

MEMO

Dean of
Graduate Studies

STREET ADDRESS

Maggie Benston Student
Services Centre 1100
Burnaby BC V5A 1S6
Canada

MAILING ADDRESS

8888 University Drive
Burnaby BC V5A 1S6
Canada

TO Senate

TEL

FROM Wade Parkhouse, Dean, Graduate Studies



RE Faculty of Health Sciences

[GS2012.16]

CC Margo Moore

DATE 7 March 2012

For information:

Acting under delegated authority at its meeting of 5 March 2012, the SGSC moved to approve the following curriculum revisions:

Effective Date is September 2012

Faculty of Health Sciences

[GS2012.16]

Cross-listing FHS courses with Molecular Biology and Biochemistry:

i) New courses:

HSCI 726-4 The Immune System I: Basis of Innate and Adaptive Immunity

HSCI 727-3 Immune System II: Immune Responses in Health and Disease

ii) Change to prerequisites: HSCI 807-3 Researching Health Inequities

Senators wishing to consult a more detailed report of curriculum revisions may do so by going to Docushare: <https://docushare.sfu.ca/dsweb/View/Collection-12682>

If you are unable to access the information, please call [778-782-3168](tel:778-782-3168) or email shelley_gair@sfu.ca.

FACULTY OF HEALTH SCIENCES

Simon Fraser University
Blusson Hall
8888 University Drive
Burnaby, B.C.
V5A 1S6

Margo Moore
Associate Dean, Education
Office: 778-782-3441
Fax: 778-782-5766
Email: mmoore@sfu.ca

February 20, 2012

TO: Dr. Wade Parkhouse
Dean Graduate Studies

FROM: Margo Moore, Associate Dean, Education
Faculty of Health Sciences

SUBJECT: New Graduate Courses in Faculty of Health Sciences Cross-listed
with Molecular Biology and Biochemistry

Dear Dr. Parkhouse: *Wade*

As Dr. Scott, the chair of the MSc PhD committee in FHS has discussed with you, FHS is resubmitting their proposal for two new grad courses, HSCI 726-4 and HSCI 727-3, that will be cross-listed with two MBB graduate courses that are already on the books (MBB 726-4 and MBB 727-3). Please find attached a memo from Bruce Brandhorst, Chair of MBB, stating that the MBB Grad Studies Committee has approved of this plan. The addition of these two courses will complete the plan between FHS and MBB for cross listing its undergraduate and graduate immunology courses, Immune System I (MBB/HSCI 426 and now MBB 726) Immune System II (MBB/HSCI 427 and MBB 727). Note that there are extra requirements of the graduate students enrolled in the courses. The cross listing was designed to make it possible for faculty in the FHS immunology group, which spans both MBB and FHS, to teach these core immunology courses.

Sincerely,

Margo
Margo Moore



department of molecular biology and biochemistry

MEMO

Chair's Office
SSB 8166

Tel: 778-782-4627
Fax: 778-782-5583
mbbchair@sfu.ca

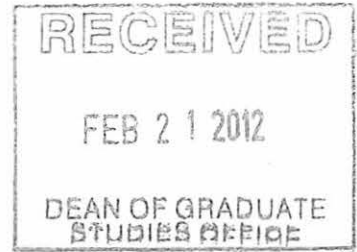
ATTENTION Margo Moore, Faculty of Health Sciences	TEL
FROM Bruce Brandhorst, Chair, MBB	
RE Cross listing of MBB/HSCI courses 426,726,427,727	
DATE Feb. 20, 2012	

MBB approves of the plan to cross list as MBB/HSCI courses the graduate versions of the already cross listed courses MBB/HSCI 426 and 427. The cross listing allows faculty from both units to teach these courses and for FTEs to be credited to the Faculty of student origin. MBB/HSCI 726 and 727 are required so that graduate students lacking immunology course work will be able to take these courses for credit. The requirements for 726 and 727 are different and more sophisticated than for 426 and 427. MBB will initiate calendar revisions of MBB 727 to insure that students cannot take it for credit in addition to MBB/HSCI 427 or HSCI 727.

