	<b>Area of Coverage</b>	<b>Appendix Reference Number</b>
	Human Subjects	and to educate those involved in this type of research	
R20.02	Biosafety Policy	Ensures the safety of students, faculty, staff, the community and the environment when using biohazardous materials under the auspices of SFU, and to facilitate research, teaching and testing in compliance with the applicable regulations and standards	3.1.a.xvii
R20.03	Treatment of Animals in Research	Ensures the ethical and humane treatment and handling of all animals used in teaching and research under the auspices of SFU and to facilitate research and teaching projects with animals in compliance with the guidelines and policies of the CCAC and SFU.	3.1.a.xviii
R20.04	Radiological Safety	Establishes the terms of reference, policies and procedures concerning the safe receiving, storage, handling and disposal of Radiological Materials in accordance to all relevant standards, including Canadian Nuclear Safety Commission (CNSC) guidelines and regulations and other SFU policies and procedures.	3.1.a.xix
R20.05	Non-Ionizing Radiation Safety	Establishes terms of reference for the installation, operation and maintenance of equipment emitting NIR.	3.1.a.xx
R30.03	Intellectual Property Policy	Provides understanding, safeguards, and a framework for dissemination of intellectual development and innovation, including the provision for patents and copyright	3.1.a.xxi
R40.01	Centres and Institutes	Identifies the scope, purpose and process for establishing a Centre or institute to achieve a specific purpose of the following nature: facilitate collaborative research, especially multi-disciplinary research; to undertake specific types of teaching or training programs; to facilitate multi-university initiatives, such as centres of excellence; and to provide specific types	3.1.a.xxii

<b>Table 3.1.a. Research Policy Framework at SFU</b>			
<b>Policy Number</b>	<b>Policy Topic</b>	<b>Area of Coverage</b>	<b>Appendix Reference Number</b>
		of services to the community	
R50.01	University Research Associates	Appointment policy and procedures for employing long-standing research-dedicated members of the complement	3.1.a.xxiii
R50.02	Personnel Funded from Research Grants	Appointment policy and procedures for hiring personnel from research grant funding	3.1.a.xxiv
R50.03	Postdoctoral Fellows policy	Personnel hiring policy for the appointment of post-doctoral fellows	3.1.a.xxv
R60.01	Integrity in Research and Misconduct in Research	Identifies the principles of Research Integrity and identifies the definition of “misconduct in research, and the process for investigating allegations of misconduct.	3.1.a.xxvi

Since 2009, the FHS has adopted the following additional policies pertaining to research conducted within the FHS community:

**1. Internal Review Policy of funding applications**

**Summary:** *Voluntary peer review of grant applications:* Adopted in 2013, FHS encourages all researchers, who wish to do so, to invite internal peer review of their grant applications to any funding body. This process should be undertaken prior to submission, in order to strengthen the application or, when proposals are not funded, for resubmission purposes.

*Internal peer review to determine eligibility for bridging funds (CIHR/SSHRC/NSERC only):* FHS requires all applications for SFU Office of the Vice President Research bridging funds, in some cases matched by FHS funds, to undergo internal peer review for applications to Canadian Tri-Council funding bodies before submission.

**2. FHS Salary Awards policies [for research protected time]**

**Summary:** Adopted in 2012, this policy specifies FHS’ process for how salary awards (Canada Research Chairs, CIHR New Investigator Awards, MSFHR Career Investigator Awards, and others) are administered, including incentive honoraria, the assessment of teaching buyout and loads, applying for other types of salary recoveries, etc.

### 3. **FHS Principles for Allocation of Work Space**

**Summary:** Adopted in 2014, this policy sets out the principles for allocation of space for faculty, staff, students, research personnel, additional teaching personnel and visitors in FHS building space. The policy includes principles regarding how space will be allocated for research purposes, both wet and dry laboratory work stations. The policy seeks to co-locate research groups and types of researchers (e.g. graduate students) together to provide an optimal work environment.

### 4. **FHS Awards Committee Terms of Reference**

**Summary:** Adopted in 2013, this policy sets out the terms of reference for adjudication responsibility for the many internal awards offered by FHS to students and faculty. The responsibilities are allocated to the Undergraduate Studies Committee, Graduate Studies Committee and Faculty Awards Committee.

### **Expectations for Research for Public Health Program Faculty**

The overarching expectations and demands for research quality and performance of faculty members within the Public Health programs of FHS at SFU are encoded in the standards and criterion for faculty performance evaluation as required by University policy.

SFU requires that faculty members meet minimum standards of rank-based accomplishment. According to academic policy A11.05, article 2.3, all faculty members are expected to achieve and to be evaluated by the strategies outlined within policy. See Appendix 3.1.a.xii.

The FHS is required by University policy to establish discipline specific standards and criteria for contract renewal, tenure and promotion. **A copy of the standards and criteria for FHS is included as Appendix 3.1.a.xxvii.** Identifying discipline-specific standards and criteria is particularly difficult in FHS given the disciplinary breadth of the Public Health programs and the wide range of disciplines represented among the members of the faculty complement. Further, criteria and standards for traditional academic contributions must be broadened for the community-based research contributions that are expected of faculty members within the Public Health programs. The complexity of these dimensions can lead to a level of generalization of standards and criteria that substantially detracts from the purposes and goals of articulated standards and criteria. Additionally, the standards and criteria must help the Faculty achieve its mission, goals, and objectives, and provide clear direction to new members of the faculty complement as to what is expected of them in helping the Faculty reach its collective aspirations.

Criteria for research contribution and achievement identified for and by the FHS used by its TPC is included as **Appendix 3.1.a.xxvii**:

Assessment of research and community based scholarship for the purposes of rank progression, tenure and contract renewal takes into consideration both the quality and quantity of research, although greater emphasis is placed on the quality of the research. There is also an expectation for independent and/or collaborative research as per the norms of the discipline. Premised upon this overarching assessment framework are rank-based expectations and evidentiary requirements

The **FHS Standards and Criteria for contract renewal, tenure and promotion** document provide a clear and articulated set of expectations and evidentiary requirements that guide faculty members and evaluation committees and ensure that the high standards of research excellence within the Public Health programs, the FHS, and the University as a whole are upheld.

### **Community-Based Research Activity**

**3.1.b** A description of current community-based research activities and/or those undertaken in collaboration with health agencies and community-based organizations. Formal research agreements with such agencies should be identified.

FHS and its Public Health programs are located in a region with a thriving complement of public health agencies, regional health authorities, community-based organizations, and nationally and globally interconnected health collaborations. This provides for a rich context in which to establish and pursue community-based research activities and collaborations with the external public health community.

Public Health program faculty members have conducted collaborative research with many of these organizations. These collaborations have included program evaluation, community-based needs assessments, and theory-informed capacity-building. Most community-based research both by faculty members and through student practicum placements are of an informal or independent contractual nature and are not Program-wide collaborations.

There are several exceptions to this in the form of formal research agreements.

### **Current Research Activity by Faculty Members**

**3.1.c** A list of current research activity of all primary and secondary faculty identified in 4.1.a and 4.1.b., including amount and source of funds, for each of the last three years.

See **Appendix 3.1.c.i for Table 3.1.c. - Research Activity of Primary and Secondary Faculty** for a listing of funded research activity for Public Health program faculty for each of the last three years.

Note that Table 3.1.c captures only the research activity where FHS faculty are the principal investigators and where funding is held and administered by SFU. SFU and FHS does not systematically track the participation of faculty as Co-Investigators in grants held and administered by other institutions, unless such grants redirect funds as subcontracts to SFU. Consequently, the level of research activity done by faculty is likely to be an underestimate to what is captured in Table 3.1.c.

## Research Evaluation

3.1.d Identification of measures by which the program may evaluate the success of its research activities, along with data regarding the program's performance against those measures for each of the last three years. For example, programs may track dollar amounts of research funding, significance of findings (e.g. citation references), extent of research translation (e.g. adoption by policy or statute), dissemination (e.g. Publications in peer-reviewed publications, presentations at professional meetings), and other indicators.

FHS identified the following outcome measures for the evaluation of faculty research.

<b>Outcome Measure</b>	<b>Target</b>	<b>2011/12</b>	<b>2012/13</b>	<b>2013/14</b>
Proportion of tenure-track faculty currently with external research funding	75%	91%	94%	89%
Proportion of tenure-track faculty engaged in community-based research	50%	62%	61%	62%
Proportion of tenure-track faculty producing peer-reviewed publications	100%	100%	94%	91%
Proportion of tenure-track faculty presenting research in <u>national or international</u> conferences/professional meetings annually	100%	84%	82%	66%
Proportion of faculty serving on research review committees, editorial boards, or other distinguished roles premised on their reputation as scholars annually	50%	60%	72%	79%
Proportion of tenure-track faculty who participate on advisory boards, committees, consultation processes, within the Canadian public health community and the public health policy arena	50%	58%	61%	62%
Proportion of Graduate Students participating in research programs of the Public Health programs <sup>a</sup>	10%	7%	9%	8.4%

<sup>a</sup>as measured by students with research assistantships

## Student Involvement in Research

### 3.1.e A description of student involvement in research.

As indicated in Table 3.1.c., faculty regularly involves students in grant-funded research projects. Graduate students have been, or are involved in, 69% of the projects identified in Table 3.1.c. Similarly, 40% of the projects have engaged undergraduate students. Many MPH students are also given the opportunity to participate in applied research projects as part of their Practicum experience.

As noted the proportion of MPH students participating (students hired as research assistants) in research programs is below 10% over the three years of reporting. This is because these opportunities are research for our MSc and PhD students to support their learning goals and financial needs. Research experience for MPH students occurs through practicum placements and embedded learning experiences within course work. This is felt to be adequate given the professional practice orientation of the MPH degree. MPH students with interests in research careers are encouraged to take up the thesis option. In this case, these students are given priority with respect to research assist opportunities.

A list of student thesis and research projects activities are identified previously in the self-study document under Criterion 2.5.a, tables 2.5.a.i and 2.5.a.ii.

