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MEMORANDUM

ATTENTION Senate DATE March 5, 2010
FROM Bill Krane, Chair PAGES 1/1
Senate Committee on Undergraduate Studies
RE: Faculty of Health Sciences (SCUS 10-19)

For information:

Acting under delegated authority at its meeting of March 4, 2010, SCUS approved the following curriculum revisions:

1. New Course proposals:
 - HSCI 349-3, Community and Health Service
 - HSCI 407-3, International Trade Agreements and Health Policy
 - HSCI 412-3, Health Communication
 - HSCI 479-3, Seminar in Aging-Related Neurodegenerative Disease
 - HSCI 493-6, Extended Independent Research
 - HSCI 494-9, Independent Laboratory Research
2. Course deletion of HSCI 301
3. Temporary withdrawals of HSCI 303, 421
4. Credit hour and/or course number and/or description and/or prerequisites changes for HSCI 130, 401, 405, 426, 490, 491, 491, 492
5. Program changes to the BSc Program:
 - Deletion of areas of emphasis: General Studies, Environmental and Occupational Health and Infectious Diseases
 - Addition of two new Concentrations: Life Sciences, Population and Quantitative Health Sciences
 - Change in Honours Program requirements
6. Program changes to the BA Program:
 - Upper division requirements
 - Changes in Honours Program requirements
7. Addition of minimum grade requirements

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 following the posting of the agenda. If you are unable to access the information, please call 778-782-3168 or email bgrant@sfu.ca.



SIMON FRASER UNIVERSITY
THINKING OF THE WORLD

FACULTY OF HEALTH SCIENCES

PHONE (778) 782-4821
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MEMORANDUM

TO: SCUS *KYC*
 FROM: Kitty Corbett, Director, Undergraduate Programs, Faculty of Health Sciences
 DATE: Feb. 23, 2010
 RE: Faculty of Health Sciences curriculum items
 CC: Jo Hinchliffe; John O'Neil
 DATE: February 23, 2010

The Faculty of Health Sciences has approved six new HSCI courses as well as various minor changes on others, and made some revisions to our BSc and BA undergraduate curriculum. We are submitting these proposals to SCUS for consideration at its next SCUS meeting.

New Courses:

New Course Name	Course(s) to be dropped
HSCI 349-3 Community and Health Service	None
HSCI 407-3 International Trade Agreements and Health Policy	None
HSCI 412-3 Health Communication	HSCI 301
HSCI 479-3 Seminar in Aging-Related Neurodegenerative Disease	None
HSCI 493-6 Extended Independent Research	None
HSCI 494-9 Independent Laboratory Research	None

Course Changes:

Course Name	Change Type
HSCI 130-3 Foundations of Health Science	Credit Hour
HSCI 301-3 Foundations of Health Promotion and Health Communication	Course deletion
HSCI 303-3 Health and Behaviour	Temporary withdrawal from Calendar
HSCI 401-3 Health Promotion: Individuals and	Course number, description,

1

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 BLUSSON HALL, ROOM 11300,
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 BURNABY BC,
 CANADA, V5A 1S6

Communities	prerequisites
HSCI 405-3 Global Health Ethics	Course number, prerequisites
HSCI 421-3 Health Survey Methods	Temporary withdrawal from Calendar
HSCI 426-3 Immune System I: Basis of Innate and Adaptive Immunity	Credit Hour
HSCI 490-5 Research Proposal	Credit Hour
HSCI 491-5 Independent Research	Credit Hour, Description and Prerequisite
HSCI 492-5 Honors Research Thesis	Credit Hour

Program Changes:

Program Name	Change Details
BSc Program	<ul style="list-style-type: none"> • Removing the following areas of emphasis: General Studies; Environmental and Occupational Health; and Infectious Diseases • Introducing two new areas of emphasis: Life Sciences; Population and Quantitative Health Sciences • Changing Honors Program requirements to allow greater flexibility for a research-based honors thesis
BA Program	<ul style="list-style-type: none"> • Removing the requirement of either HSCI 303 or HSCI 401; instead requiring HSCI 312 • Changing Honors Program requirements to allow greater flexibility for a research-based honors thesis

Changes in Criteria for Transfers and Minimum Grade Requirement:

Change Name	Change Details
Criteria for Post-secondary Transfer and Internal Transfers into the major	CGPA of 2.25
Minimum Grade Requirement	C- or better

SIMON FRASER UNIVERSITY
Senate Committee for Undergraduate Studies
NEW COURSE PROPOSAL

Course Number: **HSCI 349-3**

Course Title: **Community and Health Service**

AND

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

Community and Health Service

State number of hours for Lect () Sem (3) Tut () Lab ()

Course Description (for Calendar). Attach a course outline to this proposal.

Multi-week service learning project with a community-based partner organization or school arranged each semester. Related class work addresses community partnerships, health promotion, reciprocity, local control, sustainability, participatory research, and skills.

Prerequisite: 45 credit hours, either HSCI 319 or HSCI 320, and HSCI 312.

Corequisite: None

Special Instructions: i.e. 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. No

Course(s) to be dropped if this course is approved: None

Rationale for Introduction of this Course:

This seminar course is intended to provide students with concepts and experiences that bridge a gap between knowledge and action in population health.

Scheduling and Registration Information:

Indicate effective semester/year course would be first offered and planned frequency of offering thereafter. **Fall 2010; Course will be offered at least once a year.**

Waiver required:

Will this be a required or elective course in the curriculum? **Elective**

What is the probable enrolment when offered? **10-20**

Which of your present CFL faculty have the expertise to offer this course?

Kitty Corbett, Nicole Berry, and others

Are there any proposed student fees associated with this course other than tuition fees? (if so, attach mandatory supplementary fee approval form) **No**

Resource Implications:

Note: Senate has approved (S.93-11) that no new course should be approved by Senate until funding has been committed for necessary library materials. Each new course proposal must be accompanied by a library report and, if appropriate, confirmation that funding arrangements have been addressed.

Campus where course will be taught: **Burnaby**

Library report status: **Approved**

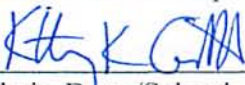
Provide details on how existing instructional resources will be redistributed to accommodate this new course. For instance, will another course be eliminated or will the frequency of offering of other courses be reduced; are there changes in pedagogical style or class sizes that allow for this additional course offering?

The Faculty of Health Sciences has hired faculty members with expertise to teach this course.

Any outstanding resource issues to be addressed prior to implementation: space, laboratory equipment, etc. **No**

Approvals

1. **Departmental approval** indicates that the Department has approved the content of the course, and has consulted with other Departments and Faculties regarding proposed course content and overlap issues.



