



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 Science

[GS2012.21]

CC Peter Ruben

DATE 23 April 2012

**For information:**

Acting under delegated authority at its meeting of 16 April 2012, SGSC approved the following curriculum revisions:

**Effective Date is January 2013**

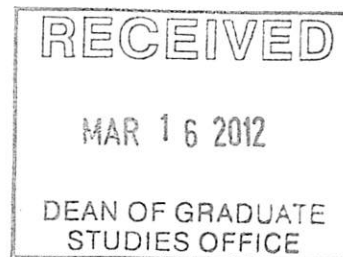
**Faculty of Science**

[GS2012.21]

Department of Molecular Biology and Biochemistry

- i) Minor course changes:
  - Change of pre-requisites for MBB 505-3
  - Change of pre-requisites for MBB 659-3
  - Change of pre-requisites for MBB 679-3
  - Change of pre-requisites for MBB 727-3

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](mailto:shelley_gair@sfu.ca).



**TO:** W. Parkhouse  
Dean of Graduate Studies

**FROM:** P. Ruben, Associate Dean  
Faculty of Science Graduate Studies  
Committee

**RE: Prerequisite Changes -** MBB 659,  
MBB 505, MBB 679 and MBB 727

**DATE:** March 12, 2012

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The following have been approved by the Faculty of Science and are forwarded for approval by the Senate Graduate Studies Committee. Please include these on the next SGSC agenda.

**Molecular Biology & Biochemistry**

Prerequisite Changes – MBB 659, MBB 505, MBB 679 and MBB 727

A handwritten signature in black ink, appearing to be "P. Ruben", written over a horizontal line.

P. Ruben

Enclosure

c. C. Cupples

# MOLECULAR BIOLOGY AND BIOCHEMISTRY

## Memorandum

To: Chair, Faculty Graduate Studies Committee,  
Faculty of Science

From: Edgar Young, Chair, MBB Graduate  
Studies Committee (Acting)

Re: Graduate Course Minor Changes

Date: February 24, 2012

We are requesting minor changes for the following courses:

1. Approval was given for course number changes of MBB 841 and MBB 842 to MBB 741 and MBB 742 in 2005 (Senate Committee meeting: 652005.46

[http://www.sfu.ca/content/dam/sfu/dean-gradstudies/admin/SGSC/2005/SGSCmin-20051212 .pdf](http://www.sfu.ca/content/dam/sfu/dean-gradstudies/admin/SGSC/2005/SGSCmin-20051212.pdf)

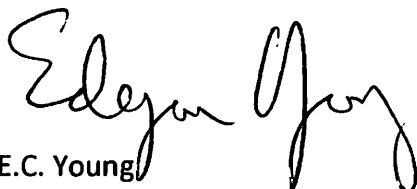
At that time changes were not requested to change "MBB 841" and "842" to "MBB 741" and "742" as prerequisites for MBB 505, MBB 659 and MBB 679.

3 Graduate Course Minor Change forms to change this now are attached.

2. We are requesting minor clarifying wording for the calendar regarding prerequisites for MBB 727.

The Graduate Course Minor Change form is attached.

Sincerely,

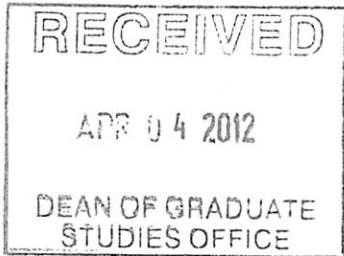


Dr. E.C. Young  
Chair, MBB Graduate Studies Committee (Acting)





SIMON FRASER UNIVERSITY  
DEAN OF GRADUATE STUDIES



# 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 <b>Molecular Biology &amp; Biochemistry</b>	Contact name <b>Dr. Edgar Young</b>	Contact email <b>youngec@sfu.ca</b>
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: <b>Prerequisites</b>		

## CURRENT COURSE

Please complete only the fields to be changed.