In addition to thesis/project activities, students enrolled in the Master of Public Health are also exposed to class embedded, research learning experiences. HSCI 803 (Qualitative and Survey Research Methods) is a dedicated course for these activities. MPH students are also actively involved in research through positions as graduate research assistants. In this role, students directly contribute to, and collaborate with, faculty members on their research agendas. Over the past three years, 60-69% of faculty with funded research projects has employed students (69% in AY 2006/7, 60% each in 2007/8 and 2008/9).

FHS also developed research-intensive graduate programs MSc (created in 2009) and PhD (created in 2011) for those seeking advanced scientific training in population and public health research.

Undergraduate students enrolled in the BA in Health Sciences and BSc in Health Sciences within FHS are exposed to the research environment through a number of techniques. These include class-embedded research work, honors thesis research, participation on research grants, and directed research courses. Examples of class-embedded research at the undergraduate level include: HSC 307 (Research Methods in Health Sciences), HSCI 410 (Exploratory Data Analysis), 424 (Strategic Applications of GIS in Health), HSCI440 (Cell Pathophysiology Laboratory), 441 (Virology Laboratory), 442 (Immunology Laboratory), 443 (Molecular Toxicology Laboratory), and HSCI 489 (Directed Research). While clearly not research engagement in the full sense, these course-embedded research activities teach students diverse research processes, techniques, and methodologies and ways to document, report, share and apply research findings in public health and scientific settings. Work-study and co-op are other programs that undergraduate students may be exposed to research activities and opportunities, typically employed by faculty on their grant funded research projects. SFU's VPR also sponsors undergraduate research by providing funding (to be matched by departments or faculty) for undergraduate student research awards to fund 16 weeks of fulltime research for highly qualified undergraduate students.

FHS has also established Population Health Lab Research Assistantships (supported by the Merck Canada Aboriginal Youth in Health Sciences Fund) which give Aboriginal students the opportunity to be mentored while pursuing population and public health -related degrees at SFU. These assistantships are targeted to students who have completed the Aboriginal Pre-Health Bridge Program at SFU Surrey, although any

Aboriginal undergraduate at SFU interested in a career in population and public health is encouraged to apply.

The Public Health programs of FHS are strongly committed to exposing students to research opportunities. One source of cutting edge research exposure is the opportunity for students to attend research conferences, symposiums or workshops. Students are regularly emailed of all upcoming research opportunities of this nature. The following two tables – Table 3.1.e.i and Table 3.1.e.ii provide an example of the conferences and workshops that are brought to the attention of students in the past year.

<b>Table 3.1.e.i. Current Posting of Conference Opportunities</b>	
<b>Conference title</b>	<b>Sponsor(s)</b>
Social Innovation Workshop – October 2014	Community Action Initiative, Vancouver Foundation, City of Vancouver, First Nations Health Authority, and Vancouver Coastal Health Authority
Towards a Sanctuary City – Oct 23, 2014	SFPIRG
TEDMed 2014 - Sept 10, 2014	TEDMED
Hepatitis C Education Prevention Society and SFU “DEAL WITH IT” – Oct 1, 2014 6:30pm – 9:00pm	HepCBC
Vancouver Autophagy Symposium 2014 – Sept 29, 2014 Thematic sessions will include	CIHR Team in Autophagy
Second International Conference: Where’s the Patient’s Voice in Health Professional Education 10 Years On? Nov 12-14, 2014 Vancouver BC	University of British Columbia, Interprofessional Continuing Education
Claiming Full Citizenship: Self Determination , Personalization and Individualized Funding 2015 International Conference Oct 15 – 17, 2014	University of British Columbia, Interprofessional Continuing Education
2014 Partnerships for Environmental Public Health (PEPH) Meeting: Communication Research in Environmental Health Sciences: Environmental Health Literacy. Sept 22 – 24. 2014, NIEHS Research Triangle Park, NC	PEPH
5 day Molecular Biology Workshop 2014 - UBC	Michael Smith Labs and Advance Molecular Biology Lab
Building Capacity in Mental Health During challenging Economic Times – July 4, 2014 – Vancouver BC	Pacific Rim College of Psychiatrists 2014 Conference
BCCDC Public Health Grand rounds: Angel Yao presents “A spatially resolved forest fire smoke model for public health surveillance and epidemiologic research” June 17, 2014	BC Centre for Disease Control
IHSPR Policy Rounds – Knowledge Translation Tools: Evidence-Informed Healthcare Renewal Portal - Hear from researchers, funders and knowledge users about how this resource is changing the landscape of knowledge translation	IHSPR – Institute of health Services and Policy Research

<b>Table 3.1.e.i. Current Posting of Conference Opportunities</b>	
<b>Conference title</b>	<b>Sponsor(s)</b>
and policy development across the country. – June 19, 2014	
4 <sup>th</sup> Health and Wellbeing in Children, Youth, and Adults with Developmental Disabilities Conference Oct 23-24, 2014. Vancouver BC	University of British Columbia, Interprofessional Continuing Education
Evolutionary Arguments and the Developmental Origins of Disease: Impact on Science and Policy – Professor Sir Peter Gluckman – June 4, 2014 8pm Vancouver BC	SFU - Human Evolutionary Studies Program
2 <sup>nd</sup> Annual Conference of the Canadian National Perinatal Research Meeting – Feb 24 – 27, 2015 – Quebec	Canadian National Perinatal Research
IHSPR Policy Rounds: Performance Anxiety: Can Performance measurement and reporting help improve Canadian healthcare? – May 28, 2014	IHSPR – Institute of Health Services and Policy Research
Evolutionary Aspects of Child Development and Health Workshop – June 3 – 5, 2014 – Vancouver BC	SFU - Human Evolutionary Studies Program
IHSPR Policy rounds – Pharmacare in Canada: Lessons learned from abroad & Implications for the Canadian healthcare system – May 6, 2014	IHSPR – Institute of Health Services and Policy Research
Genome BC Research Exchange & Poster Competition 2014 – May 9, 2014 Vancouver BC	Genome BC
Panel discussion about vaccinations in BC – April 28, 2014 Vancouver, BC	The Science Policy Congress
BCCDC Public health Grand Rounds: dr. Mark Gilbert presents “Acute HIV: how a laboratory test leads to improved clinical care and HIV prevention for gay and bisexual men in Vancouver” April 22, 2014 – Vancouver BC	BCCDC
First International Conference of Intersectionality – Intersectionality Research, Policy and Practice: Influences, Interrogations and Innovations. – April 24 – 26, 2014	Institute for Intersectionality Research, and Policy
International Health Data Linkage Conference - April 26 – 27, 2014 Vancouver BC	IHDL
BCCDC Grand Rounds: Dr. Robert Platt “Causal inference using marginal structural models: an overview and some challenges” April 28, 2014 – Vancouver BC	BCCDC
Priorities Conference 2014 – November 10 – 12, 2014 Australia. Biennial conference of the International Society on Priorities in Health Care – formed in 1996 to strengthen the theory and practice of priority setting in health care.	ISPHC
CIHR IHSPR Policy Rounds – Improving Care for People with Multiple Chronic Health Conditions – March 26, 2014 – Vancouver BC	IHSPR

<b>Table 3.1.e.i. Current Posting of Conference Opportunities</b>	
<b>Conference title</b>	<b>Sponsor(s)</b>
“Today’s Children & Youth, Tomorrow’s Families” 2014 Youth and Family Consensus Conference – May 2-3, 2014, Vancouver BC	University of British Columbia, Interprofessional Continuing Education
2014 Rural Health Services Research Conference – “Building Intersections for Vibrant Rural Communities: Research on Health, Wellness, and Place.” April 10-11, 2014 – Kelowna BC	Rural Health Services
2014 Health Issues Lecture: “Tobacco and the Environment: A New Fight on our Hands” speaker Dr. Thomas Novotny – Vancouver BC	Dr. Cam Coady Foundation and FHS
5 <sup>th</sup> Annual CUGH Conference – University 2.0: Advancing Global health in the Post – MDG Era – May 10 – 12, 2014	Consortium of Universities for Global Health (CUGH)
United Nations Association in Canada – Networking Breakfast – March 14, 2014 – Think Global	United Nations Association in Canada
Global Health & Innovation Conference at Yale : The Global Health Conference is the world’s largest global health conference and social entrepreneurship conference. – April 12-13, 2014	Global Health & Innovation Conference
Global Health University with host a “Careers in Global Health: Advice From the Experts” webinar – Feb 26, 2014	Global Health University
“Healthy Mothers and Health Babies” – Feb 21-22, 2014 Vancouver BC	Perinatal Services BC
“Canada’s Applied Research in Cancer Control Conference” May 12, 2014 – Toronto Ontario	Arthritis Research Centre Canada
“Moving Forward, Creating Culturally Safe Organizations” March 24 – 26, 2014 on Coast Salish territory in Vancouver	Provincial Health Services Authority Aboriginal Health team with the regional health authorities.
11 <sup>th</sup> Annual Western Regional International Health Conference – April 4 – 6, 2014 Seattle Washington	University of Washington, Department of Global Health
Canada’s Applied Research in Cancer Control Conference – May 12, 2014 Toronto Ontario	ARCC Toronto
Engage: Heart + Lung Fest 2014, Scientific Symposium Feb 6, 2014 – Vancouver BC	Heart + Lung
1 <sup>st</sup> Annual Public Health and Global Health Symposium Feb 1, 2014 – Vancouver	UBC School of Population and Public Health
6 <sup>th</sup> Annual Canadian Students for Sensible Drug Policy National Conference: Riding the Current Evidence November 22 – 24, 2013 SFU Vancouver Campus	Canadian Drug Policy Coalition and the Canadian Harm Reduction Network + SFU
SFU FHS Student – led conferences Jan 25 – 26, 2014 SFU Burnaby campus	FHS