Chair, Dept./School

Feb 23, 2010
Date

Chair, Faculty Curriculum Committee

Date

2. **Faculty approval** indicates that all the necessary course content and overlap concerns have been resolved, and that the Faculty/Department commits to providing the required Library funds.



Dean or Designate

Date: FEB 24, 2010

SIMON FRASER UNIVERSITY
Senate Committee for Undergraduate Studies
NEW COURSE PROPOSAL

Course Number: **HSCI 407-3**

Course Title: **International Trade Agreements and Health Policy**

AND

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

International Trade and Health

State number of hours for Lect (3) Sem () Tut () Lab ()

Course Description (for Calendar). Attach a course outline to this proposal.

A review of the impact of international trade agreements in shaping health policy in Canada as well as in other developed and developing countries. The impact of trade obligations in key health policy areas, including: the provision of health services, health insurance, intellectual property, pharmaceutical policy, bio-technology, the accreditation of health professionals and the ability of governments to regulate developments in the health care sector.

Prerequisite: At least 45 credit units in health sciences including HSCI 130 and HSCI 305.

Corequisite: None

Special Instructions: i.e. 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. No

Course(s) to be dropped if this course is approved: None

Rationale for Introduction of this Course:

This course is intended to provide students with a critical understanding of the objectives of international trade agreements and their impact on health policy domestically and internationally and does not duplicate similar material from any existing undergraduate or graduate courses.

Scheduling and Registration Information:

Indicate effective **semester/year** course would be first offered and planned **frequency** of offering thereafter. **Fall 2011; Course will be offered at least once a year.**

Waiver required:

Will this be a required or elective course in the curriculum? **Elective**

What is the probable enrolment when offered? **20-30**

Which of your present CFL faculty have the expertise to offer this course?

John Calvert

Are there any proposed student fees associated with this course other than tuition fees? (if so, attach mandatory supplementary fee approval form) **No**

Resource Implications:

Note: Senate has approved (S.93-11) that no new course should be approved by Senate until funding has been committed for necessary library materials. Each new course proposal must be accompanied by a library report and, if appropriate, confirmation that funding arrangements have been addressed.

Campus where course will be taught: **Burnaby**

Library report status: **Approved**

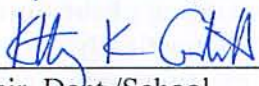
Provide details on how existing instructional resources will be redistributed to accommodate this new course. For instance, will another course be eliminated or will the frequency of offering of other courses be reduced; are there changes in pedagogical style or class sizes that allow for this additional course offering?

The Faculty of Health Sciences has hired faculty members with expertise to teach this course.

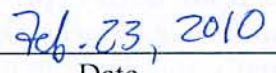
Any outstanding resource issues to be addressed prior to implementation: space, laboratory equipment, etc. **No**

Approvals

1. **Departmental approval** indicates that the Department has approved the content of the course, and has consulted with other Departments and Faculties regarding proposed course content and overlap issues.



Chair, Dept./School



Date

Chair, Faculty Curriculum Committee

Date

SIMON FRASER UNIVERSITY
Senate Committee for Undergraduate Studies
NEW COURSE PROPOSAL

Course Number: **HSCI 412-3**

Course Title: **Health Communication**

AND

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

Health Communication

State number of hours for Lect (3) Sem () Tut () Lab ()

Course Description (for Calendar). Attach a course outline to this proposal.

Theory and strategies for health communication in health systems and in particular cultural contexts. Interpersonal communication in health care, the relationship between belief and the construction of clinical realities, and communication for promoting public health. Social marketing and other strategies for health promotion targeting communities and persons of diverse cultural backgrounds. Communication about environmental and health risks.

Prerequisite: **HSCI 312 and two HSCI 200-level courses.**

CANNOT TAKE HSCI 301 FOR CREDIT.

Corequisite: **None**

Special Instructions: i.e. 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. **No**

Course(s) to be dropped if this course is approved: **HSCI 301**

Rationale for Introduction of this Course:

The Health Sciences BA program is shifting several courses around to set up a better scaffolding system of prerequisites and upper division electives. This course is very similar to what was HSCI 301 Foundations of Health Promotion and Health Communication, which we are deleting as we introduce this course. We are simultaneously moving the previous HSCI 401 Health Promotion: Individuals and Communities course to the 300 level, and it will be a prerequisite for this course.

Scheduling and Registration Information:

Indicate effective **semester/year** course would be first offered and planned **frequency** of offering thereafter. **Fall 2010; Course will be offered at least once a year.**

Waiver required:

Will this be a required or elective course in the curriculum? **Elective**

What is the probable enrolment when offered? **50-75**

Which of your present CFL faculty have the expertise to offer this course?

Kitty Corbett and Nicole Berry

Are there any proposed student fees associated with this course other than tuition fees? (if so, attach mandatory supplementary fee approval form) **No**

Resource Implications:

Note: Senate has approved (S.93-11) that no new course should be approved by Senate until funding has been committed for necessary library materials. Each new course proposal must be accompanied by a library report and, if appropriate, confirmation that funding arrangements have been addressed.

Campus where course will be taught: **Burnaby**

Library report status: **Approved**


Provide details on how existing instructional resources will be redistributed to accommodate this new course. For instance, will another course be eliminated or will the frequency of offering of other courses be reduced; are there changes in pedagogical style or class sizes that allow for this additional course offering?

As explained in the rationale above, we are deleting HSCI 301 Foundations of Health Communication and Health Promotion and substituting for it this upper division course.

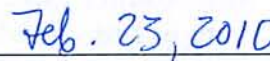
Any outstanding resource issues to be addressed prior to implementation: space, laboratory equipment, etc. **No**

Approvals

1. **Departmental approval** indicates that the Department has approved the content of the course, and has consulted with other Departments and Faculties regarding proposed course content and overlap issues.



Chair, Dept./School



Date

Chair, Faculty Curriculum Committee

Date

SIMON FRASER UNIVERSITY
Senate Committee for Undergraduate Studies
NEW COURSE PROPOSAL

Course Number: HSCI 479-3

Course Title: Seminar in Aging-Related Neurodegenerative Disease

AND

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

Seminar in NeuroDisorders

State number of hours for Lect () Sem (3) Tut () Lab ()

Course Description (for Calendar). Attach a course outline to this proposal.

Molecular and cellular mechanisms underlying the pathogenesis of aging-related neurodegenerative diseases, and translational, bench-to-bedside, research topics related to therapeutic strategies and outcomes.

Prerequisite: MBB 331 and HSCI 321.

