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MEMORANDUM

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ATTENTION	Senate	DATE	January 11, 2010
FROM	Bill Krane, Chair	PAGES	1/1
RE:	Senate Committee on Undergraduate Studies Faculty of Health Sciences (SCUS 10-04)		

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**For information:**

Acting under delegated authority at its meeting of January 7, 2010, SCUS approved the following curriculum revisions:

- (i) Deletion of HSCI 302, 422 and 423
- (ii) Changes to title, description, prerequisite and course number for HSCI 303, 310, 323, 442,443 and 482
- (iii) Minimum grades for current courses to count towards major
- (iv) Requirement changes for the minor in HSCI
- (v) Temporary withdrawal of HSCI 170 and HSCI 430

Senators wishing to consult a more detailed report of curriculum revisions may do so on the Web at [http://www.sfu.ca/senate/Senate\\_agenda.html](http://www.sfu.ca/senate/Senate_agenda.html) following the posting of the agenda. If you are unable to access the information, please call 778-782-3168 or email [bgrant@sfu.ca](mailto:bgrant@sfu.ca).

**For information:**



SIMON FRASER UNIVERSITY  
THINKING OF THE WORLD

## FACULTY OF HEALTH SCIENCES

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# MEMORANDUM

**TO:** SCUS  
**FROM:** Kitty Corbett, Director, Undergraduate Programs, Faculty of Health Sciences  
**DATE:** Dec. 17, 2009  
**RE:** Faculty of Health Sciences curriculum items  
**cc:** Jo Hinchliffe; John O'Neil

The Faculty of Health Sciences has approved various minor changes for some courses, and made some revisions to our BSc undergraduate program requirements. We are submitting these proposals to SCUS for consideration. Please place these on the agenda of the next SCUS meeting for discussion and a vote.

### COURSE CHANGES:

Course Name	Change Type
HSCI 302 - 3 Evidence-based Decision Making in Health	Course Deletion
HSCI 303 - 3 Perspectives on Behavioral Risks	Course Title, Description, Prerequisite
HSCI 310 - 3 Exploratory Strategies in Data Analysis	Course Number, Title, Description, Prerequisite
HSCI 323 - 3 Principles of Pharmacology and Toxicology	Prerequisite
HSCI 422 - 4 Diffusion Pathways in the Spread of Disease	Course Deletion
HSCI 423 - 3 Health Policy in Disease Mitigation and Public Health	Course Deletion
HSCI 442 - 4 Immunology Laboratory	Description
HSCI 443 - 4 Environmental Health Toxicology Laboratory	Course Title
HSCI 482 - 3 Senior Seminar in Infectious Diseases	Prerequisite

**PROGRAM CHANGES:**

<b>Program Name</b>	<b>Summary of Changes</b>
Minimum grade for current courses to count towards major	<ul style="list-style-type: none"><li>• Minimum grade of C-</li></ul>
Changes to requirements for the Minor in HSCI	<p>Students complete the following</p> <ul style="list-style-type: none"><li>• HSCI 130</li><li>• HSCI 100 or BISC 101</li></ul> <p>And three of the following</p> <ul style="list-style-type: none"><li>• HSCI 211-3 Perspectives on Cancer, Cardiovascular, and Metabolic Diseases</li><li>• HSCI 212-3 Perspectives on Infectious and Immunological Diseases</li><li>• HSCI 214-3 Perspectives on Mental Health and Illness</li><li>• HSCI 215-3 Perspectives on Disability and Injury</li><li>• HSCI 216-3 Ecological Determinants of Human Growth, Development and Health</li></ul> <p>And at least 15 upper division HSCI units, of which at least seven units of upper division credit used toward the minor must have been completed in Simon Fraser University courses</p>

**SIMON FRASER UNIVERSITY**  
**Senate Committee on Undergraduate Studies**  
**Course Change/Deletion Form**

Existing Course Number/Title: **HSCI 302-3 Evidence-Based Decision-Making in Health**

Please check appropriate revision(s) being recommended:

Course Number: \_\_\_\_\_ Credit Hour: \_\_\_\_\_ Title: \_\_\_\_\_

Description: \_\_\_\_\_ Prerequisite: \_\_\_\_\_ State number of hours for:  
Lect ( ) Sem ( ) Tut ( ) Lab ( )

Course deletion:   **X**  

FROM:

TO:

Long title for calendar/schedule no more than 100 characters including spaces/punctuation

**AND**

Short title for registration/transcript no more than 30 characters including spaces/punctuation

RATIONALE:

**The course has never been taught and there is no one who has indicated an interest in teaching it. This is one of a set of original FHS courses put in the Calendar prior to the arrival of most of the current FHS faculty.**

Does this course replicate the content of a previously approved course to such an extent that students should not receive credit for both courses? If so, this should be noted in the pre-requisite.