<b>Table 3.1.e.i. Current Posting of Conference Opportunities</b>	
<b>Conference title</b>	<b>Sponsor(s)</b>
2 <sup>nd</sup> Annual British Columbia Global health Student Forum Sept 28, 2013 UBC Vancouver	Canadian Coalition for Global health Research, Liu Institute for Global Issues

<b>Table 3.1.eii Current Posting of Workshop Opportunities</b>	
<b>Workshop title</b>	<b>Sponsor(s)</b>
BC Alliance on TeleHealth Policy and Research (BCATPR) TeleHealth Workshop – May 26, 2014	BC Alliance on Telehealth Policy and Research
Diabetes Educator Course – May 5 – 7, 2014 Winnipeg	University of British Columbia, Interprofessional Continuing Education
Bringing Citizen Voices to the Table: Infrastructure Needs in Democracy – A case study from the recent National Dialogue on Mental Health in the United States. May 22, 2014 – Vancouver BC	SFU
Evolutionary Aspect of Child Development and Health Workshop – June 3 – 5, 2014 – Vancouver BC	SFU - Human Evolutionary Studies Program
University of Toronto’s Ethno-Cultural Care and Older Adults Online Workshop – March 28 – April 24, 2014	University of Toronto – Institute for Life Course & Aging
Mathematics and HIV Workshop – March 29-30, 2014	Impact HIV
Thesis Boot Camp: SFU Vancouver and Burnaby campus Spring 2014 Presentation skills, NVivo, researching and writing a literature review, obtaining ethics approval, strategies for completing your thesis and more	SFU
Supreme Court Showdown: For-profit Clinics vs. Medicare Jan 22, 2014 = University of BC	School of Population and Public Health

## Criterion Assessment

### 3.1.f Assessment of the extent to which this criterion is met.

#### *Strengths*

- After its first ten years, FHS is now a well balanced mix of senior, middle career and early career scholars. This is accompanied by increasing collaboration across faculty members and disciplines in recent years on grant proposals and publications. Now a decade old, the FHS research portfolio is demonstrating a degree of maturity in terms of funding levels, collaborations and range of outputs.

- Faculty hold a number of prestigious research chairs which is a reflection of a high level of research productivity and quality. FHS holds 4/30 of the Canada Research Chairs (CRC) of SFU consisting of one Tier 1 (Jamie Scott) and three Tier 2 (Mark Brockman, Angela Kaida, Charlotte Waddell) chairs, all of whom focus a majority of their time on research activities. A new nomination for Tier 1 CRC in Global Health (Kelley Lee) is underway for 2015. In addition, there are several externally funded chairs including Maureen and Milan Ilich/Merck Chair in Statistics for Arthritis and Musculoskeletal Diseases; Pfizer/Heart and Stroke Foundation Chair in Cardiovascular Prevention Research at St. Paul's Hospital; Leslie Diamond Chair in Cancer Survivorship Research; and BC-CfE/St. Paul's Hospital Foundation Chair in HIV/AIDS Research. A new endowed chair in Biostatistics is currently being recruited.
- Researchers within FHS have been recognized by a number of prestigious awards for their work. Six faculty hold salary awards from the Michael Smith Foundation for Health Research, and three additional faculty hold CIHR New Investigator Awards, which gives them 75% protected time for research for 5-7 years. Dr. Susan Erikson was awarded the Virchow Prize by the Society of Medical Anthropology in 2013; Dr. Elliot Goldner was given the Alex Leighton Award in Psychiatric Epidemiology by the Canadian Psychiatric Association in 2014; Dr. Robert Hogg received the Paz Buttedahl Career Achievement Award in 2013. Dr. Lawrence McCandless was runner-up for the Kenneth Rothman Award for paper of the year by the editors of Epidemiology in 2014; and Dean O'Neil and Dr. Kelley Lee have been elected to the Canadian Academy of Health Sciences.
- SFU was ranked #1 in Canada by Maclean's magazine for health research in 2013 among comprehensive universities, one measure that has contributed strongly to the university's overall ranking as the #1 comprehensive university in Canada. A number of individual faculty members (e.g. Hogg, Lee, Fischer) hold high scores on various research indices such as RG score, H-index and i10-index.
- FHS now has over 50 adjunct professors, from the academic and practitioner communities, who collaborate on a diverse range of research, provide valuable community-based student practicums and research opportunities.
- Since 2011 FHS has led the organization of two university-wide research events. SFU Health Research Day is a biennial event that brings together researchers, graduate students and senior practitioners together to share information and build collaborations on health research across disciplines. The SFU-Fraser Health Authority Research Pitching Day is a biennial event that brings together SFU health researchers and graduate students, with practitioners and policymakers, seeking to build collaborations across the research-policy divide. Participants pitch their ideas in a "Dragon's Den" or "match making" format and follow up support for collaborations is provided.

### *Weaknesses*

- While the FHS has grown to around 40 tenure track faculty, the multidisciplinary nature of the cell to society approach means that public health research has been more concentrated in selected areas than a larger faculty. The particular research strengths of FHS are mental health, aboriginal health, addictions, health economics, HIV/AIDS, child health and environmental health. As FHS continue to grow, deeper expertise in other research areas will be achieved such as health care systems, infectious disease control and health promotion.
- Existing SFU data systems offer limited capacity to produce detailed metrics for assessing research activities over time beyond total research income per faculty. FHS has begun to create its own system of collecting and reporting research inputs and outputs annually.

- The number of postdoctoral fellows within FHS has now grown to around a dozen. Working with Graduate Studies, FHS is seeking to provide more support to their career advancement in the form of special training, mentorship and research resources.

***Plans***

- As FHS continue to grow, and the Surrey expansion is confirmed, deeper expertise in other research areas will be achieved such as health care systems, infectious disease control and health promotion.
- FHS has begun to create its own system of collecting and reporting research inputs and outputs annually.
- Working with SFU Graduate Studies, FHS is seeking to provide more support to training and career advancement in the form of special workshops, mentorship and research resources. The newly created role of the FHS Director of Graduate Studies has the mandate to support postdoctoral fellows specifically.

***This Criterion is met.***



## CRITERION 3.2 – SERVICE

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**The program shall pursue active service activities, consistent with its mission, through which faculty and students contribute to the advancement of public health practice.**

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### Service activities

#### 3.2.a A description of the program’s service activities, including policies, procedures and practices that support service.

SFU has a long-standing and entrenched commitment to serving its external communities. From the very founding documents of the University to its current Statement of Values and Commitments to its structural presence in communities around the lower mainland and its innovative outreach programming across the province, service is a critical underpinning of the SFU ethos.

In some cases, and certainly for the Public Health programs faculty, staff and students, service is a cornerstone of the overall curricular teachings and partnership model of engagement. In part because of this integration, there are no formal programs to structure service provision.

#### 3.2.b A description of emphasis given to community and professional service activities in the promotion and tenure process.

At the policy level, both the FHS and the university’s contract renewal, tenure, promotion and salary review policies explicitly demand evidence of meaningful service. All tenure track faculty are required to demonstrate annually active service contributions to the University, their profession, and to the external community at large.

Service to the community is a fundamental requirement of all faculty members at SFU – both those in tenure-track positions and those holding teaching appointments. All activities must be reported on an annual basis and are taken into consideration in determining salary and rank advancement.

University Academic Policy A11.05 (Appendix 3.1.a.xii) specifically identifies the expectations of faculty members to serve their communities. Article 2.4, as quoted below, reveals these expectations.

#### ***2.4 General Contributions to the University and to Society***

*It is expected that each faculty member will be an active participant in the collegial governance of the University. The faculty member's contributions to all levels of the administration of the University should be considered. Account should also be taken of the faculty member's contributions in initiating and participating in seminars, public lectures or similar activities on campus, and of the stimulation and help he/she may afford to other faculty members of the*

*University. Included in this category are the public service contributions, which faculty members may make. There should, however, be a strong focus on the academic content of the contribution by the faculty member in this category.*

This is supported by rank specific expectations for service contribution as follows:

- Assistant Professors – must demonstrate a willingness to play an active role in the University
- Associate Professors – must demonstrate service to the University and the community
- Professors – must demonstrate service to the University and the community
- Tenure – must demonstrate that candidate has become a responsible and contributing member of the University/academic community

Moreover, expectations for service contribution are embedded within the University Workload Policy (A30.03):

SFU faculty have **three primary responsibilities**: research, teaching and **service**.

1. **Research** responsibilities require faculty to maintain a program of research, scholarship or artistic creativity through which they should aspire to a national or international reputation as scholars and promotion to the rank of Professor.
2. **Teaching** responsibilities require faculty to achieve at least a satisfactory standard of instructional competence, to share equitably the annual instructional responsibilities of their departments/programs/schools, to contribute to their department's/program's/school's curriculum diversity and richness, and to foster their students' critical and creative abilities.
3. **Service** refers to the annual contributions that faculty make to university governance, to their profession, to the development of their discipline nationally, internationally or locally, and to the furthering of good relations between the University and the local community.

The University's expectation is that a normal annual Faculty workload will include contributions from all three areas of activity. Research and teaching will take precedence. **Nevertheless, all faculty members shall carry their share of service work and achieve an appropriate balance among all three areas of activity.**

As is reported under criterion 3.2.b below, Public Health programs faculty members report a very active and diverse record of service to their profession and to the external public health community both locally and internationally.

## Current Service Activities

### 3.2.c A list of the program’s current service activities, including identification of the community groups and nature of the activity, over the last three years.

As was identified under Criterion 1.5.d, faculty members in the Public Health programs have an extensive record of service within SFU given the unique and pervasive approach to shared collegial governance operating at the university. Table 3.2.1 in Appendix 3.1.a.xxviii identifies the service to external community activities of faculty members over the past three years. Community service contributions through media outlet, public presentations, or conference presentations are not captured in this table, although they can be found in the individual curriculum vitas of faculty members provided as Resource file item 3.2.

## Service Evaluation

### 3.2.d Identification of the measures by which the program may evaluate the success of its service efforts, along with data regarding the program’s performance against those measures for each of the last three years.