Corequisite: None

Special Instructions: i.e. 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. No

Course(s) to be dropped if this course is approved: None

Rationale for Introduction of this Course:

This seminar course is intended to provide students with concepts and knowledge that bridge a gap between molecules and population in health science, as well as provide in-depth understanding of current advances in basic and translational research in neurological diseases. The creation of this course reflects the enhancement of expertise and student interest in chronic aging-related diseases by the Faculties of Science and Health Sciences. This course has a strong connection with priority areas in the SFU Strategic Research Plan 2010-2015.

Scheduling and Registration Information:

Indicate effective semester/year course would be first offered and planned frequency of offering thereafter. **Spring 2011; Course will be offered once a year.**

Waiver required:

Will this be a required or elective course in the curriculum? **Elective**

What is the probable enrolment when offered? **10-20**

Which of your present CFL faculty have the expertise to offer this course?

Takako Niikura

Are there any proposed student fees associated with this course other than tuition fees? (if so, attach mandatory supplementary fee approval form) **No**

Resource Implications:

Note: Senate has approved (S.93-11) that no new course should be approved by Senate until funding has been committed for necessary library materials. Each new course proposal must be accompanied by a library report and, if appropriate, confirmation that funding arrangements have been addressed.

Campus where course will be taught: **Burnaby**

Library report status: **Approved**

Provide details on how existing instructional resources will be redistributed to accommodate this new course. For instance, will another course be eliminated or will the frequency of offering of other courses be reduced; are there changes in pedagogical style or class sizes that allow for this additional course offering?

The Faculty of Health Sciences has hired faculty members with expertise to teach this course.

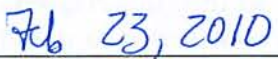
Any outstanding resource issues to be addressed prior to implementation: space, laboratory equipment, etc. **No**

Approvals

1. **Departmental approval** indicates that the Department has approved the content of the course, and has consulted with other Departments and Faculties regarding proposed course content and overlap issues.



Chair, Dept./School



Date

Chair, Faculty Curriculum Committee

Date

SIMON FRASER UNIVERSITY
Senate Committee for Undergraduate Studies
NEW COURSE PROPOSAL

Course Number: HSCI 493-6

Course Title: Extended Independent Research

AND

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

Extended Independent Research

State number of hours for Lect () Sem () Tut () Lab ()

Course Description (for Calendar). Attach a course outline to this proposal.

Independent research for the honors thesis. Three courses, HSCI 490-3, HSCI 492-3, and either 491-3, HSCI 493-6, or HSCI 494-9, together form the coursework for the honors thesis. This 6-credit option is for students who will devote about half time to their research during the semester. Limited to honors students upon written agreement of the faculty supervisor.

Prerequisite: HSCI 490-3. Cannot get credit for HSCI 491-3 or HSCI 494-9.

Corequisite: None

Special Instructions: i.e. 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. No

Course(s) to be dropped if this course is approved: None

Rationale for Introduction of this Course:

This independent research course for 6 credits is intended to allow students doing research for the honors thesis to get credit for an extended amount of work. This and other options for the honors thesis research provide flexibility to accommodate the diverse needs of students doing different projects of varying scope in many different sub-disciplines.

Scheduling and Registration Information:

Indicate effective semester/year course would be first offered and planned frequency of offering thereafter. Fall 2010; Course will be offered at least once a year.

Waiver required:

Will this be a required or elective course in the curriculum? **Elective**

What is the probable enrolment when offered? **10-20**

Which of your present CFL faculty have the expertise to offer this course?

Any

Are there any proposed student fees associated with this course other than tuition fees? (if so, attach mandatory supplementary fee approval form) No

Resource Implications:

Note: Senate has approved (S.93-11) that no new course should be approved by Senate until funding has been committed for necessary library materials. Each new course proposal must be accompanied by a library report and, if appropriate, confirmation that funding arrangements have been addressed.

Campus where course will be taught: **Burnaby**

Library report status: **Approved**

Provide details on how existing instructional resources will be redistributed to accommodate this new course. For instance, will another course be eliminated or will the frequency of offering of other courses be reduced; are there changes in pedagogical style or class sizes that allow for this additional course offering? **The Faculty of Health Sciences has faculty members with expertise to teach this course.**

Any outstanding resource issues to be addressed prior to implementation: space, laboratory equipment, etc. No

Approvals

1. **Departmental approval** indicates that the Department has approved the content of the course, and has consulted with other Departments and Faculties regarding proposed course content and overlap issues.

Kathy Goh
Chair, Dept./School

Feb 24, 2010
Date

Chair, Faculty Curriculum Committee

Date

2. **Faculty approval** indicates that all the necessary course content and overlap concerns have been resolved, and that the Faculty/Department commits to providing the required Library funds.

John [Signature]
Dean or Designate

Date: FEB 24, 2010

List which other Departments and Faculties have been consulted regarding the proposed course content including overlap issues. *Attach documentary evidence of responses.*

All

SIMON FRASER UNIVERSITY
Senate Committee for Undergraduate Studies
NEW COURSE PROPOSAL

Course Number: HSCI 494-9

Course Title: Independent Laboratory Research

AND

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

Independent Lab Research

State number of hours for Lect () Sem () Tut () Lab (9)

Course Description (for Calendar). Attach a course outline to this proposal.

Independent laboratory-based research for the honors thesis. Three courses, HSCI 490-3, HSCI 492-3, and either 491-3, HSCI 493-6, or HSCI 494-9, together form the coursework for the honors thesis. This 9-credit option is for students whose research requires close to full-time work in the laboratory during the semester. Limited to honors students upon written agreement of the faculty supervisor.

Prerequisite: HSCI 490-3 Research Proposal. Cannot get credit for HSCI 491-3 or HSCI 493-6.

Corequisite: None

Special Instructions: i.e. 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. No

Course(s) to be dropped if this course is approved: None

Rationale for Introduction of this Course:

This independent research course for 9 credits is intended to allow students doing laboratory-based research for the honors thesis to get credit for an extended amount of work. The experience of instructors who supervise such students is that they put in very long hours, often equivalent to full-time work, in the lab while accomplishing the research for the thesis. This and other options for the honors thesis research provide flexibility to accommodate the diverse needs of students doing different projects of varying scope in many different sub-disciplines.

Scheduling and Registration Information:

Indicate effective semester/year course would be first offered and planned frequency of offering thereafter. Fall 2010; Course will be offered at least once a year.

Waiver required:

Will this be a required or elective course in the curriculum? Elective

What is the probable enrolment when offered? **10-20**

Which of your present CFL faculty have the expertise to offer this course?
Any

Are there any proposed student fees associated with this course other than tuition fees? (if so, attach mandatory supplementary fee approval form) **No**

Resource Implications:

Note: Senate has approved (S.93-11) that no new course should be approved by Senate until funding has been committed for necessary library materials. Each new course proposal must be accompanied by a library report and, if appropriate, confirmation that funding arrangements have been addressed.