N/A

Effective semester and year     **Fall, 2010**

**SIMON FRASER UNIVERSITY**  
**Senate Committee on Undergraduate Studies**  
**Course Change/Deletion Form**

Existing Course Number/Title: **HSCI 422-4 Diffusion Pathways in the Spread of Disease**

Please check appropriate revision(s) being recommended:

Course Number: \_\_\_\_\_ Credit Hour: \_\_\_\_\_ Title: \_\_\_\_\_

Description: \_\_\_\_\_ Prerequisite: \_\_\_\_\_ State number of hours for:  
Lect ( ) Sem ( ) Tut ( ) Lab ( )

Course deletion:   **X**  

FROM:

TO:

Long title for calendar/schedule no more than 100 characters including spaces/punctuation

**AND**

Short title for registration/transcript no more than 30 characters including spaces/punctuation

RATIONALE:

**The course has never been taught and there is no one who has indicated an interest in teaching it. This is one of a set of original FHS courses put in the Calendar prior to the arrival of most of the current FHS faculty.**

Does this course replicate the content of a previously approved course to such an extent that students should not receive credit for both courses? If so, this should be noted in the pre-requisite.

N/A

Effective semester and year   **Fall, 2010**  

4.

**SIMON FRASER UNIVERSITY**  
**Senate Committee on Undergraduate Studies**  
**Course Change/Deletion Form**

Existing Course Number/Title: **HSCI 423-3 Health Policy in Disease Mitigation and Public Health**

Please check appropriate revision(s) being recommended:

Course Number: \_\_\_\_\_ Credit Hour: \_\_\_\_\_ Title: \_\_\_\_\_

Description: \_\_\_\_\_ Prerequisite: \_\_\_\_\_ State number of hours for:  
Lect ( ) Sem ( ) Tut ( ) Lab ( )

Course deletion:   **X**  

FROM:

TO:

Long title for calendar/schedule no more than 100 characters including spaces/punctuation

**AND**

Short title for registration/transcript no more than 30 characters including spaces/punctuation

RATIONALE:

**The course has never been taught and there is no one who has indicated an interest in teaching it. This is one of a set of original FHS courses put in the Calendar prior to the arrival of most of the current FHS faculty.**

Does this course replicate the content of a previously approved course to such an extent that students should not receive credit for both courses? If so, this should be noted in the pre-requisite.

**N/A**

Effective semester and year   **Fall, 2010**

**SIMON FRASER UNIVERSITY**  
**Senate Committee on Undergraduate Studies**  
**Course Change/Deletion Form**

Existing Course Number/Title: **HSCI 303-3 Perspectives on Behavioural Risks**

Please check appropriate revision(s) being recommended:

Course Number: \_\_\_\_\_ Credit Hour: \_\_\_\_\_ Title: **X**

Description: **X** Prerequisite: **X** State number of hours for:  
Lect ( ) Sem ( ) Tut ( ) Lab ( )

Course deletion: \_\_\_\_\_

FROM:

Existing Course Number/Title: **HSCI 303-3 Perspectives on Behavioural Risks**

Description:

**An interdisciplinary over-view from a public health perspective of behaviors and conditions associated with leading causes of morbidity and mortality.**

Prerequisite:

**45 units, including either HSCI 130 or KIN 140.**

TO:

Existing Course Number/Title: **HSCI 303-3 Health and Behaviour**

Description:

**An interdisciplinary overview from a public health perspective of behaviours associated with morbidity and mortality, and principles and strategies for behaviour change. Cases include tobacco control, HIV prevention, and programs to improve diet and physical activity.**

Prerequisite:

**45 units, including either HSCI 130, KIN 140, or GER 300.**

**RATIONALE:**

The original name is too narrow for the content that is addressed in this course. The updated course description includes strategies for improving health behavior. Prerequisites are changed to facilitate access to students from other Faculties and because the necessary preparation can be acquired in different courses.

**Does this course replicate the content of a previously approved course to such an extent that students should not receive credit for both courses? If so, this should be noted in the pre-requisite.**

N/A

Effective semester and year **Fall 2010**

6.

**SIMON FRASER UNIVERSITY**  
**Senate Committee on Undergraduate Studies**  
**Course Change/Deletion Form**

Existing Course Number/Title: **HSCI 310-3 Exploratory Strategies in Data Analysis**

Please check appropriate revision(s) being recommended:

Course Number:   X        Credit Hour:             Title:   X  

Description:   X        Prerequisite:   X        State number of hours for:  
Lect ( ) Sem ( ) Tut ( ) Lab ( )

Course deletion:       

FROM:

Existing Course Number/Title: HSCI 310-3 Exploratory Strategies in Data Analysis

Description:

A foundation in computing and analytical skills for independent analysis of epidemiologic data. It includes a mandatory SAS computing laboratory.