Stemming from its original goals and objectives articulated in Chapter 1 of this self-study document, FHS has as one of its major overarching goals a commitment to ensuring that its Public Health programs are relevant to community constituents, stakeholders, and public health authorities. A core component of achieving this commitment is to engage in meaningful service activities in, and with, these communities.

***GOAL 4: Assure that the program is relevant to community constituents, stakeholders, and public health authorities.***

*Objective 4c: Increase the engagement and involvement of faculty, staff, and students in public health practice and policy in the community*

While engagement in the community is a mission derived critical objective for the Public Health programs it was not until the CEPH Self Study exercise that the ways in which monitoring and assessment of this objective were reviewed. It has been determined that in several areas there are important outcomes measures and targets that need to be collected to provide the Public Health programs with the knowledge and understanding necessary to effectively engage in continuous quality improvement of the Public Health programs at SFU.

<b>Outcome Measure</b>	<b>Target</b>	<b>2011/12</b>	<b>2012/13</b>	<b>2013/14</b>
Proportion of faculty who will assume at least one leadership role in local, provincial, or national professional organizations that aim	60%	37%	42%	49%

<b>Table 3.2.d. Service Outcome Measures, Targets and 3 Year Data</b>				
<b>Outcome Measure</b>	<b>Target</b>	<b>2011/12</b>	<b>2012/13</b>	<b>2013/14</b>
to preserve or promote the principles and the field of community health education				
Proportion of faculty who will assume at least one leadership role in <b>international</b> professional organizations that aim to preserve or promote the principles and the field of community health education	60%	19%	23%	33%
Proportion of faculty who will participate annually in one research collaboration, consultation, and/or other health education-related activity with local, provincial, or national community organizations, and initiatives	60%	53%	65%	74%
Proportion of faculty who will participate annually in one research collaboration, consultation, and/or other health education-related activity with <b>international</b> community organizations and initiatives	60%	35%	40%	42%
Proportion of faculty who will engage annually in at least one public outreach initiative to increase knowledge of public health issues in society	60%	35%	51%	53%

### **Student Service Activities**

#### **3.2.e A description of student involvement in service.**

FHS Public Health programs do not yet have any specific formal structured opportunities for students to engage in service activities within the public health community. Apart from community engagement through student practicum placements, some of which have strong service components, the primary organizer of community service events is through the FHS graduate and undergraduate student caucuses.

Several examples of these caucus student activities are shown in Table 3.2.d below.

<b>Table 3.2.e FHS Student Community Service Activities 2011 to 2015</b>			
<b>Semester</b>	<b>Event/Project</b>	<b>Description</b>	<b>Graduate/Undergraduate Student Organization</b>
<b>2013/2014</b>			
Spring 2015	Interactive Ebola Seminar	<u>Graduate Student</u> caucus in partnership with Ustawi Health Research Association hosted forum to discuss Ebola outbreak in West Africa_	G
Spring 2015	Annual SFU Health Sciences Gala	An end-of-semester celebration for members of the FHS community – students, alumni, faculty and staff.	UG
Spring 2015	Vancouver Sun Run	<u>Graduate</u> students participated in Vancouver Sun Run to raise funds for local charities.	G
Fall 2015	Angel Tree Program for Vancouver Women's Rape Relief	FHS <u>undergrad caucus</u> set up an Angel Tree to receive donations and gifts for vulnerable women and their families through Vancouver Rape Relief.	UG
Summer 2014	ScienceAL!VE summer camp	<u>Undergraduate students</u> in partnership with ScienceAL!VE Nebula girls summer camp to deliver hands-on laboratory experience to girls aged 9 - 12 years.	UG
Spring 2014	Knowledge into Action (KiA) conference	<u>Graduate Student</u> -led conference to improve public health knowledge translation and exchange.	G
Fall 2013	Under-There Affair	Event organized by <u>undergrad</u> caucus to raise funds to the BC Cancer Foundation for “Cancers below the belt.”	UG
Fall 2013	FHS students advocate 'Toilets for All'	Presentation of a public policy resolution to make public toilet provision a provincially-mandated municipal responsibility at the New Democrat Party bi-annual provincial convention in Vancouver, BC.	G
Fall 2013	Angel Tree Program for Vancouver Women's Rape Relief	FHS <u>undergrad caucus</u> set up an Angel Tree to receive donations and gifts for vulnerable women and their families through Vancouver Rape Relief.	UG
<b>2012/2013</b>			
Summer	FHS students	Partnership with ScienceAL!VE summer	UG

2013	bring health technology to camp	technology camps to host interactive HIV phylogenetics workshop for 22 campers aged 9-12 years.	
Summer 2013	2013 PMC Science Fair 5k Run and 1K Mini Run	FHS students participated in this event which was in support of science education. Proceeds from the event went to the Dr. Michael Smith Science Fair Endowment to support promotion and development of Science Fair programs.	UG
Fall 2013	"What the Butt?"	FHS students targeted three areas of SFU Burnaby campus for a tobacco waste clean-up crusade. Cigarette butts were collected and later displayed to raise awareness on harmful effects of tobacco waste on the environment and our health.	G and UG
<b>2011/2012</b>			
Summer 2012	Better Alternatives for Girls' Survival (BAGS)	Initiative to support survivors of human trafficking working at Destiny Reflection in Kolkata, India.	UG
Spring 2012	Girls in Science - DNA and Crime Science Lab Experience	FHS students created an interactive module under the supervision of Dr. Zabrina Brumme designed to spark the interest of youth in science. Event was attended by Members of the Canadian Association for Girls in Science (CAGIS) aged 8 - 16 years.	UG
Spring 2012	8th Fire Movie Event	Screening of CBC's documentary series "8th Fire: Aboriginal Peoples, Canada & The Way Forward" to promote awareness on the experiences of Indigenous people in Canada.	UG
Fall 2011	FHS AIDS Awareness Network (AAN)	AAN was founded by FHS students to raise funds and provide SFU students with opportunities to contribute to HIV/AIDS-related issues and activities in the community.	G & UG
Fall 2011	Dzaleka Project	Project was established by an FHS undergrad student to raise awareness and funds for those living in the Dzaleka refugee camp in Malawi, Africa.	UG

The AIDS Awareness Network was founded by two graduate students from the FHS, Adam King and Oghenowede Eyawo. The organization is committed to bringing graduate and undergraduate students together to engage in HIV/AIDS related issues and initiatives on campus and beyond, and to bring meaningful benefits to people affected by HIV/AIDS.

The initial objectives of the AIDS Awareness Network (AAN) are to:

- Provide students with an opportunity to apply theory learned in class to HIV/AIDS initiatives in order to build professional skills and experience;
- Reawaken the awareness and concern of the SFU community about HIV/AIDS issues here at SFU, in Vancouver, nationally, and internationally;
- Strengthen the impact and reach of the FHS by connecting and collaborating with HIV/AIDS organizations locally and internationally; and,
- Create partnerships with NGOs in developing nations to contribute support and resources.

## **Criterion Assessment**

### **3.2.f Assessment of the extent to which this criterion is met.**

#### ***Strengths:***

- SFU has a long standing and founding principle of service to its communities. This is internalized in the very ethos of the institution and is a cornerstone of the curricular design and mission of the Public Health programs in FHS.
- Service is also formally a part of the evaluation framework for contract renewal, tenure, promotion and salary review and is reflected in the governing policies of the university on these matters.
- Public Health program faculty members have a long and strong record of service activity to the community.

#### ***Weaknesses***

- The proportion of faculty that has at least one leadership role in local, provincial, national or international professional organizations is under target but is steadily growing.
- FHS is still at a relatively young age of development where more than 50% of our faculty are at the early Associate or Assistant professor stage of their careers. We expect that as these faculty members achieve personal prominence in their areas of expertise, their leadership roles in external organizations will increase.
- There are few formal and structured opportunities for student service opportunities initiated and developed by the Public Health programs in FHS. While there are opportunities for service engagement as part of some Practicum placements and as part of international experiences, the primary organizer of service opportunities for students is through the Graduate and Undergraduate Student Caucus groups within FHS.

*Plans*

- FHS will review the service commitments of faculty members and seek to identify local, provincial, national and international professional organizations where we can make the most meaningful contributions, as well as ways to mentor and support faculty to assume leadership positions in these organizations.
- The Public Health programs plan to examine how to expand meaningful community service contribution by graduate and undergraduate students, and how these can be effectively integrated into the overall learning experience for students and instilled as a core lifelong principle in graduands.

*This Criterion is partially met.*

## CRITERION 3.3 WORKFORCE DEVELOPMENT

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**The program shall engage in activities that support the professional development of the public health workforce.**

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### Workforce Development

#### 3.3.a Description of the ways in which the program periodically assesses the continuing education needs of the community or communities it intends to serve.

In 2007, the Public Health Association of British Columbia (PHABC) released a report entitled the “BC Map of Public Health Services” (see Resource 3.3). As part of this report, PHABC summarized the results of a public workforce survey that they conducted in 2007 (results begin on page 75). As far as we know this is the only source of information that identifies local workforce education needs in BC. Page 96 highlights what public health practitioners state they need by way of continuing education from colleges and universities.

We believe that we are meeting the needs identified for knowledge translation, particularly as related to the work of our centres (mental health and addiction, child health, gender & social inequities, carcinogens,); and in supporting practitioners in the field to learn research and evaluation skills.

Most of our centres ask participants about their continuing education needs as part of course evaluation surveys. The NextGenU program includes course assignments that ask participants to reflect on their local experiences and community context to identify community learning needs. Students identify local mentors and peers to complete the course activities. Courses also undergo thorough review by an advisory committee that consists of experts from the partnering countries and institutions. For example, a recent course on mental health and substance use disorders was created in partnership with Africa Mental Health Foundation in Kenya based on local needs.