Campus where course will be taught: **Burnaby**

Library report status: **Approved**

Provide details on how existing instructional resources will be redistributed to accommodate this new course. For instance, will another course be eliminated or will the frequency of offering of other courses be reduced; are there changes in pedagogical style or class sizes that allow for this additional course offering?
The Faculty of Health Sciences has faculty members with expertise to teach this course.

Any outstanding resource issues to be addressed prior to implementation: space, laboratory equipment, etc.
No

Approvals

1. **Departmental approval** indicates that the Department has approved the content of the course, and has consulted with other Departments and Faculties regarding proposed course content and overlap issues.



Chair, Dept./School

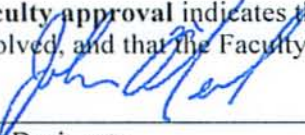
Feb. 23, 2010

Date

Chair, Faculty Curriculum Committee

Date

2. **Faculty approval** indicates that all the necessary course content and overlap concerns have been resolved, and that the Faculty/Department commits to providing the required Library funds.



Dean or Designate

Date: FEB 24, 2010

List which other Departments and Faculties have been consulted regarding the proposed course content including overlap issues. *Attach documentary evidence of responses.*

All

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

Existing Course Number/Title: **HSCI 301-3 Foundations of Health Promotion and Health Communication**

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:

This elective is being deleted as part of updating the Health Sciences BA curriculum. We are replacing it with a 400-level elective, HSCI 412 Health Communication, and moving HSCI 401 Health Promotion: Individuals and Communities to be a 300-level required course (HSCI 312). HSCI 312 is a logical prerequisite for the new HSCI 412. The new order of these offerings is more logical than what we have done to date.

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
THINKING OF THE WORLD

FACULTY OF HEALTH SCIENCES

PHONE (778) 782-4821
FAX (778) 782-5927

MEMORANDUM

TO: SCUS

FROM: Kitty Corbett, Director, Undergraduate Programs, Faculty of Health Sciences *KKC*

RE: Temporary withdrawal of HSCI 303 and HSCI 421

DATE: February 23, 2010

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

- HSCI 303 – Perspectives on Behavioral Risks
- HSCI 421 – Health Survey Methods

Rationale:

The courses have been infrequently taught but there are faculty members who may want to teach them within the next few years.

FACULTY OF HEALTH SCIENCES
BLUSSON HALL, ROOM 11300,
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BURNABY BC,
CANADA, V5A 1S6

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

Existing Course Number/Title: **HSCI 130-3 Foundations of Health Science**

Please check appropriate revision(s) being recommended:

Course Number: _____ Credit Hour: **X** Title: _____

Description: _____ Prerequisite: _____ State number of hours for:
Lect (**3**) Sem () Tut (**1**) Lab ()

Course deletion: _____

FROM:

HSCI 130-3 Foundations of Health Science

TO:

HSCI 130-4 Foundations of Health Science

RATIONALE:

HSCI 130, required of all entering HSCI majors and a prerequisite for most courses in the major, is currently a 3 credit course. It already involves 4 contact hours per week which, along with the fact that the workload is heavy in order to cover the material, suggests that it be a 4 credit 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 **Fall, 2010**

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

Existing Course Number/Title: **HSCI 401-3 Health Promotion: Individuals and Communities**

Please check appropriate revision(s) being recommended:

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

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

Course deletion:

FROM:

HSCI 401-3

Behaviour modification strategies and their applications in risk reduction, health promotion, and disease prevention. New approaches in behavior modification – new media and new technology. Prerequisite: 60 units, including either HSCI 130 or KIN 140.

TO:

HSCI 312-3

Theoretical frameworks and their applications in health promotion and disease prevention. The development, implementation, and evaluation of programs aimed at individuals and communities in Canada and globally.

Prerequisite: 60 units, including either HSCI 130 or KIN 140. Students who have completed HSCI 401 prior to fall 2010 may not receive credit for this course.

RATIONALE:

The Health Sciences BA program is shifting several courses around to set up a better scaffolding system of prerequisites and upper division electives. This course is best offered at a 300 level, as it provides basic content for subsequent courses. The revised description better reflects the way this course is being taught. This HSCI 312 course will be a prerequisite for the new HSCI 412 Health Communication 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.

Since this is essentially the same course that has been taught until now as HSCI 401, students should be able to receive credit for only one of them, either HSCI 401 or HSCI 312.

Effective semester and year **Fall 2010**

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

Existing Course Number/Title: **HSCI 405 -3 Global Health Ethics**

Please check appropriate revision(s) being recommended:

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

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

Course deletion:

FROM:

HSCI 405-3 Global Health Ethics

Prerequisite: 60 credit hours of completed course work and HSCI 319 or PHIL 319 or PHIL 120

TO:

HSCI 320-3 Global Health Ethics

Prerequisite: 60 credit hours of completed course work and PHIL 120W
CANNOT TAKE CREDIT FOR HSCI 319

RATIONALE:

We would like to give our undergraduate students one instead of two options for completing their ethics requirement for the major. HSCI 319W will remain one option, but we would like to make an existing course, HSCI 405, a second option for fulfilling this requirement. The prerequisite needs to be changed to reflect the intention that this course is an alternative to HSCI 319. With PHIL 120 now as a prerequisite, students in HSCI 320 will have some background in ethics before taking the class.

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 426-3 Immune System I: Basis of Innate and Adaptive Immunity**

Please check appropriate revision(s) being recommended:

Course Number: _____ Credit Hour: X Title: _____

Description: _____ Prerequisite: _____ State number of hours for:
Lect (3) Sem () Tut (1) Lab ()

Course deletion: _____

FROM:

~~HSCI 130-3 Foundations of Health Science~~ SEE CURRENT COURSE

TO:

HSCI 426-4 Immune System I: Basis of Innate and Adaptive Immunity

RATIONALE:

HSCI 426 is currently a 3 credit course. It already involves 4 contact hours per week which, along with the fact that the workload is heavy in order to cover the material, suggests that it be a 4 credit course. This cross is cross-listed with MBB 426, and the change is being done for that course as well.