Prerequisite:

HSCI majors with 90 units, including HSCI 330 and HSCI 325, or permission from instructor.

TO:

Existing Course Number/Title: HSCI 410-3 Exploratory Data Analysis

Description:

Regression and data analysis techniques for health research. Practical approaches to linear and logistic regression, multivariable modelling, interaction, variable selection, confounding, and measures of association. Computer-based laboratory exercises using statistical software applied to health datasets.

Prerequisite:

STAT 302. Recommended: HSCI 330.

RATIONALE:

**The current course description lacks detail and is too narrow. Additionally, HSCI 310 is normally taken in the fourth year because it has STAT 302 as a prerequisite, and it is an advanced course; thus it is better situated at the 400 level.**

Does this course replicate the content of a previously approved course to such an extent that students should not receive credit for both courses? If so, this should be noted in the pre-requisite.

N/A

Effective semester and year       Fall 2010      

7.

**SIMON FRASER UNIVERSITY**  
**Senate Committee on Undergraduate Studies**  
**Course Change/Deletion Form**

Existing Course Number/Title: **HSCI 323-3 Principles of Pharmacology and Toxicology**

Please check appropriate revision(s) being recommended:

Course Number: \_\_\_\_\_ Credit Hour: \_\_\_\_\_ Title: \_\_\_\_\_

Description: \_\_\_\_\_ Prerequisite:  X  State number of hours for:  
Lect ( ) Sem ( ) Tut ( ) Lab ( )

Course deletion: \_\_\_\_\_

FROM:

Prerequisite: MBB 221, CHEM 282, BISC 313

TO:

Prerequisite: MBB 231, CHEM 282

**RATIONALE:**

**When the course was initially mounted, a background for classes of environmental pollutants was considered essential for understanding the proposed content. However, after the course was delivered several times, this content has now been incorporated into the syllabus and therefore BISC 313 is no longer required as a prerequisite. MBB 221 is not in the Calendar, having been replaced by MBB 231.**

Does this course replicate the content of a previously approved course to such an extent that students should not receive credit for both courses? If so, this should be noted in the pre-requisite.

N/A

Effective semester and year Fall, 2010

**SIMON FRASER UNIVERSITY**  
**Senate Committee on Undergraduate Studies**  
**Course Change/Deletion Form**

Existing Course Number/Title: **HSCI 442-4 Immunology Laboratory**

Please check appropriate revision(s) being recommended:

Course Number: \_\_\_\_\_ Credit Hour: \_\_\_\_\_ Title: \_\_\_\_\_

Description: **X** Prerequisite: \_\_\_\_\_ State number of hours for:  
Lect ( ) Sem ( ) Tut ( ) Lab ( )

Course deletion: \_\_\_\_\_

FROM:

Description:

Study, in a laboratory environment, of the molecular and cellular basis of the immune system. Immunology overlaps with many other biological disciplines includes biochemistry, molecular biology, cell biology, genetics, physiology, microbiology and relies on laboratory methods and concepts derived from these laboratory methods and concepts derived from these disciplines.

TO:

Description:

Laboratory methods in immunology. Focus on the vertebrate immune system and the molecular and cellular principles underlying immune recognition. Experimental methods designed to combine serology, biochemistry, molecular biology, cell biology and genetics as a basis for understanding immunological aspects of health and disease.

RATIONALE:

The new description will provide students with a better understanding of the focus of this lab course.

Does this course replicate the content of a previously approved course to such an extent that students should not receive credit for both courses? If so, this should be noted in the pre-requisite.

N/A

Effective semester and year Spring 2011

**SIMON FRASER UNIVERSITY**  
**Senate Committee on Undergraduate Studies**  
**Course Change/Deletion Form**

Existing Course Number/Title: **HSCI 443-4 Environmental Health Toxicology Lab**

Please check appropriate revision(s) being recommended:

Course Number: \_\_\_\_ Credit Hour: \_\_\_\_ Title: **X** \_\_\_\_

Description: \_\_\_\_\_ Prerequisite: \_\_\_\_ State number of hours for:  
Lect ( ) Sem ( ) Tut ( ) Lab (4)

Course deletion: \_\_\_\_\_

FROM:

Existing Course Number/Title: HSCI 443-4 Environmental Health Toxicology Lab

TO:

Existing Course Number/Title: HSCI 443-4 Molecular Toxicology Lab

**AND**

Short title for registration/transcript no more than 30 characters including spaces/punctuation  
**Molecular Toxicology Lab**

RATIONALE:

**Having the words 'health' and 'toxicology' side by side is unnecessary. The new title better reflects the course content. The new title emphasizes the use of molecular biology techniques assessing the nature of toxic substances on organisms.**

Does this course replicate the content of a previously approved course to such an extent that students should not receive credit for both courses? If so, this should be noted in the pre-requisite.