CAREX gathers input from learners in many different ways: formally via online surveys (distributed after our tailored webinars to assess usefulness and clarify), a call for input in our quarterly e-Bulletin, and via annual needs assessment interviews; and informally via conversations with key users, working groups, and collaborators. There isn't a specific schedule for these solicitations, rather they're ongoing throughout the year and are a key part of CAREX's knowledge translation and exchange strategy.

Topics chosen for this year's CAREX webinar series, for example (traffic-related air pollution, eRISK for air quality specialists, occupational lung carcinogens, and eWORK for labour groups), were all suggested by users via the various means noted above. Needs assessment interviews conducted last year with key users such as the Canadian Cancer Society, was used to inform the content of the tailored webinars provided to them.

**3.3.b A list of the continuing education programs, other than certificate programs, offered by the program, including the number of participants served, for each of the last three years.**

The Public Health programs of FHS at SFU delivers workforce development programming through various academic centers within the Faculty and University including: the Centre for Applied Research in Mental Health and Addictions (CARMHA); CARcinogen Exposure—Canada (CAREX); Centre for Gender, Social Inequities and Mental Health; BC Alliance of Telehealth Policy and Research; and the Child Health Policy Centre. In addition, to these center activities, individual faculty through their community-based work, deliver a variety of workforce development initiatives. The Public Health program also supports the work of “Next Generation University,” an open-source, internet-based, learning network based in part on ASPPH core public health competencies (the long-term goal is to produce public health Massive Open Online Courses (MOOCS) available globally).

The following pages provide a listing of offerings by each of our Centres including dates, number of attendees, and audience type. We only recently began tracking this information in response to an interim report request from CEPH. Data are provided for the period of January 2013 to March 2014 and recent updates to March 2015.

**Centre for Applied Research in Mental Health and Addictions.**

FHS Professors Benedict Fisher, Elliot Goldner, and Adjunct Professors Dan Bilsker, Merv Gilbert and Donald Macpherson provide leadership to The Centre and participate in knowledge translation activities with practitioners in the field.

**CARMHA Organized/Sponsored Continuing Education Events**

**March 2014 – March 2015**

<b>Date</b>	<b># Attendees</b>	<b>Event</b>	<b>Audience Type</b>	<b>Presentation Title</b>
January 28, 2014	45	Providence Health Care, St. Paul’s Hospital, Psychiatry Grand Rounds	Community Practitioners, Health care professionals, Public Health Officials	Integrating Psychiatry and Primary Health Care
February 21, 2014	70	Mayor’s Task Force, City of Vancouver, Vancouver, BC	Municipal government officials, Policymakers	Selecting Indicators to address Severe Mental Illness and Addiction in Vancouver
March 3 – 4, 2014	20	Workplace Wellness Forum: Community of Practice for Canadian Universities and Colleges	Community Practitioners, Health Educators, Public Health Practitioners	Presentation on Psychological Health: Actions, Strategies and Tools

<b>Date</b>	<b># Attendees</b>	<b>Event</b>	<b>Audience Type</b>	<b>Presentation Title</b>
April 12, 2014	Not reported	Annual Conference of the American Academy of Oral Medicine, Orlando, United States	Health care professionals	Substance Use & Public Health: Select Issues & Trends from a Global Perspective
April 23, 2014	80	National Standard Case Study Orientation Presentation	Health care professionals	No title
April 30 2014	100	Practice Support Program - Managing the Function of Patients with Pain – 2nd Provincial Session. Weston Centre, Richmond, BC	Health care professionals	Supported Self-Management for mood problems in Chronic Pain
May 21, 2014	40	BC Nurses Union, Aging and Mental Health Conferences	Health care professionals	Positive Coping with Health Conditions
May 26 – 30, 2014	25	2014 Social Innovation Exchange (SIX) Conference, Vancouver, BC	Not reported	Workshop on the OAS Scenarios Building Project and Supervised Injection Sites
June 18,, 2014	200	Toronto, ON	Not reported	Overdose Policy Brief Launch
June 18 – 21, 2014		Second International Conference on Governance, Crime and Justice Statistics, United Nations Office on Drug Control (UNODC), Mexico City	Not reported	Substance Use & Public Health: Are We Measuring What Matters?
June 26, 2014	50	Presentation for the Canadian Centre for the Relief of Pain and Disability	Community Practitioners Health Care Workers Public Health Officials	Creating and Sustaining Psychologically Healthy Workplaces
Aug 13, 2014	Not reported	Presentation at Symposium: ‘Usos da Cannabis: Danos, Saúde e Políticas Públicas’; University of Brasilia, Brasilia, Brazil	Not reported	Cannabis – Considerations for a Public Health Approach
September 8 – 9, 2014	80	Keynote presentation at Alberta Healthy Workplace Awards	Community Practitioners, Health Care Workers, Public Health Officials	No title

<b>Date</b>	<b># Attendees</b>	<b>Event</b>	<b>Audience Type</b>	<b>Presentation Title</b>
September 12, 2014	120	WorkSafeBC Healthcare Professional Conference. Keynote and Workshop presentation	Community Practitioners Health Care Workers Public Health Officials	No title
September 18, 2014	15	Psychological Health and Safety in the Workplace	Not reported	Psychological Health and Safety in the Workplace
September 22 – 24, 2014	200	Autonomous University of Mexico and Senate of Mexico, Mexico City, Mexico	Not reported	Cannabis Medicinal en México
September 30, 2014	75	Keynote Presentation at the Work Stress Management Conference	Community Practitioners, Health Care Workers, Public Health Officials	An Introduction to Guarding Minds @ Work
September 30, 2014	35	Parliament Building. Ottawa, ON	Policymakers	Drug Policy Roundtable Meeting on Overdose Response and Awareness
Oct 20, 2014	200	Webinar	Clinicians in Quebec sponsored by the Qualaxia Network	Soutien à l'autogestion de la dépression
October 23 – 26, 2014	100	Panel Discussions: Harm Reduction Coalition Conference. Baltimore, MD	Not reported	Using Drugs Safely in Bathrooms of Community-Based Organizations and View From the Americas – Canada's Role in Global Drug Policy Reform
Nov 6, 2014	Not reported	Prevention of Prescription Opioid Abuse' Workshop, Canadian Pain Society, Toronto	Community Practitioners, Health Care Workers, Public Health Officials	Epidemiology of Prescription Opioid Misuse and Harms in Canada.
November 13, 2014	80	Canadian Labour Congress/FETCO Symposium	Community Practitioners, Health Care Workers, Public Health Officials	Psychological Health and Safety in the Workplace: Meeting the Needs of Young Workers
December 1, 2014	50	Harm Reduction Film Series: Simon Fraser University, Harbour	Community Practitioners, Health Care Workers, Public	World AIDS Day

Date	# Attendees	Event	Audience Type	Presentation Title
		Centre. Vancouver, BC	Health Officials	
December 5, 2014	40	Ministry of Labour, Invalids & Social Assistance. Government of Viet Nam. Hanoi, Viet Nam	Government officials	Addressing Community Mental Health Services in Viet Nam
January 19, 2015	Not reported	Summer School in 'Addiction Studies', Universidad de Concepcion, Chile	Not reported	Epidemiology and Burden of Disease of Illicit Substance Use in Global Perspective.
January 20, 2015	38	Vancouver Coastal Health Grand Rounds. Vancouver, BC	Health Care Workers, Public Health Practitioners	Managing Severe and Enduring Eating Disorders in the Community: Psychiatric Comorbidity
January 20, 2015	Not reported	Summer School in 'Addiction Studies', Universidad de Concepcion, Chile	Not reported	Ethical and Political Issues related to Illicit Substance Use Control and Research.
January 21, 2015	Not reported	Cannabis Use & Control: Summer School in 'Addiction Studies', Universidad de Concepcion, Chile	Not reported	Considerations towards a Public Health Approach.
January 22, 2015	60	Mental Health Commission of Canada. Ottawa, ON	Community Practitioners Health Care Workers Public Health Officials	Informing the Future: Mental Health Indicators for Canada
February 25, 2015	50	Harm Reduction Film Series: Simon Fraser University, Harbour Centre. Vancouver, BC	Community Practitioners Health Care Workers Public Health Practitioners	The Drug Overdose Crisis
February 26, 2015	75	Local Government Management Association of BC	Municipal leaders	Resiliency in Public Services
February 27, 2015	200	Panel Presentation: Canadian Students for Sensible Drug Policy Conference, University of Toronto	Community Practitioners Health Care Workers Public Health Officials	A Public Health Approach to Illegal Drugs.
March 12, 2015	50	Panel Presentation: UNODC Commission	Community Practitioners, Health	Meeting the Challenge,

<b>Date</b>	<b># Attendees</b>	<b>Event</b>	<b>Audience Type</b>	<b>Presentation Title</b>
		on Narcotic Drugs. Vienna, Austria	Care Workers, Public Health Officials	Implementing a Public Health Approach to Drugs
March 26, 2015	50	Harm Reduction Film Series: Simon Fraser University, Harbour Centre. Vancouver	Community Practitioners Health Care Workers Public Health Officials	Heroin Assisted Treatment
March 25 – 27, 2015	N/A	National Criminal Law Seminar, National Justice Institute (NJI), Vancouver, Canada	N/A	History of Drug Legislation in Canada and Current Models of Drug Law Reform.
March 27/28, 2015	N/A	Clinical Practice Conference, Canadian Consortium for the Investigation of Cannabinoids (CCIC), Toronto, Canada	Clinicians	The State of Cannabis Control Reform in Global Context.