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 490-5 Research Proposal**

Please check appropriate revision(s) being recommended:

Course Number: _____ Credit Hour: **X** Title: _____

Description: _____ Prerequisite: _____ State number of hours for:
Lect (3) Sem () Tut (1) Lab ()

Course deletion: _____

FROM:

HSCI 490-5 Research Proposal

TO:

HSCI 490-3 Research Proposal

RATIONALE:

As part of ongoing improvements to Health Sciences' still new curriculum, we are making modifications to the units offered for several courses required for completion of the Honors Program. Our experience has now shown that 3 units are sufficient for this 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 **Fall, 2010**

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

Existing Course Number/Title: **HSCI 491-5 Independent Research**

Please check appropriate revision(s) being recommended:

Course Number: _____ Credit Hour: **X** Title: _____

Description: **X** Prerequisite: **X** State number of hours for:
Lect (3) Sem () Tut (1) Lab ()

Course deletion: _____

FROM:

HSCI 491-5 Independent Research

Description:

Research proposal for the honors thesis. HSCI 490, 491 and 492 together form the honors thesis. Limited to honors students upon written agreement of the faculty supervisor.

Prerequisite/corequisite: HSCI 490.

Prerequisite/corequisite:

HSCI 490.

TO:

HSCI 491-3 Independent Research

Description:

Research for the honors thesis. HSCI 490, 491 and 492 together form the honors thesis. Limited to honors students upon written agreement of the faculty supervisor.

Prerequisite/corequisite: HSCI 490. Students with credit for HSCI 493 or HSCI 494 may not take HSCI 491 for further credit.

RATIONALE:

We are adding flexibility to the research segment of Honors Program. We are reducing the units for HSCI 491 to 3, but adding two additional courses (HSCI 493-6 and HSCI 494-9) as well. Description change is a correction of course description which was in error.

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 492-5 Honors Research Thesis**

Please check appropriate revision(s) being recommended:

Course Number: _____ Credit Hour: **X** Title: _____

Description: _____ Prerequisite: _____ State number of hours for:
Lect (3) Sem () Tut (1) Lab ()

Course deletion: _____

FROM:

HSCI 492-5 Honors Research Thesis

TO:

HSCI 492-3 Honors Research Thesis

RATIONALE:

As part of ongoing improvements to Health Sciences' still new curriculum, we are making modifications to the units offered for several courses required for completion of the Honors Program. Our experience has now shown that 3 units are sufficient for this 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 **Fall, 2010**



SIMON FRASER UNIVERSITY
THINKING OF THE WORLD

FACULTY OF HEALTH SCIENCES

PHONE (778) 782-4821
FAX (778) 782-5927

MEMORANDUM

TO: SCUS

FROM: Kitty ^{KKC} Corbett, Director, Undergraduate Programs, Faculty of Health Sciences

RE: Change in BSc Program Requirements

DATE: February 23, 2010

We are asking SCUS to consider approval of the following change in BSc Program Requirements:

FROM

Bachelor of Science Program

This program incorporates basic science courses (biology, chemistry, molecular biology and statistics) with courses about health and disease from the health sciences core. Building on a solid base of basic biomedical and applied health science, students will receive advanced training in pharmacology, toxicology, pathophysiology and epidemiology, as well as molecular biology and genetics.

Within the BSc program, students choose from three areas of emphasis: general studies; environmental and occupational health; or infectious diseases. Each includes a solid basis in the biomedical sciences.

Major Program

This bachelor of science degree requires 120 units of required and elective courses, prerequisites, plus other electives to meet the University's writing, quantitative and

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breadth (WQB) requirements (see "Writing, Quantitative, and Breadth Requirements" on page 7).

The general studies area of emphasis requires a minimum of 41 units of upper division courses. The environmental and occupational health area of emphasis requires 48 upper division units, while the infectious diseases area of emphasis requires 46 upper division units.

Lower Division Requirements

Students complete all of
BISC 101-4 General Biology I
BISC 102-4 General Biology II
BISC 202-3 Genetics
CHEM 121-4 General Chemistry and Laboratory I
CHEM 122-2 General Chemistry II
CHEM 281-4 Organic Chemistry I
CHEM 282-2 Organic Chemistry II
HSCI 130-3 Foundations of Health Science
MBB 222-3 Biochemistry and Molecular Biology
MBB 231-3 Cellular Biology and Biochemistry

Recommended Electives

KIN 105-3 Fundamentals of Human Structure and Function
KIN 142-3 Introduction to Kinesiology
MATH 154-3 Calculus I for the Biological Sciences
PHYS 101-3 Physics for the Life Sciences I
PSYC X99W-3 Brain, Mind and Society

Additional lower division courses are required for each of the three BSc areas of emphasis below.

Upper Division Requirements

Students complete all of
HSCI 305-3 The Canadian Health System
HSCI 321-3 Human Pathophysiology
HSCI 324-3 Human Population Genetics and Evolution
HSCI 330-3 Exploratory Strategies in Epidemiology
MBB 331-3 Molecular Biology

and one of
HSCI 319-3 Applied Health Ethics
PHIL 319-3 Applied Health Ethics

Additional upper division courses are required for each of the three BSc areas of emphasis as listed below.

General Studies Area of Emphasis

In addition to the lower and upper division requirements, the following courses are required.

Lower Division Requirements

Students complete at least three of

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 one of

STAT 201-3 Statistics for the Life Sciences
STAT 203-3 Introduction to Statistics for the Social Sciences

Upper Division Requirements

Students complete

STAT 302-3 Analysis of Experimental and Observational Data

and at least one of the following sets

either all of

HSCI 310-3 Techniques for Population Health Research
HSCI 422-3 Diffusion Pathways in the Spread of Disease
HSCI 424-3 Strategic Applications of GIS in Health

or all of

BISC 303-4 Microbiology
HSCI 426-3 Immune System I: Basis of Innate and Adaptive Immunity
MBB 308-3 Molecular Biology and Biochemistry Lab I

or all of

HSCI 304-3 Perspectives on Environmental Health
HSCI 323-3 Principles of Pharmacology and Toxicology
HSCI 476-3 Seminar in Molecular Basis of Drug Action and Environmental Exposure

and at least one of

HSCI 427-3 Immune System II: Immune Responses in Health and Disease
HSCI 432-3 Infectious Disease Epidemiology
HSCI 474-3 Seminar in Neuropharmacology
HSCI 475-3 Seminar in Molecular Mechanisms of Epigenetics
HSCI 476-3 Seminar in Molecular Basis of Drug Action and Environmental Exposure
HSCI 477-3 Seminar in Vaccine Immunology
HSCI 478-3 Seminar in Molecular Epidemiology of Infectious Diseases
HSCI 482-3 Senior Seminar in Infectious Diseases
HSCI 483-3 Senior Seminar in Environmental Health

HSCI 484-3 Senior Seminar in Population Health Research

In addition, students must also complete a minimum of two additional upper division HSCI courses that will total a minimum of six units.