N/A

Effective semester and year Fall, 2010

**SIMON FRASER UNIVERSITY**  
**Senate Committee on Undergraduate Studies**  
**Course Change/Deletion Form**

Existing Course Number/Title: **HSCI 482-3 Senior Seminar in Infectious Diseases**

Please check appropriate revision(s) being recommended:

Course Number: \_\_\_\_\_ Credit Hour: \_\_\_\_\_ Title: \_\_\_\_\_

Description: \_\_\_\_\_ Prerequisite: **X** State number of hours for:  
Lect ( ) Sem ( ) Tut ( ) Lab ( )

Course deletion: \_\_\_\_\_

FROM:

Prerequisite:

HSCI majors with 90 units, including HSCI 330 and HSCI 325, or permission from instructor.

TO:

Prerequisite:

HSCI majors with 90 units, including HSCI 426 (or MBB 426) and HSCI 438, or permission from the instructor.

RATIONALE:

**HSCI 325 was renamed to HSCI/MBB 426 (Immune System I: Basis of Innate and Adaptive Immunity). HSCI 330 is considered inadequate as a pre-requisite for this course and is therefore replaced with HSCI 438 (Animal Virology), which is deemed more appropriate for students interested in Infectious Diseases.**

Does this course replicate the content of a previously approved course to such an extent that students should not receive credit for both courses? If so, this should be noted in the pre-requisite.

N/A

Effective semester and year Fall 2010

**SIMON FRASER UNIVERSITY**  
**Senate Committee on Undergraduate Studies**

**Minimum grades for current courses to count towards major**

**FROM:**

There were no minimum grades required.

**TO:**

For a course to be accepted as fulfilling a lower or upper division requirement for the BA or BSc major, or a prerequisite to a required course, a student must obtain a minimum grade of C-.

**RATIONALE:**

To demonstrate proficiency that is commensurate with a major in Health Sciences, students should perform at a C- level at a minimum.

**SIMON FRASER UNIVERSITY**  
**Senate Committee on Undergraduate Studies**

**Changes to requirements for the Minor in HSCI**

**FROM:**

**Minor Program**

Students complete at least four of

HSCI 211-4 Perspectives on Cancer, Cardiovascular, and Metabolic Diseases  
HSCI 212-4 Perspectives on Infectious and Immunological Diseases  
HSCI 214-4 Perspectives on Mental Health and Illness  
HSCI 215-4 Perspectives on Disability and Injury  
HSCI 216-4 Ecological Determinants of Human Growth, Development and Health

Students must also complete at least 15 upper division HSCI units.

**TO:**

**Minor Program**

Students complete the following

HSCI 130  
HSCI 100 or BISC 101

And three of the following

HSCI 211-3 Perspectives on Cancer, Cardiovascular, and Metabolic Diseases  
HSCI 212-3 Perspectives on Infectious and Immunological Diseases  
HSCI 214-3 Perspectives on Mental Health and Illness  
HSCI 215-3 Perspectives on Disability and Injury  
HSCI 216-3 Ecological Determinants of Human Growth, Development and Health

And at least 15 upper division HSCI units, of which at least seven units of upper division credit used toward the minor must have been completed in Simon Fraser University courses.

**RATIONALE:**

HSCI students need a basic grounding in health sciences, which HSCI 130 will provide.

HSCI students need a basic grounding in biology, which either HSCI 100 or BISC 101 will provide.

The reduction in number of 200-level HSCI courses from four to three makes HSCI minors' requirements at this level consistent with BSc majors, and is one less than required of BA students. Also, as of last year, all 200-level HSCI courses are assigned with 3 credit hours.



SIMON FRASER UNIVERSITY  
THINKING OF THE WORLD

## FACULTY OF HEALTH SCIENCES

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# MEMORANDUM

**TO:** SCUS   
**FROM:** Kitty Corbett, Director, Undergraduate Programs, Faculty of Health Sciences  
**RE:** Temporary withdrawal of HSCI 170 and HSCI 430  
**DATE:** December 17, 2009

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We are asking SCUS to approve temporary withdrawal from SFU Calendar of the following HSCI courses:

- HSCI 170 – Working for Health
- HSCI 430 Health of Vulnerable Populations

Rationale:

The courses have never been taught but there are faculty members who may want to teach it within the next few years.

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