Cc: Edgar Young, Acting Chair, MBB Graduate Studies Committee



SIMON FRASER UNIVERSITY
DEAN OF GRADUATE STUDIES



New Graduate Course Proposal Form

PROPOSED COURSE

Program (eg. ECON) HSCI	Number (eg. 810) 726	Units (eg. 4) 4
Course Title (max 80 characters) The Immune System I: Basis of Innate and Adaptive Immunity		
Short Title (appears on transcripts, max 25 characters) The Immune System I		
Course Description for SFU Calendar <input type="checkbox"/> see attached document <input type="checkbox"/> Learning outcomes identified The basic organization of the immune system, including structure, function and genetics of antibodies, T-cell receptors, innate immune receptors, and the complement system. Innate, antibody and cellular immune responses and their control, and development of the cells involved in these responses. Prerequisite: MBB 331 or permission of the instructor. Students with credit for MBB or HSCI 426, MBB 826 or MBB 726 may not complete HSCI 726 for credit.		
Available Course Components: <input checked="" type="checkbox"/> Lecture <input checked="" type="checkbox"/> Seminar <input type="checkbox"/> Laboratory <input type="checkbox"/> Practicum <input type="checkbox"/> Online <input type="checkbox"/> _____		
Grading Basis <input checked="" type="checkbox"/> Graded <input type="checkbox"/> Satisfactory/Unsatisfactory <input type="checkbox"/> In Progress/Complete		
Prerequisites (if any) <input type="checkbox"/> see attached document MBB 331 or permission of the instructor.		
<input checked="" type="checkbox"/> This proposed course is combined with an undergrad course: Course number and units: <u>HSCI 426-4 and MBB 426-4</u>		
Additional course requirements for graduate students <input type="checkbox"/> See attached document (if this space is insufficient) An extra hour of tutorial per week.		
Campus at which course will be offered (check all that apply) <input checked="" type="checkbox"/> Burnaby <input type="checkbox"/> Vancouver <input type="checkbox"/> Surrey <input type="checkbox"/> GNW <input type="checkbox"/> _____		
Estimated enrolment 15-20	Date of initial offering Fall 2012	Course delivery (eg. 3 hrs/week for 13 weeks) 4 hrs/week for 13 weeks
Justification <input checked="" type="checkbox"/> See attached document		

RESOURCES

If additional resources are required to offer this course, the department proposing the course should be prepared to provide information on the source(s) of those additional resources.

Faculty member(s) who will normally teach this course <input type="checkbox"/> information about their competency to teach the course is appended Jamie Scott (FHS & MBB)
Number of additional faculty members required in order to offer this course none
Additional space required in order to offer this course <input type="checkbox"/> see attached document none
Additional specialized equipment required in order to offer this course <input type="checkbox"/> see attached document none
Additional Library resources required (append details) <input type="checkbox"/> Annually \$ _____ <input type="checkbox"/> One-time \$ _____ none

PROPOSED COURSE from first page

Program (eg. ECON) HSCI	Number (eg. 810) 726	Units (eg. 4) 4
Course title (max 80 characters) The Immune System I: Basis of Innate and Adaptive Immu		

APPROVAL SIGNATURES

When a department proposes a new course it must first be sent to the chairs of each faculty graduate program committee where there might be an overlap in course content. The chairs will indicate that overlap concerns have been dealt with by signing the appropriate space or via a separate memo or e-mail (attached to this form).

The new course proposal must also be sent to the Library for a report on library resources.

Once overlap concerns have been dealt with, signatures indicate approval by the department, home faculty and Senate Graduate Studies Committee.

Other Faculties

The signature(s) below indicate that the Dean(s) or designate of other Faculties affected by the proposed new course support(s) the approval of the new course.