Program (eg. LBST) <b>MBB</b>	Number (eg. 810) <b>505</b>	Units (eg. 4) <b>3</b>
Course title (max 80 characters) <b>Problem Based Learning in Bioinformatics</b>		
Short title (appears on transcripts, max 25 characters)		
Course description for SFU Calendar <input type="checkbox"/> see attached		
Available course components <input type="checkbox"/> Lecture <input type="checkbox"/> Seminar <input type="checkbox"/> Laboratory <input type="checkbox"/> Practicum <input type="checkbox"/> Online <input type="checkbox"/> _____		
Practicum work done in this class will involve children or vulnerable adults (If the "Yes" box is checked, all students and instructors will require criminal record checks) <input type="checkbox"/> Yes <input type="checkbox"/> No		
Grading basis <input type="checkbox"/> Graded <input type="checkbox"/> Satisfactory / Unsatisfactory <input type="checkbox"/> In Progress / Complete <input type="checkbox"/> _____		
Prerequisites (if any)		
<small>MBB 841 or equivalent bioinformatics course (undergraduate or graduate). This course is identical to CMPT 505 and students cannot take both.</small>		
This is combined with an undergrad course. <input type="checkbox"/> Yes <input 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. LBST) <b>MBB</b>	Number (eg. 810) <b>505</b>	Units (eg. 4) <b>3</b>
Course title (max 80 characters) <b>Problem Based Learning in Bioinformatics</b>		
Short title (appears on transcripts, max 25 characters)		
Course description for SFU Calendar <input type="checkbox"/> see attached		
Available course components <input type="checkbox"/> Lecture <input type="checkbox"/> Seminar <input type="checkbox"/> Laboratory <input type="checkbox"/> Practicum <input type="checkbox"/> Online <input type="checkbox"/> _____		
Practicum work done in this class will involve children or vulnerable adults (If the "Yes" box is checked, all students and instructors will require criminal record checks) <input type="checkbox"/> Yes <input type="checkbox"/> No		
Grading basis <input type="checkbox"/> Graded <input type="checkbox"/> Satisfactory / Unsatisfactory <input type="checkbox"/> In Progress / Complete <input type="checkbox"/> _____		
Prerequisites (if any) <i>See attached</i>		
<small>MBB 741 or equivalent bioinformatics course (undergraduate or graduate). This course is identical to CMPT 505 and students cannot take both.</small>		
This is combined with an undergrad course. <input type="checkbox"/> Yes <input type="checkbox"/> No		
Course number and units: _____		
Additional course requirements for graduate students		

## APPROVALS

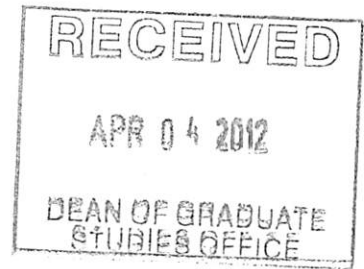
Dr. Peter Ruben  
Faculty graduate studies committee name  
W. Parkhouse  
Senate graduate studies committee name

*[Signature]*  
Signature  
*[Signature]*  
Signature

3 April 2012  
Date  
Apr 24/12  
Date

**MBB 505 Prerequisites:**

MBB 741 or equivalent bioinformatics course (undergraduate or graduate). This course is identical to CMPT 505 and students cannot take both courses for credit. ✓



# Graduate Course Minor Change Form

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## DEPARTMENT

Department / School / Program <b>Molecular Biology &amp; Biochemistry</b>	Contact name <b>Dr. Edgar Young</b>	Contact email <b>youngec@sfu.ca</b>
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: <b>Prerequisites</b>		

## CURRENT COURSE

Please complete only the fields to be changed.