**January 2013-March 2014**

<b>Date</b>	<b># Attendees</b>	<b>Event</b>	<b>Audience Type</b>	<b>Presentation Title</b>
01/14/2013	12	CARMHA Rounds. SFU, Harbour Centre, Vancouver	Community Practitioners Health Care Workers, Public Health Practitioners	Measuring Generic Health Benefit
03/19/2013	28	Workshop at the 45th Banff International Conference on Behavioural Science, Banff, Theme Workplace Health	Community Practitioners Health Care Workers Public Health Practitioners	Workforce Cognitive Behaviour Therapy: A Practical Approach to Helping Distressed Workers
04/08/2013 10/30/2013	18 24	CARMHA Invitational Seminar	Two delegations from Chongqing	Policy and Resources to Promote Workplace Psychological Health and Safety in Canada
04/02/2013	50	National Government of Uruguay. Montevideo, Uruguay.	Health practitioners Public Health Officials and sitting members of the Uruguayan Parliament	Issues of Market Mobility in the Context of Cannabis Legalization
04/09/2013	25	Managing Bullying and Harassment in the Workplace, Vancouver	Community Practitioners Health Care Workers Public Health Practitioners	Rehabilitating Workplace Bullies
05/02/2013	150	Canadian Life and Health Insurance Association	Community Practitioner Health Care Workers Public Health Practitioners	Effective strategies for the case manager
05/23/2013	50	Alberta Harm Reduction Conference, Calgary	Community Practitioners Health Care Workers Public Health Practitioners	Launch of CDPC's 2013 Report, "Getting to Tomorrow: A Report on Canadian Drug Policy"
06/18/2013	70	Mary Pack Arthritis Program, Vancouver	Health Care Workers	Cognitive behavioral interventions in PT/OT
06/28/2013	70	Collaborative Care in Mental Health, Montreal	Community Practitioners Health Care Workers Public Health Practitioners	Disseminating practices in a complex world
09/25/2013	140	Mental Health Commission of Canada	Community Practitioners Health Care Workers Public Health Practitioners	Town Hall Workplace Webinar - Guarding Minds @ Work and MHCC
11/07/2013	40	Annual Post-Graduate Psychiatry Training Day. University of British Columbia. Vancouver, BC	Graduate students	Health Advocacy in Psychiatry
11/18/2013	15	Supporting Patient Self-management in Chronic Disease Care. Calgary	Community Practitioners Health Care Workers Public Health Practitioners	Empowering patient self-care: Antidepressant Skills Workbook
11/21/2013	1500	St. Paul's Hospital	Family Physicians	10 min. Cognitive

<b>Date</b>	<b># Attendees</b>	<b>Event</b>	<b>Audience Type</b>	<b>Presentation Title</b>
		Continuing Medical Education conference, Vancouver		Behavioral Therapy
12/16/2013	25	Canadian Institute for Health Information. Ottawa, ON	Community Practitioners Health Care Workers Public Health Practitioners	National Mental Health Indicators: The Data Project
12/30/2013	100	Civil Society Forum and the 54 <sup>th</sup> session of the Inter-American Substance Abuse Control Council (CICAD) meeting in Bogota, Colombia,	Public Health, criminal justice and country delegations to the CICAD meeting present	Criminalization and a Public Health Approach to Psychoactive Substances
07/24/2013	40	National Institutes of Disability Management and Research Summer Institute, Port Alberni BC	Community Practitioners, Health Care Workers, Public Health Officials	Implementing good practice: An Action Guide for Employers
09/30/2013	15	City of Vancouver comprehensive approach to drug policy and housing. Meeting with delegates from Saint-Ouen, Paris, France.	Public Health Officials Politicians Policymakers	Vancouver's Four Pillars Drug Strategy
07/17/2013	40	BC Ministry of Health and BC Substance Use Network, Vancouver	Community Practitioners, Health Care Workers, Public Health Officials, Policymakers	Prescription Opioid Misuse and Harms: An Overview
02/21/2014	50	Mayor's Task Force on Mental Health & Addiction, City of Vancouver, Vancouver, BC		Selecting Indicators to address Severe Mental Illness and Addiction in Vancouver

### Carex (CARcinogen Exposure) Canada

Dr. Anne-Marie Nicol, FHS Assistant Professor, leads CAREX Canada. CAREX Canada (an acronym for CARcinogen EXposure), is a multi-institution team of researchers that combines academic expertise and government resources to generate an evidence-based carcinogen surveillance program for Canada. CAREX Canada estimates the number of Canadians exposed to substances associated with cancer in workplace and community environments.

### CAREX Organized/Sponsored Continuing Education Events

#### March 2014 – March 2015

Date	# Attendees	Event	Audience Type	Title
Apr 10	10	Presentation Type	Academic	SFU Health Research Day
April 10	30	Poster	Health Authority	Public Health Ontario
May 4-6	50	Face-to-face presentation	Industry	Canadian Association of Radon Scientists and Technologists (CARST) Conference
May 6-7	35	Face-to-face presentation	International	Pan-American Health Organization, National Cancer Institute of Colombia and others
May 26-30	20	Workshop	Industry	Canadian Radiation Protection Association
May 29	15	Face-to-face presentation	Academic, Health Authority	Canadian Public Health Association Public Health 2014 Conference
Jun 3	24	Face-to-face presentation	Provincial Government	Departments of Health & Wellness, Labour, and Cancer Care Nova Scotia
Jun 4	6	Workshop	Provincial Government	Workplace Health, Safety and Compensation Commission and Service Newfoundland
Jun 9	30	Face-to-face presentation	Academic	SFU School of Communication – Applied Media Course (CMNS 326)
Jun 9-10	95	Workshop	Various	Canadian Knowledge Mobilization Forum
Jun 24-27	30	Poster	Academic	EPICOH 2014 a (0416)
Aug 23	50	Face-to-face presentation	Labour	BC Teachers' Federation (BCTF) Summer Leadership Conference
Sep 18	10	Face-to-face	Provincial Government	Office of the Worker

<b>Date</b>	<b># Attendees</b>	<b>Event</b>	<b>Audience Type</b>	<b>Title</b>
		presentation		Advisor (Government of Ontario)
Sep 23	8	Webinar	NGO	Canadian Cancer Society - Quebec
Sep 30	29	Webinar (Fr)	Health Authority (Air Quality Specialists)	GTA Clean Air Partnership
Oct 7	42	Webinar	Various	CAREX Webinar Series: Traffic-related Outdoor Air Exposures
Oct 19-22	25	Webinar	Academic	Safety and Health in Agricultural and Rural Populations
Oct 28	8	Face-to-face presentation	Labour	CAREX Webinar Series: eWORK for Labour Groups
Nov 6	19	Webinar	Various	CAREX Webinar Series: Occupational Lung Exposures
Nov 19	70	Webinar	NGO	Canadian Cancer Society – National
Nov 27	100	Webinar	Various	Toronto Cancer Prevention Coalition Meeting
Dec 4	24	Face-to-face presentation	Various	CAREX Webinar Series: eRISK for Air Quality Specialists
Mar 4	6	Webinar	Labour (Occupational Health and Safety Committee)	Canadian Union of Public Employees
Mar 4	3	Webinar	Health Authority	eRISK Testing with Fraser Health Authority Drinking Water Staff
Mar 6	75	Face-to-face workshop	Various	Radon Testing and Beyond (BC Lung Association, Health Canada, National Collaborating Centre for Environmental Health and others)
Mar 9	40	Workshop	Provincial Government, NGO	Government of Saskatchewan – MLAs (Canadian Cancer Society - Saskatchewan hosting)

**January 2013-March 2014**

<b>Date</b>	<b># Attendees</b>	<b>Event</b>	<b>Audience Type</b>	<b>Title</b>
4/3/2013	10	Cancer Care Nova Scotia and Department of Health and Wellness (Govt of Nova Scotia)	Cancer Prevention Coordinator Chief Medical Health Officer Environmental Health Consultants Epidemiologists	CAREX Canada: Tools for Occupational and Environmental Exposure Surveillance in Nova Scotia
5/14/2013	8	Workers Compensation Board of Manitoba	Occupational Hygienists Business Information Analysts	CAREX Canada: Tools for Occupational Exposure Surveillance in Manitoba
5/15/2013	7	Fraser Health Authority, Abbotsford BC	Environmental Health Officers	Training on CAREX Canada's eRISK Tool
10/10/2013	12	Various - Webinar	Researchers	CAREX Canada: Tools for Occupational Exposure Surveillance
11/20/2013	65	Canadian Cancer Society, Vancouver BC	Cancer Information Service Epidemiologists	CAREX Canada: Exposures to Occupational and Environmental Carcinogens
11/21/2013	50	Various - Webinar	Researchers Public Health Practitioners Statisticians Policymakers	CAREX Canada: Carcinogen Exposures via Outdoor Air
1/8/2014	50	Occupational Health Clinics for Ontario Workers (OHCOW)	Occupational Hygienists Occupational Physicians	CAREX Canada: Tools for Occupational Exposure Surveillance
1/16/2014	35	Various - Webinar	Policy Analysts, Researchers	CAREX Canada: eWORK Tool
1/22/2014	25	BC Federation of Labour, Vancouver BC	Health and Safety Committee Representatives (union)	CAREX Canada: Occupational Exposures to Carcinogens in BC Workplaces
2/14/2014	15	BC Building Trades, New Westminster BC	Health and Safety Committee Representatives (union)	CAREX Canada: Occupational Exposures to Carcinogens in BC Workplaces
3/13/2014	10	BC Building Trades, New Westminster BC	Health and Safety Committee Representatives (union)	Training on CAREX Canada's eWORK Tool

Date	# Attendees	Event	Audience Type	Title
3/27/2014	20	Canadian Labour Congress - Webinar	Occupational Health and Safety Committee Representatives (union)	CAREX Canada: Tools for Occupational Exposure Surveillance