Name of Faculty	Signature of Dean or Designate	Date
see attached		

Departmental Approval (non-departmentalized faculties need not sign)

Department Graduate Program Committee	Signature	Date
Department Chair	Signature	Date

Faculty Approval

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 and any other necessary resources.

Faculty Graduate Program Committee MARIE MOORE	Signature <i>[Signature]</i>	Date Feb 20, 2012
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Senate Graduate Studies Committee Approval

SGSC approval indicates that the Library report has been seen, and all resource issues dealt with. Once approved, new course proposals are sent to Senate for information.

Senate Graduate Studies Committee W Parkhouse	Signature <i>[Signature]</i>	Date Mar 6/11
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CONTACT

Upon approval of the course, the Dean of Graduate Studies office will consult with the department or school regarding other course attributes that may be required to enable the proper entry of the new course in the student record system.

Department / School / Program	Contact name	Contact email
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**FACULTY OF HEALTH SCIENCES
HSCI 726-4**

Immune System I: Basis of Innate and Adaptive Immunity

Fall 2012

Instructor:	Dr. J. Scott, Office: SSB 7144 and BH 9706; Email: jkscott@sfu.ca
Description/Topics	<p><u>General Course Description</u> This course covers basic organization of the immune system, including structure, function and genetics of antibodies, T-cell receptors, innate immune receptors, and the complement system. Innate, antibody and cellular immune responses and their control, and development of the cells involved in these responses.</p> <p>3 lecture hours/week; 1 tutorial hour/week; 0 lab hours</p> <p><u>Lecture Topics</u></p> <ol style="list-style-type: none">1. Basic concepts in Immunology2. Innate Immunity I3. Innate Immunity II4. Antigen Recognition by B- and T-Cell Receptors5. The Generation of Lymphocyte Antigen Receptors6. Antigen Presentation to T Lymphocytes7. Signaling through Immune System Receptors8. The Development and Survival of Lymphocytes I9. The Development and Survival of Lymphocytes II10. T-Cell Mediated Immunity11. The Humoral Immune Response12. Dynamics of Adaptive Immunity13. The Mucosal Immune System
Grading:	7 bi-weekly, non-cumulative exams, a 30-min, in-class presentation, homework, class participation. The final exam will not be cumulative.
Required texts:	K.M. Murphy, P. Travers and M. Walport. <i>Janeway's Immunobiology</i> . 8th Edition. 2012. Garland Publishing, ISBN: 9780815342434. http://www.garlandscience.com/product/isbn/9780815342434 Original research articles and review articles.
Prerequisite:	MBB 331 or permission of the instructor.
Notes:	HSCI 726 and MBB 726 are cross-listed courses; their content is identical. As compared to their undergraduate counterparts taking HSCI/MBB 426, graduate students taking HSCI/MBB 726 will present a primary paper from the literature on their own, and they are expected to provide a longer summary that will include a literature review and a critique of the paper in light of the current literature. Students who have taken MBB 426, HSCI 426 or MBB 726 may not receive credit for HSCI 726.

Students requiring accommodations as a result of a disability should contact the Centre for Students with Disabilities (778-782-5630 or e-mail: csdo@sfu.ca).

All students are subject to and responsible for being familiar with the SFU academic integrity policy, which can be found on-line at <http://students.sfu.ca/academicintegrity/index.html>

Students are expected to be familiar with the plagiarism tutorial found at

<http://www-old.lib.sfu.ca/researchhelp/tutorials/interactive/plagiarism/tutorial/table-of-contents.htm>

For help with writing, learning and study strategies please contact the Student Learning Commons at <http://learningcommons.sfu.ca/>

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FACULTY OF HEALTH SCIENCES

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

D100 Fall 2011

Instructor: Dr. J. K. Scott, Office: SSB 7144 & BLU 9502; Email: jkscott@sfu.ca

Description/topics:

General Course Description:

This course covers basic organization of the immune system, including structure, function and genetics of antibodies, T-cell receptors, innate immune receptors, and the complement system. Innate, antibody and cellular immune responses and their control, and development of the cells involved in these responses.