Environmental and Occupational Health Area of Emphasis

In addition to the lower and upper division requirements, the following courses are required for students pursuing this area of emphasis.

Lower Division Requirements

Students complete all of

HSCI 211-3 Perspectives on Cancer, Cardiovascular and Metabolic Diseases
HSCI 216-3 Ecological Determinants of Human Growth, Development and Health
STAT 201-3 Statistics for the Life Sciences

and one of

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

Upper Division Requirements

Students complete all of

BISC 313-3 Environmental Toxicology II
HSCI 304-3 Perspectives on Environmental Health
HSCI 323-3 Principles of Pharmacology and Toxicology
HSCI 443-4 Environmental Health Toxicology Lab
MBB 308-3 Molecular Biology and Biochemistry Lab
STAT 302-3 Analysis of Experimental and Observational data

and at least one of

HSCI 474-3 Seminar in Neuropharmacology
HSCI 475-3 Seminar in Molecular Mechanisms of Epigenetics
HSCI 476-3 Seminar in Molecular Basis of Drug Action and Environmental Exposure
HSCI 483-3 Senior Seminar in Environmental Health

In addition, students must also complete a minimum of three additional upper division HSCI units as electives.

Infectious Diseases Area of Emphasis

In addition to the lower and upper division requirements, the following courses are required for students pursuing this area of emphasis.

Lower Division Requirements

Students complete all of

HSCI 212-3 Perspectives on Infectious and Immunological Diseases
HSCI 216-3 Ecological Determinants of Human Growth, Development and Health
STAT 201-3 Statistics for the Life Sciences

and one of
HSCI 211-3 Perspectives on Cancer, Cardiovascular and Metabolic Diseases
HSCI 214-3 Perspectives on Mental Health and Illness
HSCI 215-3 Perspectives on Disability and Injury

Upper Division Requirements

Students complete all of
BISC 303-4 Microbiology
HSCI 426-3 Immune System I: Basis of Innate and Adaptive Immunity
HSCI 438-3 Animal Virology
MBB 308-3 Molecular Biology and Biochemistry Lab I
STAT 302-3 Analysis of Experimental and Observational Data
and at least one of
HSCI 441-4 Virology Laboratory
HSCI 442-4 Immunology Laboratory

and at least one of
HSCI 427-3 Immune System II: Immune Responses in Health and Disease
HSCI 432-3 Infectious Disease Epidemiology
HSCI 439-3 Pathogenesis of Human and Animal Viral Infectious Diseases
HSCI 477-3 Seminar in Vaccine Immunology
HSCI 478-3 Seminar in Molecular Epidemiology of Infectious Diseases
HSCI 482-3 Senior Seminar in Infectious Diseases

In addition, students must also complete a minimum of three additional upper division HSCI units as electives.

Honors Program

A 3.0 cumulative grade point average (CGPA) and a 3.0 upper division grade point average (GPA) is required for entry and must be maintained for graduation. Students must complete at least 132 units and meet all the requirements for the major program.

Also required is an honors thesis, based on independent research under the direction of a faculty member. Students will complete all of

HSCI 490-5 Research Proposal
HSCI 491-5 Independent Research
HSCI 492-5 Honors Research Thesis

Students who obtain both a program and graduation GPA of 3.5 are eligible for the designation first class.

TO

Bachelor of Science Program

This program incorporates training in the sciences (biology, chemistry, molecular biology and mathematics) with coursework on health, disease, and health systems. Within the

BSc program, students choose from two areas of emphasis: Life Sciences or Population and Quantitative Health Sciences (PQHS). The Life Sciences area of emphasis focuses on biomedical sciences; students receive training in human development, pharmacology, toxicology, pathophysiology, immunology, virology, molecular biology and epigenetics. The PQHS area of emphasis focuses on epidemiology and public health sciences with training in applied modelling.

Writing, Quantitative and Breadth Requirements

Students completing degree programs must fulfil writing, quantitative and breadth requirements as part of their program. See "Writing, Quantitative and Breadth Requirements" on page 7 for information.

Major Program

This Bachelor of Science degree requires 120 units of required, prerequisite and elective courses. Students must complete all lower and upper division requirements

Life Sciences ~~Area of Emphasis~~ CONCENTRATION

Lower Division Requirements (44 units)

Students complete all of
BISC 101-4 General Biology I
BISC 102-4 General Biology II
BISC 202-3 Genetics W
CHEM 121 -4 General Chemistry and Laboratory I
CHEM 122 -2 General Chemistry II
CHEM 281 -4 Organic Chemistry I
CHEM 282 -2 Organic Chemistry II
HSCI 130-3 Foundations of Health Science
MATH 154 -3 Calculus I for the Biological Sciences
MATH 155 -3 Calculus II for the Biological Sciences
MBB 222-3 Biochemistry and Molecular Biology
MBB 231-3 Cellular Biology and Biochemistry
PHYS 101 -3 Physics for the Life Sciences I

and one of

STAT 201-3 Statistics for the Life Sciences
STAT 203-3 Introduction to Statistics for the Social Sciences

and two of

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

*Upper Division Requirements
(46 units minimum)*

Students complete all of
HSCI 305-3 The Canadian Health System
HSCI 324-3 Human Population Genetics and Evolution
HSCI 330-3 Exploratory Strategies in Epidemiology
HSCI 321-3 Human Pathophysiology
MBB 308-3 Molecular Biology Laboratory
MBB 331-3 Molecular Biology
STAT 302-3 Analysis of Experimental and Observational Data

and one of
HSCI 319W-3 Applied Health Ethics
PHIL 319W-3 Applied Health Ethics
HSCI 320-3 Global Health Ethics

Students must complete a minimum of at least seven of the following courses, which include a minimum of one as indicated by #, a minimum of one indicated by % and a minimum of two indicated by *.