**CAREX (academic conferences, symposia/meetings initiated by other orgs)**

Date	# Attendees	Event	Audience Type	Title
5/8/2013	75	Canadian Association of Radon Scientists and Technologists - Annual Conference	NGOs Industry Federal and Provincial Government	From measurement to mitigation: A review of the evidence
6/20/2013	30	EPICOH, Utrecht Netherlands	Academics (researchers, students)	Occupational exposures in veterinarians: findings from a national surveillance project (CAREX Canada)
6/20/2013	30	EPICOH, Utrecht Netherlands	Academics (researchers, students)	Occupational exposures to known and suspected carcinogens in the Canadian construction industry
12/5/2013	50	CANVAC/VIVA Visual Analytics Research Symposium, Vancouver BC	Academic (researchers, students), Industry, Public Health Professionals	CAREX Canada: Visualization of exposure surveillance
1/9/2014	35	Occupational, Environmental and Public Health Conference, Semiahmoo, WA	Public Health Professionals, Academics (researchers, students)	Radon exposure in workplaces
1/9/2014	36	Occupational, Environmental and Public Health Conference, Semiahmoo WA	Public Health Professionals, Academics (researchers, students)	Knowledge translation through tailored summary packages: Sharing CAREX Canada's carcinogen surveillance resources
2/24/2014	150	Occupational Cancer Research Centre Lung Cancer Symposium, Toronto	Academic (researchers), Provincial Government Labour representatives	Prevalence of Occupational Lung Carcinogens
3/4/2014	150	Alberta Human Services: Occupational Disease Prevention	Researchers, Policy Analysts, Occupational Hygienists	Workshop on CAREX Canada's eWORK Tool

Date	# Attendees	Event	Audience Type	Title
		Symposium, Edmonton, AB		
3/27/2014	45	SFU FHS Rounds, Burnaby BC	Academics (researchers, students)	CAREX Canada: A carcinogen surveillance project

### Centre for Gender, Social Inequities and Mental Health

Dr. Marina Morrow, FHS Associate Professor, is the director of FHS' Centre for the Student of Gender, Social Inequities and Health. The Centre engages in innovative research, knowledge exchange and training activities with researchers, community service providers, policymakers and public health practitioners.

### Centre for Gender, Social Inequities and Mental Health Organized/Sponsored Continuing Education Events

#### January 2013 – March 2014

Date	# Attendees	Event	Audience Type	Title
2/2/2013	21	CGSM Learning Institute, Vancouver BC	3 Public Health Practitioners 2 Community 14 Students 1 Faculty 1 Staff	Justice doing and Solidarity in Workplace Settings
1/20/2013	44	CGSM Colloquia, Vancouver BC	22 Health Practitioners 12 Students 7 Faculty 1 Community	Creating & Sustaining Collaborative Social Justice; Solidarity & Decolonizing Communities of Practice
2/21/2013	100	CGSM Forum, Vancouver BC	Students Faculty Community Members	Forum on Indigenous Nationhood, Land, and Sovereignty: Building Respectful Relationships
9-10/05/2013	50	CSGM Critical Inquires Annual Workshop, Vancouver BC	Practitioners Faculty Students CEGM Investigators CEGM Trainees	Engaging Theories and Methodologies for Research Social Inequities in Mental Health
8/05/2013	60	CGSM Forum, Vancouver BC	Faculty Students Community members	Mothering, Mental Health & Homelessness
11/05/2013	23	CGSM Roundtable, Vancouver BC	Practitioners Faculty Students Community members	Community of Practice Circle – Violence, Mental Health and Substance Use Theme Group
9-11/05/2013	150	Documentary	Practitioners	The Inmates are Running

Date	# Attendees	Event	Audience Type	Title
		Screening and Dialogue, Vancouver BC	Faculty Students Community	the Asylum

### BC Alliance of Telehealth Policy and Research

Dr. Scott Lear, FHS Professor, is the Director of BCATPR, a joint partnership consisting of academic institutions and provincial health authorities committed to providing relevant evidence and capacity building for integration of sustainable telehealth care services into routine health care practices within British Columbia.

### BCATPR Organized/Sponsored Continuing Education Events

#### January 2013-March 2014

Date	# Attendees	Event	Audience Type
06/15/2015	TBD <sup>1</sup>	BCATPR Workshop 2015	TBD
05/26.2015	83	Telehealth, eHealth and Mobile Health Advances in BC and Beyond	Public Health Practitioners Researchers Students
06/18/2013	126	Mobile Applications to Support Behaviour Change, Clinical Decision Making and Health Services Delivery, Vancouver BC	Clinicians, Policymakers, Researchers Health Care Workers, Public Health Practitioners

<sup>1</sup>Event in the future

### Environmental Health

Dr. Ryan Allan FHS Associate Professor, collaborates with the BC Lung Association to deliver an Annual Air Quality Workshop for public health practitioners and researchers.

Date	# Attendees	Event	Audience Type
03/25/2015	TBD <sup>1</sup>	12 Annual Air Quality and Health Workshop, Vancouver BC	TBD
10/03/2014	117	11 <sup>th</sup> Annual Air Quality and Health Workshop, Vancouver, BC	Public Health Professional 46 Public Health Management 1 NGO: 2 Air Quality & Public Health 4 Air Quality Scientist & Public Health 2 Air Quality Scientist 14 Air Quality Professional 18 Air Quality Consultant 12 Air Quality Management: 6 Politician: 2 Student: 10

<sup>1</sup> At the time of printing the number & type of attendees was not known.

### Child Health Policy Centre

FHS's Child Health Policy Centre is led by Associate Professor Dr. Charlotte Waddell. Each year the Centre hosts the Visiting Scholar Series at SFU's Wosk Centre in downtown Vancouver to bring together Policymakers, practitioners, researchers and the public to learn about latest research in child health policy. For 9 years, the Centre has published the Children's Mental Health Research Quarterly, an electronic publication on effective interventions for preventing and treating children's mental disorders. The publication reaches 2000 senior policymakers, healthcare practitioners, teachers, families and members of the public across BC and Canada. As the Centre's Director, Dr. Waddell regularly engages in knowledge translation activities with practitioners and policymakers at workshops and forums.

### Child Health Policy Centre Organized/Sponsored Continuing Education Events

#### January 2013-March 2014

Date	# Attendees	Event	Audience Type	Title
06/07/2014	150	CHPC Forth Annual Mowafaghian Visiting Child Health Policy Scholar – includes a public event at SFU's Wosk Centre, Vancouver BC	Policymakers and researchers (50%) Practitioners (25%) Students (15%) Public (10%)	Debra Pepler: Can we Prevent Bullying? Teaching Adults to Teach Kids
06/11/2014	30	BC Legislative Select Standing Committee on Children and Youth	Policymakers Elected leaders	Improving Mental Health of BC's Children

<b>Date</b>	<b># Attendees</b>	<b>Event</b>	<b>Audience Type</b>	<b>Title</b>
2/05/2013	150	CHPC Third Annual Visiting Scholar Series, Vancouver, BC	Policymakers and researchers (50%) Practitioners (25%) Students (15%) Public (10%)	Cindy Blackstock: Mosquito Advocacy: Structural Determinants of Aboriginal Children's Health.
2013		Aboriginal Maternal and Child Health Working Group Vancouver, BC	BC MoH, FNIHB and BC First Nations Health Authority	BC Healthy Connections Project
2013		Provincial Child and Youth Mental Health Forum, Richmond BC	BC Ministry of Children and Family Development Policymakers Practitioners	Child and Youth Mental Disorders: Prevalence and Evidence-Based Interventions
2013		HELP Annual Early Childhood Assessment Meeting, Vancouver	Researchers and practitioners from communities and institutions across B.C.	A Population Health Approach to Children's Mental Health
2013		Panel Presentation, Canadian Association for Health Services and Policy Research Annual Meeting, Vancouver, BC	Policymakers and researchers	Childhood Depression: Preventing Problems, Starting Early
2013		Public Health Leadership Meeting, Fraser Health Authority, Langley BC	Public health practitioners in Fraser Health	BC Healthy Connections Project
2013		Canadian Academy of Child and Adolescent Psychiatry, Vancouver, BC	Practitioners and clinicians	Addressing Social Determinants of Children's Mental Health

### Fraser Health Authority Workshops

Dr. David Whitehurst, FHS Assistant Professor, provides education workshops on health economics and the research process for staff at the Fraser Health Authority. The workshops are delivered in partnership between SFU FHS and Fraser Health's Department of Evaluation and Research Services. The aim of the workshops is to familiarize participants with the steps critical to the research process; including literature searching, critical appraisal, development of research teams, research methods, data analysis, dissemination of results, obtaining funding, etc.

<b>Date</b>	<b># Attendees</b>	<b>Event</b>	<b>Audience Type</b>	<b>Title</b>
02/23/2015	7	Education Workshop, Surrey BC	Public Health Staff at Fraser Health	Economic Evaluation: What, Why, and How?
01/15/2014	11	Education Workshop, Surrey BC	Public health staff at Fraser Health	Economic Evaluation in Health Care.

<b>Date</b>	<b># Attendees</b>	<b>Event</b>	<b>Audience Type</b>	<b>Title</b>
06/14/2013	18	Education Workshop, Surrey BC	Public health staff at Fraser Health	Cost-Effectiveness of Fracture Liaison Services
04/03/2013	14	Education Workshop, Surrey BC	Public health staff at Fraser Health	Appraisal of Economic Evidence in Health Care
03/04/2013	35	Education Workshop Surrey BC,	Public health staff at Fraser Health	Merits of Modelling in Cost-Effectiveness Analysis
02/28/2013		BC Patient Safety & Quality Council 2013 Quality Forum, Vancouver BC		Patient-Reported Outcome Measurement (PROM) in British Columbia: What Has Been Achieved So Far and Where Next?
02/27/2013	8	Education Workshop, Surrey BC	Public health staff at Fraser Health	Appraisal of Economic Evidence in Health Care

### **Built Environment Workshops**

Dr. Meghan Winters, FHS Assistant Professor provides workshops and training on issues related to the built environment for public health professionals and municipal planners.