4 lecture hours/week; 1 tutorial hour/week; 0 lab hours

Lecture Schedule:

<u>Lecture#</u>	<u>Lecture#</u>	<u>Lecture#</u>
1-2	1-2	1-2
3-4	3-4	3-4
5-6	5-6	5-6
7-8	7-8	7-8
9-10	9-10	9-10
11-12	11-12	11-12
13-14	13-14	13-14
15-16	15-16	15-16
17-18	17-18	17-18
19-20	19-20	19-20
21-22	21-22	21-22
23-24	23-24	23-24
25-26	25-26	25-26

Grading:

7 bi-weekly, non-cumulative exams, one 15-min. in-class presentation, a 2-page presentation summary, clicker quizzes. The final exam will not be cumulative.

Required texts:

K.M. Murphy. *Janeway's Immunobiology*. 8th Edition. 2011. Garland Publishing, ISBN: 978-08153-4243-4. <http://www.garlandscience.com/textbooks/9780815342434.asp>

Also Required:

I<Clicker (old and new ones are available in the SFU bookstore)

Recommended texts:

Those interested in medicine might like to get the companion text: R. Geha & F. Rosen. *Case Studies in Immunology*. 5th Ed. 2007. Garland Publishing, ISBN13: 978-08153-4145-1. <http://www.garlandscience.com/textbooks/0815341451.asp>

Prerequisite/co-requisite: Prerequisite: MBB 331 or consent of the instructor.

Notes:

Students who have taken MBB 426, BICH 426, MBB 726, HSCI 325, HSCI 425 or HSCI 726, may not receive credit for HSCI 426.

Students requiring accommodations as a result of a disability should contact the Centre for Students with Disabilities (778-782-5630 or e-mail: csdo@sfu.ca).

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MOLECULAR BIOLOGY AND BIOCHEMISTRY

MBB 426-4

The Immune System I: Basis of Innate and Adaptive Immunity

Fall 2011

Instructor: Dr. J. K. Scott, Office: SSB 7144 & BLU 9502; Email: jkscott@sfu.ca

Description/topics: General Course Description:
This course covers basic organization of the immune system, including structure, function and genetics of antibodies, T-cell receptors, innate immune receptors, and the complement system. Innate, antibody and cellular immune responses and their control, and development of the cells involved in these responses.
4 lecture hours/week; 1 tutorial hour/week; 0 lab hours

Lecture Schedule:

Lecture#	Topic	Chapters
1-2	Basic Concepts in Immunology	1
3-4	Innate Immunity: The First Lines of Defense	2
5-6	The Induced Responses of Innate Immunity	3
7-8	Antigen Recognition by B-cell and T-cell Receptors	4
9-10	The Generation of Lymphocyte Antigen Receptors	5
11-12	Antigen Presentation to T Lymphocytes	6
13-14	Signaling through Immune System Receptors	7
15-16	The Development and Survival of Lymphocytes I	8
17-18	The Development and Survival of Lymphocytes II	8
19-20	T-cell Mediated Immunity	9
21-22	The Humoral Immune Response	10
23-24	Dynamics of Adaptive Immunity	11
25-26	The Mucosal Immune System	12

Grading: 7 bi-weekly, non-cumulative exams, one 15-min. in-class presentation, a 2-page presentation summary, clicker quizzes. The final exam will not be cumulative.

Required texts: K.M. Murphy. *Janeway's Immunobiology*. 8th Edition. 2011. Garland Publishing, ISBN: 978-08153-4243-4. <http://www.garlandscience.com/textbooks/9780815342434.asp>

Also Required: IClicker (old and new ones are available in the SFU bookstore)

Recommended texts: Those interested in medicine might like to get the companion text: R. Geha & F. Rosen. *Case Studies in Immunology*. 5th Ed. 2007. Garland Publishing, ISBN13: 978-08153-4145-1. <http://www.garlandscience.com/textbooks/0815341451.asp>

Prerequisite/co-requisite: Prerequisite: MBB 331 or consent of the instructor.