BISC 300-3 Evolution
BISC 302-3 Genetic Analysis
BISC 303-4 Microbiology
BISC 304-3 Animal Ecology
BISC 313-3 Environmental Toxicology
BISC 333-3 Developmental Biology
BISC 405-3 Neurobiology
BISC 418-3 Parasitology
BISC 422-3 Population Genetics
BISC 441-3 Evolution of Health and Disease

CHEM 360-3 Thermodynamics and Chemical Kinetics
CHEM 371-3 Chemistry of the Aqueous Environment
CHEM 372-3 Chemistry of the Atmospheric Environment

HSCI 323-3 Principles of Pharmacology and Toxicology#
HSCI/MBB 426-3 Immune System I: Basis of Innate and Adaptive Immunity#
HSCI/MBB 427-3 Immune System II: Immune Response in Health and Disease*
HSCI 438-3 Animal Virology#
HSCI 439-3 Pathogenesis of Human and Animal Viral Infectious Diseases*
HSCI 440-4 Cell Pathophysiology Laboratory%
HSCI 441-4 Virology Laboratory%
HSCI 442-4 Immunology Laboratory%
HSCI 443-4 Molecular Toxicology Laboratory%
HSCI 474-3 Seminar in Neuropharmacology*
HSCI 475-3 Seminar in Molecular Mechanisms of Epigenetics*
HSCI 476-3 Seminar in Molecular Basis of Drug Action and Environmental Exposure*
HSCI 477-3 Seminar in Vaccine Immunology*
HSCI 478-3 Seminar in Molecular Epidemiology of Infectious Diseases*

HSCI 479-3 Seminar in Aging-Related Neurodegenerative Disease*
HSCI 482-3 Senior Seminar in Infectious Diseases*

KIN 305-3 Human Physiology I
KIN 306-3 Human Physiology II
KIN 407-3 Human Physiology Laboratory
KIN 412-3 Molecular and Cellular Cardiology
KIN 431-3 Environmental Carcinogenesis
KIN 446-3 Neurological Disorders

MBB 309-4 Biochemistry Laboratory
MBB 321-3 Intermediary Metabolism
MBB 322-3 Molecular Physiology
MBB 323-3 Introduction to Physical Biochemistry
MBB 421-3 Nucleic Acids
MBB 422-3 Biomembranes
MBB 423-3 Protein Structure and Function
MBB 424-3 Membrane Transport Mechanisms
MBB 428-3 Molecular Mechanisms of Microbial Pathogenesis
MBB 430-3 Mechanisms of Secretory Transport
MBB 431-3 Cells and Disease
MBB 432-3 Advanced Molecular Biology Techniques
MBB 435-3 Genome Biology
MBB 436-3 Gene Expression
MBB 437-3 Selected Topics in Signal Transduction
MBB 438-3 Human Molecular Genetics
MBB 441-3 Bioinformatics
MBB 442-3 Proteomics
MBB 443-3 Protein Biogenesis and Degradation
MBB 444-3 Developmental Neurobiology

PHYS 347-3 Introduction to Biological Physics
PHYS 433-3 Biological Physics Laboratory

REM 445-3 Environmental Risk Assessment

Although many variations are possible, those with BC high school chemistry 12, mathematics 12, and physics 12 (or equivalents) might complete the following typical program in the lower division.

Term 1
BISC 101-4 or 102-4
CHEM 121-4
HSCI 130-3
MATH 154-3

Term 2
BISC 101-4 or 102-4
CHEM 122-2
CHEM 281-4

MATH 153-3

Term3

BISC 202-3

MBB 222-3

PHYS 101-3

HSCI 211-3

Term4

CHEM 282-2

HSCI 212-3

MBB 231-3

STAT 201-3

Students enrolled in the Fall semester in the Life Science program in the Faculty of Health Sciences should complete CHEM 281-3 in the Spring semester during the first year of enrollment.

Population and Quantitative Health Sciences ~~Area of Emphasis~~ CONCENTRATION

*Lower Division Requirements
(46 units minimum)*

Students complete all of

BISC 101-4 General Biology I

BISC 102 -4 - General Biology II

BISC 202-3 Genetics

HSCI 130-3 Foundations of Health Science

MATH 154-3 - Calculus I for the Biological Sciences

And at least five of

CHEM 121-4 General Chemistry and Laboratory I

CHEM 122-2 General Chemistry II

CHEM 281-4 Organic Chemistry I

CHEM 282-2 Organic Chemistry II

CMPT 126-3 Introduction to Computer Science and Programming

ECON 104-3 Economics and Government

MATH 155-3 Calculus II for the Biological Sciences

PHYS 101-3 Physics for the Life Sciences I

and one of

ENGL 199-3 Introduction to University Writing

PHIL 120-3 Introduction to Moral Philosophy

and one of

STAT 201-3 Statistics for the Life Sciences

STAT 203-3 Introduction to Statistics for the Social Sciences

and at least three 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

*Upper division requirements
(42 units minimum)*

Students complete all of
HSCI 305-3 The Canadian Health System
HSCI 307-3 Research Methods in Health Sciences
HSCI 324-3 Human Population Genetics and Evolution
HSCI 330-3 Exploratory Strategies in Epidemiology
HSCI 484-3 Senior Seminar in Population Health Research
STAT 302-3 Analysis of Experimental and Observational Data

and one of
HSCI 319W-3 Applied Health Ethics
PHIL 319W-3 Applied Health Ethics
HSCI 320-3 Global Health Ethics

and at least six of the following courses, which include a minimum of one as indicated by #

BISC 441-3 Evolution in health and disease
BISC 422-3 Population Genetics
HSCI 304-3 Perspectives on Environmental Health
HSCI 340-3 Social Determinants of Health
HSCI 410-3 Exploratory Data Analysis #
HSCI 424-4 Strategic Applications of GIS in Health #
HSCI 431-3 The Global HIV/AIDS Epidemic
HSCI 432-3 Infectious Disease Epidemiology #
HSCI 478-3 Seminar in Molecular Epidemiology of Infectious Diseases #
HSCI 481-3 Senior Seminar in Social Health Science
HSCI 483-3 Senior Seminar in Environmental Health
HSCI 485-3 Senior Seminar in Mental Health and Addictions
HSCI 486-3 Senior Seminar in Global Health

MBB 435-3 Genome Biology
MBB 441-3 Bioinformatics
REM 412-3 Environmental Modeling
SA 355 -4 Quantitative Methods #

and a minimum two additional upper division HSCI courses (6 units minimum)

Honors Program

A minimum CGPA of 3.00 on all relevant measures (CGPA, upper division grade point average, Health Sciences major grade point average) is required for entry and must be maintained for graduation with honors.

Students who obtain both a program and graduation GPA of 3.5 are eligible for the designation first class.

Entry into the program requires sponsorship by a mentor from among Health Sciences faculty and approval of the Undergraduate Studies Committee. Students must complete at least 132 units and meet all the requirements for the major. Also required are 9 to 15 course credit hours for a research-based honors thesis carried out under the direction of a faculty Supervisor, as follows:

HSCI 490-3 Research Proposal
HSCI 491-3 Independent Research or HSCI 493-6 Extended Independent Research
HSCI 492-3 Honours Thesis

or

HSCI 490-3 Research Proposal
HSCI 494-9 Independent Laboratory Research
HSCI 492-3 Honours Thesis

RATIONALE

The revised BSc curriculum has two streams. The Life Sciences stream has been designed to give students a strong training in core biological disciplines along with foundation coursework addressing epidemiology and the social determinants of health. In contrast, the Population and Quantitative Health Sciences stream focuses on epidemiology and applied modeling for public health. The aim of the revised curriculum is to provide a rigorous educational experience for BSc majors and yield graduates with a multidisciplinary perspective on human health. The curriculum has been developed in order to streamline students' progress from lower to upper division coursework, taking into account the need for building fundamentals and enabling students to enroll in a wide variety of advanced courses in the upper division.