<b>Date</b>	<b># Attendees</b>	<b>Event</b>	<b>Audience Type</b>	<b>Title</b>
03/10/2015	25	Moving in a Livable Region, SFU Carbon Talks	Public Health Practitioners, Students, General Public, Policymakers	Transit Vote Burnaby: Congestion, Health and Livability
08/14/2014	100	Trans-Form Speaker Series	Elected officials, Public Health Officials, Advocates, Media, members of the public.	Is evidence in practice? Assessing how cycling education materials reflect research evidence
04/08/2014	28	UBC Department of Continuing Education, School of Population and Public Health	Public Health Practitioners Municipal Engineers and Planners	Bicycling by Design: Facilities to promote safe & healthy travel
04/10/2014	30	Rural Health Services Research Conference - Workshop: Resources for Municipalities Linking Health and Place through Research, Kelowna BC	Public Health Practitioners Municipal staff	Integrating health into transportation planning: what can municipalities, health authorities, and interested citizens do?"

### **Next Generation University (“NextGen-U”)**

Dr. Kate Tairyan (Senior Lecturer in the FHS) is the Director of Public Health at NextGen. Kate works in collaboration with Dr. Erica Frank, the founder of NextGenU, a Canada Research Chair & Professor at the School of Population and Public Health and Faculty of Medicine at UBC.

NextGenU pairs core public health competencies (from ASPH, ASPHER and PHAC) with high-quality e-resources, peer-to-peer learning, and mentored, community-based experiences. Trainees learn from high quality computer-based resources, become a part of global communities of practice, and benefit from local mentorships. Drs. Tairyan and Frank, have received two consecutive grants from Grand Challenges Canada to develop, test and scale up NextGenU’s free public health education model. This project is also supported by partners and founding collaborators, such as WHO, US CDC, World Bank, and the World Medical Association. Overall, there are over 2,400 registered users of NextGenU trainings in over 100 countries globally and the number is increasing as new courses are added.

SFU's FHS and NextGenU team together developed and tested the first core course in the public health curriculum, Environmental Health course, (PhD Candidate Lindsey Galway, Professor Tim Takaro, Associate Professor Ryan Allen created the course based on ASPH EOH core competencies). This core public health training is available online to any public health practitioner in training and practice and can be accessed at [NextGenU.org](http://NextGenU.org). Currently there are 133 registered users in this course in over 30 countries. A manuscript describing the pilot results is under review. Other public health trainings available through NextGenU project are Climate Change and Health, War and Health and Substance Use Disorders courses.

FHS faculty and graduate students actively collaborate with NextGenU to offer public health trainings on other topics of interest to public health professionals in practice. This includes Nutrition in Public Health, Community Health Care Worker, Introduction to Epidemiology and Social Behavioural Science courses under development in partnership with FHS. A major undertaking of training 10,000 family medicine residents is underway in collaboration with the Gezira Family Medicine Program and the Gezira State Ministry of Health in Sudan led by Drs. Tairyan and Frank.

NextGenU is a unique initiative that allows to reach those public health workers who are not able to benefit from the professional development opportunities offered in traditional settings due to cost and other barriers. NextGenU's public health trainings are free, high quality, competency-based, advertisement and carbon-free.

## NextGenU Continuing Education Events

January 2014-March 2015

<b>Date</b>	<b># Attendees</b>	<b>Course</b>	<b>Audience Type</b>
Available online anytime	197	Environmental Health	Public Health Practitioners Health Care Workers Students
Available online anytime	112	Climate Change and Health	Public Health Practitioners Health Care Workers Students
Available online anytime	271	Alcohol, Tobacco, and other Substance Use Disorders in Primary Care	Public Health Practitioners Health Care Workers Students
Available online anytime	207	Alcohol, Tobacco, and other Substance Use Disorder Screening	Public Health Practitioners Health Care Workers Students
Available online anytime	25	War and Health	Public Health Practitioners Health Care Workers Students

### 3.3.c Description of certificate programs or other non-degree offerings of the program, including enrollment data for each of the last three years.

Graduate diploma programs at SFU are specially designed programs that provide specialized combinations of courses for students who wish to upgrade their knowledge and skills at an advanced level. Students must be formally admitted through the Dean of Graduate Studies office on the basis of completed baccalaureate credentials and other qualifications. These programs are substantive and complement and supplement clinical training or academic training in complementary fields. With fewer, and highly focused, coursework in a particular area, Diploma programs often serve practitioner communities in a highly effective way.

The Diploma in Global Health is a stand-alone credential, designed to serve the needs of those who would like training in the basics of global health practice. The diploma is a useful adjunct to clinical training (e.g., medicine or nursing) or academic training in complementary fields (e.g., public policy) for those who wish to work internationally, or those who simply wish to learn more about current challenges in global health research and practice. In addition to core coursework, students in this graduate program will be directed to relevant elective coursework.

Students in the diploma program can expect to learn how to:

- define, assess and report on the health status of populations, the determinants of health and illness, and factors contributing to health promotion and disease prevention in resource-poor settings;
- identify and interpret appropriate data sources for investigating a health problem or issue;
- assess the scientific basis of public health and disease prevention programs in international settings;
- identify and apply the appropriate quantitative and/or qualitative methods used in prevention program planning, development and evaluation; and ,
- understand basic epidemiologic and statistical methods used in the global health literature.

The Diploma is designed to be completed on a part-time basis, though full-time study options are also available.

Students must complete a minimum 22 credit hours of course work, including the following core courses:

- HSCI-821-3 Problems in Global Health
- HSCI 822-3 Globalization and Health Inequities
- HSCI 801-4 Biostatistics I
- HSCI 802-4 Principles of Epidemiology for Public Health

Students must also complete a minimum of three elective courses, including two more courses in global health:

- HSCI 828-3 Health, Human Security, Social Justice
- HSCI 823-3 Health, Gender and Development
- HSCI 824-3 Comparative Health Systems
- HSCI 829-3 Health Policy Making in a Global Context
- HSCI 825-3 Advocacy and Communication in Global Health

and one HSCI graduate courses, or from other SFU graduate programs

<b>Table 3.3.c Three year Diploma Admissions Data – 2011 - 2014</b>			
<b>Diploma</b>	<b>2011 Admissions</b>	<b>2012 Admissions</b>	<b>2013 Admissions</b>
Diploma in Global Health	2	1	0

### 3.3.d Description of the program’s practices, policies and evaluation that support continuing education and workforce development strategies

The translation of knowledge to practice is embodied in both the mission and values of the program. Faculty members are assessed on a biennial basis and at the stage of tenure and promotion on the extent to which they are engaged in external workforce development activities. FHS is at the forefront of university practices that value the policy impact and translation of evidence to practice in the scholarly practices of our members.

### Collaborative Continuing Education

#### 3.3.e A list of other educational institutions or public health practice organizations, if any, with which the program collaborates to offer continuing education.

FHS is a leading participant within the collaborative effort of the three public health schools and programs in BC (University of British Columbia’s School of Population and Public Health, University of Victoria’s School of Public Health and Social Policy) that is coordinated by the Public Health Agency of BC and is actively involved in the annual conference and summer school provided through this collaboration.

The SFU Public Health programs participate in the annual **Public Health Association of British Columbia’s Summer Schools** and is a member of the PHABC's Capacity Building Committee, which provides leadership in professional development for the public health workforce in BC. Through this Committee the Public Health programs has helped to facilitate the PHABC Summer School over the last 4 years through participation in the organizing committees and is also involved in the Summer School. The Summer School is run annually and targets public health practitioners, mainly in BC. FHS Faculty

members have twice co-chaired the Summer School and consistently lead various sessions at the Summer School .

<b>Date</b>	<b># Attendees</b>	<b>Event</b>	<b>Audience Type</b>	<b>Title</b>
2014	150	Summer School	Public Health Practitioners	- Supporting and Protecting Health: Promoting Mental Wellness and Addressing Psychoactive Substances - Strengthening Healthy and Sustainable Communities through Local Government Planning and Public Health Collaboration
25-26/07/2013	88	Summer School	Public Health Practitioners	Building Reflexive and Cultural Competencies to Reduce Health Inequities

As identified in section 3.3.b above, Dr. Kate Tairyan (Senior Lecturer at the FHS) is the Director of Public Health at NextGen. NextGenU is collaboration with Dr. Erica Frank, a Canada Research Chair & Professor at the School of Population and Public Health and Faculty of Medicine at UBC.

### **Criterion Assessment**

#### **3.3.f Assessment of the extent to which this criterion is met.**

##### ***Strengths***

- FHS provides a range of workforce development programming through various academic centers within the Faculty and University. These activities meet the needs identified for knowledge translation, particularly as related to the work of our centres (mental health and addiction, child health, gender & social inequities, carcinogens,); and in supporting practitioners in the field to learn research and evaluation skills.
- FHS is a leading participant within the collaborative effort of the three public health schools and programs in BC.

##### ***Weaknesses***

- The intention of FHS to develop strong, workforce development ties with local health authorities (which is where public health activities reside in the Canadian context) needs more attention. Our current discussion with Fraser Health Authority (FHA), within which our Burnaby campus is situated, is at a very early stage and is reliant on this Authority to define its workforce development needs. Fortunately, an environmental scan has very recently been completed by FHA and will be shared with us in early 2015.
- FHS is not attracting high quality students interested in our Diploma in Global Health with the

result that our enrollment is very low. As of February 2014, we have decided to suspend the Diploma in Global Health (and enrollment into this program) pending further review of our non-degree training program.

***Plans***

- Public Health Programs of FHS will proceed with discussions with Fraser Health Authority to define contributions to its workforce development strategy.
- We will complete our review of the Diploma in Global Health to decide if we should continue offering this non-degree training program.
- We are currently in the process of expanding our complement of staff in a new faculty category at SFU – “Professors of Professional Practice” – that will emphasize health innovation and knowledge translation and implementation science. We are at various stages of the appointment process for three faculty members in this category. These faculty will help link our academic programs to public health practice in the local community. We are also developing a partnership arrangement with the Michael Smith Foundation for Health Research, our Provincial funding authority, to hold recurring knowledge translation workshops.
- FHS will continue to offer workforce development and continuing professional development offerings through its academic centres and will undertake an evaluation of these efforts for lessons learned and potential areas of strengthening.

***This Criterion is partially met.***