Notes: Students who have taken BICH 426, MBB 726, HSCI 325 or HSCI 425 may not receive credit for MBB 426.

Students requiring accommodations as a result of a disability should contact the Centre for Students with Disabilities (778-782-5630 or e-mail: csdo@sfu.ca).

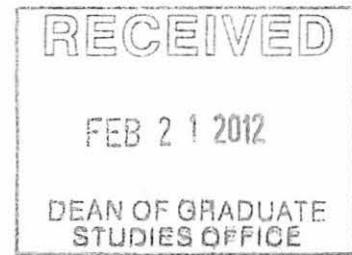
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SIMON FRASER UNIVERSITY
DEAN OF GRADUATE STUDIES



New Graduate Course Proposal Form

PROPOSED COURSE

Program (eg. ECON) HSCI	Number (eg. 810) 727	Units (eg. 4) 3
Course Title (max 80 characters) Immune System II: Immune Responses in Health and Disease		
Short Title (appears on transcripts, max 25 characters) The Immune System II		
Course Description for SFU Calendar <input type="checkbox"/> see attached document <input type="checkbox"/> Learning outcomes identified The immunologic response to bacterial, viral and parasitic infections, immunological diseases, such as autoimmune diseases, immunodeficiency, hypersensitivity reactions (including asthma and allergy) and transplantation-rejection reactions. Immunotherapeutics and vaccine development. Prerequisite: MBB HSCI 426 or permission of the instructor. Students with credit for MBB 427, HSCI 427 or MBB 727 may not complete HSCI 727 for credit.		
Available Course Components: <input checked="" type="checkbox"/> Lecture <input type="checkbox"/> Seminar <input type="checkbox"/> Laboratory <input type="checkbox"/> Practicum <input type="checkbox"/> Online <input type="checkbox"/> _____		
Grading Basis <input checked="" type="checkbox"/> Graded <input type="checkbox"/> Satisfactory/Unsatisfactory <input type="checkbox"/> In Progress/Complete		
Prerequisites (if any) <input type="checkbox"/> see attached document MBB/HSCI 426 or permission of the instructor.		
<input checked="" type="checkbox"/> This proposed course is combined with an undergrad course: Course number and units: <u>HSCI 427-3 and MBB 427-3</u>		
Additional course requirements for graduate students <input type="checkbox"/> See attached document (if this space is insufficient) An extra hour of tutorial per week.		
Campus at which course will be offered (check all that apply) <input checked="" type="checkbox"/> Burnaby <input type="checkbox"/> Vancouver <input type="checkbox"/> Surrey <input type="checkbox"/> GNW <input type="checkbox"/> _____		
Estimated enrolment 15-20	Date of initial offering Fall 2012	Course delivery (eg. 3 hrs/week for 13 weeks) 3 hrs/week for 13 weeks
Justification <input checked="" type="checkbox"/> See attached document		

RESOURCES

If additional resources are required to offer this course, the department proposing the course should be prepared to provide information on the source(s) of those additional resources.

Faculty member(s) who will normally teach this course <input type="checkbox"/> information about their competency to teach the course is appended Jamie Scott (FHS & MBB)
Number of additional faculty members required in order to offer this course none
Additional space required in order to offer this course <input type="checkbox"/> see attached document none
Additional specialized equipment required in order to offer this course <input type="checkbox"/> see attached document none
Additional Library resources required (append details) <input type="checkbox"/> Annually \$_____ <input type="checkbox"/> One-time \$_____
none

PROPOSED COURSE from first page

Program (eg. ECON) HSCI	Number (eg. 810) 727	Units (eg. 4) 3
Course title (max 80 characters) Immune System II: Immune Responses in Health and Disease		

APPROVAL SIGNATURES

When a department proposes a new course it must first be sent to the chairs of each faculty graduate program committee where there might be an overlap in course content. The chairs will indicate that overlap concerns have been dealt with by signing the appropriate space or via a separate memo or e-mail (attached to this form).