We are providing our undergraduate students with two options for completing their ethics requirement for the major. HSCI 319W will remain one option, and we are making an existing course, HSCI 405, a second option for fulfilling this requirement. This will facilitate smaller class sizes (we currently have about 150 students taking the 319 course each semester) and more choice for students.

Experience with BSc honors students has shown that we need greater flexibility in the courses we require them to take to finish the thesis. Some need a full semester of laboratory work, and some less time for their independent research. Students now have the option, with permission of their supervisor, of completing their thesis work with 9, 12, or 15 units, depending on the arrangement they make with their supervisor.



SIMON FRASER UNIVERSITY
THINKING OF THE WORLD

FACULTY OF HEALTH SCIENCES

PHONE (778) 782-4821

FAX (778) 782-5927

MEMORANDUM

TO: SCUS
FROM: Kitty Corbett, Director, Undergraduate Programs, Faculty of Health Sciences *KKC*
RE: Change in BA Program Requirements
DATE: February 23, 2010

We are asking SCUS to consider approval of the following change in BA Program Requirements:

FROM

Upper Division Requirements

Students complete all of

HSCI 304-3 Perspectives on Environmental Health
HSCI 305-3 The Canadian Health System
HSCI 307-3 Research Methods in Health Sciences
HSCI 330-3 Exploratory Strategies in Epidemiology
HSCI 340-3 Social Determinants of Health
STAT 302-3 Analysis of Experimental and Observational Data

and one of

HSCI 303-3 Perspectives on Behavioral Risks
HSCI 401-3 Health Promotion: Individuals and Communities

and one of

HSCI 319-3 Applied Health Ethics
PHIL 319-3 Applied Health Ethics

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BURNABY BC,
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and one of
HSCI 481-3 Senior Seminar in Social Health Science
HSCI 482-3 Senior Seminar in Infectious Diseases
HSCI 483-3 Senior Seminar in Environmental Health
HSCI 484-3 Senior Seminar in Population Health Research
HSCI 485-3 Senior Seminar in Mental Health and Addictions
HSCI 486-3 Senior Seminar in Global Health

plus a minimum of six additional upper division courses related to the major, including at least 12 HSCI units.

Honors Program

A 3.0 cumulative grade point average (CGPA) and a 3.0 upper division grade point average (GPA) is required for entry and must be maintained to graduate. Students must complete at least 132 units and meet all the requirements for the major program.

Also required is an honors thesis, based on independent research under the direction of a faculty member. Students will complete all of

HSCI 490-5 Research Proposal
HSCI 491-5 Independent Research
HSCI 492-5 Honors Research Thesis

Students who obtain both a program and graduation GPA of 3.5 are eligible for the designation first class.

TO

Upper Division Requirements

Students complete all of

HSCI 304-3 Perspectives on Environmental Health
HSCI 305-3 The Canadian Health System
HSCI 307-3 Research Methods in Health Sciences
HSCI 312-3 Health Promotion: Individuals and Communities
HSCI 330-3 Exploratory Strategies in Epidemiology
HSCI 340-3 Social Determinants of Health
STAT 302-3 Analysis of Experimental and Observational Data

and one of
HSCI 319W-3 Applied Health Ethics
PHIL 319W-3 Applied Health Ethics
HSCI 320-3 Global Health Ethics

and one of
HSCI 481-3 Senior Seminar in Social Health Science
HSCI 482-3 Senior Seminar in Infectious Diseases
HSCI 483-3 Senior Seminar in Environmental Health

HSCI 484-3 Senior Seminar in Population Health Research
HSCI 485-3 Senior Seminar in Mental Health and Addictions
HSCI 486-3 Senior Seminar in Global Health

plus a minimum of six additional upper division courses related to the major, including at least 12 HSCI units.

Honors Program

A minimum CGPA of 3.00 on all relevant measures (CGPA, upper division grade point average, Health Sciences major grade point average) is required for entry and must be maintained for graduation with honors.

Students who obtain both a program and graduation GPA of 3.5 are eligible for the designation first class.

Entry into the program requires sponsorship by a mentor from among Health Sciences faculty and approval of the Undergraduate Studies Committee. Students must complete at least 132 units and meet all the requirements for the major. Also required are 9 to 12 course credit hours for a research-based honors thesis carried out under the direction of a faculty Supervisor, as follows:

HSCI 490-3 Research Proposal
HSCI 491-3 Independent Research or HSCI 493-6 Extended Independent Research
HSCI 492-3 Honours Thesis

RATIONALE

The Health Sciences BA program is shifting several courses around to set up a better scaffolding system of prerequisites and upper division electives. We are establishing HSCI 312 (previously HSCI 401) as a required course for all BA majors instead of the option of HSCI 303 or HSCI 401. We do not anticipate offering HSCI 303 every year, so this streamlines our course offerings.

We are providing our undergraduate students with two options for completing their ethics requirement for the major. HSCI 319W will remain one option, and we are making an existing course, HSCI 405, a second option for fulfilling this requirement. This will facilitate smaller class sizes (we currently have about 150 students taking the 319 course each semester) and more choice for students.

Experience with BA honors students in Health Sciences has shown that they do not need 15 units of work to finish the thesis, and some students need much less. Thus we are reducing the maximum number of units that a student can receive for their honors thesis work from 15 units. We are adding flexibility as well; students now have the option, with permission of their supervisor, of completing it with 9 or 12 units. The change describes the honors requirements in more detail and addresses the reduction in number of credits for HSCI honors courses.



SIMON FRASER UNIVERSITY
THINKING OF THE WORLD

FACULTY OF HEALTH SCIENCES

PHONE (778) 782-4821
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MEMORANDUM

TO: SCUS *KKC*
FROM: Kitty Corbett, Director, Undergraduate Programs, Faculty of Health Sciences
RE: Minimum Grade Requirement
DATE: February 23, 2010

We are asking SCUS to consider approval of the following change in minimum grade requirement:

FROM:

[There was nothing said about minimum grades required.]

TO:

Students enrolling in HSCI courses must have a grade of C- or better in prerequisite courses. Students enrolled in HSCI major and minor programs must have a grade of C- or better in all required courses.

RATIONALE:

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