The new course proposal must also be sent to the Library for a report on library resources.

Once overlap concerns have been dealt with, signatures indicate approval by the department, home faculty and Senate Graduate Studies Committee.

Other Faculties

The signature(s) below indicate that the Dean(s) or designate of other Faculties affected by the proposed new course support(s) the approval of the new course.

Name of Faculty	Signature of Dean or Designate	Date
✓ see attached		

Departmental Approval (non-departmentalized faculties need not sign)

Department Graduate Program Committee	Signature	Date
Department Chair	Signature	Date

Faculty Approval

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 and any other necessary resources.

Faculty Graduate Program Committee <i>MARCO MOORE</i>	Signature <i>[Signature]</i>	Date <i>FEB 20, 2012</i>
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Senate Graduate Studies Committee Approval

SGSC approval indicates that the Library report has been seen, and all resource issues dealt with. Once approved, new course proposals are sent to Senate for information.

Senate Graduate Studies Committee <i>W Parkhouse</i>	Signature <i>[Signature]</i>	Date <i>Mar 6/12</i>
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CONTACT

Upon approval of the course, the Dean of Graduate Studies office will consult with the department or school regarding other course attributes that may be required to enable the proper entry of the new course in the student record system.

Department / School / Program	Contact name	Contact email
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10

FACULTY OF HEALTH SCIENCES
HSCI 727-3

Immune System II: Immune Responses in Health and Disease

Spring 2012

Instructor:	Dr. J. Choy, Office: TASC II 8008; Email: jonathan.choy@sfu.ca
Description/Topics	<p><u>General Course Description</u> Many diseases are caused by dysregulation of the immune system. This course will examine the immunological mechanisms underlying human immunodeficiencies, HIV infection, asthma and allergy, autoimmunity, organ transplantation, and cardiovascular disease. Immune responses to cancer and cancer immunotherapy will also be discussed.</p> <p><u>Lecture Topics</u></p> <ol style="list-style-type: none">1. Evasion and subversion of host defenses by pathogens2. Human immunodeficiencies3. Acquired immunodeficiency4. Allergy and hypersensitivity5. Physiological induction and maintenance of tolerance6. Autoimmunity7. Transplantation8. Tumor immunology and immunotherapy9. Immunological aspects of atherosclerosis
Grading:	2 non-cumulative exams (30% each), one individual in-class presentation with written summary (30%), and class participation (10%).
Required texts:	K.M. Murphy, P. Travers and M. Walport. <i>Janeway's Immunobiology</i> . 8th Edition. 2012. Garland Publishing, ISBN: 9780815342434. http://www.garlandscience.com/product/isbn/9780815342434 Original research articles and review articles.
Prerequisite:	The cross-listed courses, HSCI/MBB 426 or HSCI/MBB 726.
Notes:	HSCI 727 and MBB 727 are cross-listed courses; their content is identical. As compared to their undergraduate counterparts taking HSCI/MBB 427, graduate students taking HSCI/MBB 727 will present a primary paper from the literature on their own, and they are expected to provide a longer summary that will include a literature review and a critique of the paper in light of the current literature. Students who have taken MBB 427, HSCI 427 or MBB 727 may not receive credit for HSCI 727.

Students requiring accommodations as a result of a disability should contact the Centre for Students with Disabilities (778-782-5630 or e-mail: csdo@sfu.ca).

All students are subject to and responsible for being familiar with the SFU academic integrity policy, which can be found on-line at <http://students.sfu.ca/academicintegrity/index.html>

Students are expected to be familiar with the plagiarism tutorial found at <http://www-old.lib.sfu.ca/researchhelp/tutorials/interactive/plagiarism/tutorial/table-of-contents.htm>

For help with writing, learning and study strategies please contact the Student Learning Commons at <http://learningcommons.sfu.ca/>

FACULTY OF HEALTH SCIENCES

HSCI 427-3 Immune System II: Immune Responses in Health and Disease

D100 Spring 2012

Time: Wed & Fri 8:30am - 10:20am Burnaby campus: BLU9660

Professor: Dr. Jonathan Choy
Office: TASC II 8008
Email: jonathan.choy@sfu.ca
Phone: 778-782-8701
Office hours: TBD

COURSE DESCRIPTION:

Many diseases are caused by dysregulation of the immune system. This course will examine the immunological mechanisms underlying human immunodeficiencies, HIV infection, asthma and allergy, autoimmunity, and organ transplantation. Immune responses to cancer and cancer immunotherapy will also be discussed.

Lecture Topics

1. Evasion and subversion of host defenses by pathogens
2. Human immunodeficiencies
3. Acquired immunodeficiency
4. Allergy and hypersensitivity
5. Physiological induction and maintenance of tolerance
6. Autoimmunity
7. Transplantation
8. Tumor immunology and immunotherapy

TEACHING FORMAT: There will be two 2-hour classes each week.

REQUIRED TEXT:

1. K.M. Murphy, P. Travers and M. Walport. *Janeway's Immunobiology*. 8th Edition. 2012. Garland Publishing, ISBN: 9780815342434.
<http://www.garlandscience.com/product/isbn/9780815342434>

2. Original research articles and review articles

GRADING:

Two non-cumulative exams	30% each
One in-class presentation with written summary	30%
Class participation	10%

PREREQUISITES:

HSCI 426 or MBB 426 or permission of the instructor. HSCI 427 is identical to MBB 427 and students cannot receive credit for both courses.

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

Students who have taken MBB 427 or HSCI 427 may not receive credit for MBB 727 and vice versa.

**MOLECULAR BIOLOGY AND BIOCHEMISTRY
MBB 427-1**

Immune System II: Immune Responses in Health and Disease

Spring 2012

Instructor: Dr. J. Choy, Office: TASC II 8008; Email: jonathan.choy@sfu.ca

Description/Topics **General Course Description**
Many diseases are caused by dysregulation of the immune system. This course will examine the immunological mechanisms underlying human immunodeficiencies, HIV infection, asthma and allergy, autoimmunity, organ transplantation, and cardiovascular disease. Immune responses to cancer and cancer immunotherapy will also be discussed.

Lecture Topics

1. Evasion and subversion of host defenses by pathogens
2. Human immunodeficiencies
3. Acquired immunodeficiency
4. Allergy and hypersensitivity
5. Physiological induction and maintenance of tolerance
6. Autoimmunity
7. Transplantation
8. Tumor immunology and immunotherapy
9. Immunological aspects of atherosclerosis

Grading: 2 non-cumulative exams (30% each), one individual in-class presentation with written summary (30%), and class participation (10%).

Required texts: K.M. Murphy, P. Travers and M. Walport. *Janeway's Immunobiology*. 8th Edition. 2012. Garland Publishing, ISBN: 9780815342434.
<http://www.garlandscience.com/product/isbn/9780815342434>

Original research articles and review articles

Prerequisite: MBB 426/726 or HSCI 426; MBB 427/727 is identical to HSCI 427 and students cannot receive credit for both courses.

Notes: **Students who have taken MBB 427 or HSCI 427 may not receive credit for MBB 727 and vice versa.**

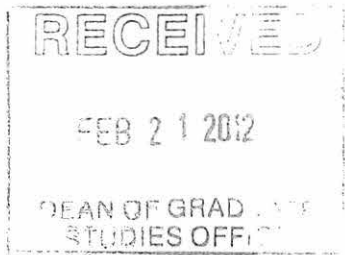
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For help with writing, learning and study strategies please contact the Student Learning Commons at <http://learningcommons.sfu.ca/>



Graduate Course Minor Change Form

This form is for an SFU department or program to request a minor change to an existing graduate course. After approval and signature by the faculty graduate studies committee, this form should be forwarded to the Dean of Graduate Studies for approval by the Senate Graduate Studies Committee (SGSC). SGSC will forward the approval to Senate for information.

DEPARTMENT

Department / School / Program Faculty of Health Sciences	Contact name Lynn Kumpula	Contact email kumpula@sfu.ca
Please revise the following elements of the indicated graduate course: <input type="checkbox"/> Catalogue number <input type="checkbox"/> Units <input type="checkbox"/> Title <input type="checkbox"/> Description <input checked="" type="checkbox"/> Other: <u>Pre requisites</u>		

CURRENT COURSE

Please complete only the fields to be changed.

Program (eg. ECON) HSCI	Number (eg. 810) 807	Units (eg. 4) 3
Course title (max 80 characters) researching health inequities		
Short title (appears on transcripts, max 25 characters) health inequities		
Course description for SFU Calendar <input type="checkbox"/> see attached Critical examination of methodologies and methods for research on health inequities related to class, race, ethnicity, gender and other social axes of marginalization and power. Covers a range of disciplines (epidemiology, social sciences), methodologies (positivist, critical, feminist, indigenous) and methods (qualitative, quantitative, action-oriented). Emphasis on causes of and solutions to systemic health inequities. Prerequisite: HSCI 802 and 803, or permission of instructor.		
Available course components <input type="checkbox"/> Lecture <input checked="" type="checkbox"/> Seminar <input type="checkbox"/> Laboratory <input type="checkbox"/> Practicum <input type="checkbox"/> Online <input type="checkbox"/> _____		
Grading basis <input checked="" type="checkbox"/> Graded <input type="checkbox"/> Satisfactory / Unsatisfactory <input type="checkbox"/> In Progress / Complete <input type="checkbox"/> _____		
Prerequisites (if any) HSCI 802 and 803 or permission of instructor.		
This is combined with an undergrad course. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Course number and units: _____		
Additional course requirements for graduate students		

REVISED COURSE

Please complete only the fields to be changed.

Program (eg. ECON) HSCI	Number (eg. 810) 807	Units (eg. 4) 3
Course title (max 80 characters) researching health inequities		
Short title (appears on transcripts, max 25 characters) health inequities		
Course description for SFU Calendar <input type="checkbox"/> see attached Critical examination of methodologies and methods for research on health inequities related to class, race, ethnicity, gender and other social axes of marginalization and power. Covers a range of disciplines (epidemiology, social sciences), methodologies (positivist, critical, feminist, indigenous) and methods (qualitative, quantitative, action-oriented). Emphasis on causes of and solutions to systemic health inequities. Prerequisite: HSCI 802, 803, 838 or permission of instructor.		
Available course components <input type="checkbox"/> Lecture <input checked="" type="checkbox"/> Seminar <input type="checkbox"/> Laboratory <input type="checkbox"/> Practicum <input type="checkbox"/> Online <input type="checkbox"/> _____		
Grading basis <input checked="" type="checkbox"/> Graded <input type="checkbox"/> Satisfactory / Unsatisfactory <input type="checkbox"/> In Progress / Complete <input type="checkbox"/> _____		
Prerequisites (if any) HSCI 802, 803 and 838 or permission of instructor.		
This is combined with an undergrad course. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Course number and units: _____		
Additional course requirements for graduate students		

APPROVALS

Dr. Margo Moore, Assoc. Dean Education
Faculty graduate studies committee name
C. Partridge
Senate graduate studies committee name

m. moore
Signature
C. Partridge
Signature

Oct 6, 2011
Date
Mar 6/12
Date

Existing Calendar Language

HSCI 807-3 Researching Health Inequities

Critical examination of methodologies and methods for research on health inequities related to class, race, ethnicity, gender and other social axes of marginalization and power. Covers a range of disciplines (epidemiology, social sciences), methodologies (positivist, critical, feminist, indigenous) and methods (qualitative, quantitative, action-oriented). Emphasis on causes of and solutions to systemic health inequities. Prerequisite: HSCI 802 and 803, or permission of instructor.