Program (eg. LBST) <b>MBB</b>	Number (eg. 810) <b>659</b>	Units (eg. 4) <b>3</b>
Course title (max 80 characters) <b>Special Topics in Bioinformatics</b>		
Short title (appears on transcripts, max 25 characters)		
Course description for SFU Calendar <input type="checkbox"/> see attached		
Available course components <input type="checkbox"/> Lecture <input type="checkbox"/> Seminar <input type="checkbox"/> Laboratory <input type="checkbox"/> Practicum <input type="checkbox"/> Online <input type="checkbox"/> _____		
Practicum work done in this class will involve children or vulnerable adults (If the "Yes" box is checked, all students and instructors will require criminal record checks) <input type="checkbox"/> Yes <input type="checkbox"/> No		
Grading basis <input type="checkbox"/> Graded <input type="checkbox"/> Satisfactory / Unsatisfactory <input type="checkbox"/> In Progress / Complete <input type="checkbox"/> _____		
Prerequisites (if any) <b>MBB 441 or 841; or CMPT 341 or 881</b>		
This is combined with an undergrad course. <input type="checkbox"/> Yes <input type="checkbox"/> No		
Course number and units: _____		
Additional course requirements for graduate students		

## REVISED COURSE

Please complete only the fields to be changed.

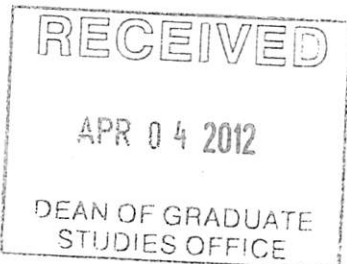
Program (eg. LBST) <b>MBB</b>	Number (eg. 810) <b>659</b>	Units (eg. 4) <b>3</b>
Course title (max 80 characters) <b>Special Topics in Bioinformatics</b>		
Short title (appears on transcripts, max 25 characters)		
Course description for SFU Calendar <input type="checkbox"/> see attached		
Available course components <input type="checkbox"/> Lecture <input type="checkbox"/> Seminar <input type="checkbox"/> Laboratory <input type="checkbox"/> Practicum <input type="checkbox"/> Online <input type="checkbox"/> _____		
Practicum work done in this class will involve children or vulnerable adults (If the "Yes" box is checked, all students and instructors will require criminal record checks) <input type="checkbox"/> Yes <input type="checkbox"/> No		
Grading basis <input type="checkbox"/> Graded <input type="checkbox"/> Satisfactory / Unsatisfactory <input type="checkbox"/> In Progress / Complete <input type="checkbox"/> _____		
Prerequisites (if any) <b>MBB 441 or 741; or CMPT 341 or 881</b>		
This is combined with an undergrad course. <input type="checkbox"/> Yes <input type="checkbox"/> No		
Course number and units: _____		
Additional course requirements for graduate students		

## APPROVALS

Dr. Peter Ruben  
 Faculty graduate studies committee name  
 W Parkhouse  
 Senate graduate studies committee name

Signature  
  
 Signature

3 April 2012  
 Date  
 Apr 24/12  
 Date



# Graduate Course Minor Change Form

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## DEPARTMENT

Department / School / Program Molecular Biology and Biochemistry	Contact name Dr. Edgar Young	Contact email youngec@sfu.ca
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Please revise the following elements of the indicated graduate course:  
 Catalogue number    Units    Title    Description    Other: Prerequisite course number

## CURRENT COURSE

Please complete only the fields to be changed.

Program (eg. ECON) MBB	Number (eg. 810) 679	Units (eg. 4) 3
Course title (max 80 characters)		
Short title (appears on transcripts, max 25 characters)		
Course description for SFU Calendar <input type="checkbox"/> see attached		
Available course components <input type="checkbox"/> Lecture <input type="checkbox"/> Seminar <input type="checkbox"/> Laboratory <input type="checkbox"/> Practicum <input checked="" 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) MBB 442 or 842		
This is combined with an undergrad course. <input type="checkbox"/> Yes <input 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)	Number (eg. 810)	Units (eg. 4)
Course title (max 80 characters)		
Short title (appears on transcripts, max 25 characters)		
Course description for SFU Calendar <input type="checkbox"/> see attached		
Available course components <input 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 type="checkbox"/> Graded <input type="checkbox"/> Satisfactory / Unsatisfactory <input type="checkbox"/> In Progress / Complete <input type="checkbox"/> _____		
Prerequisites (if any) MBB 442 or 742		
This is combined with an undergrad course. <input type="checkbox"/> Yes <input type="checkbox"/> No		
Course number and units: _____		
Additional course requirements for graduate students		

Faculty graduate studies committee name (P. Ruben)

Date April 2, 2012

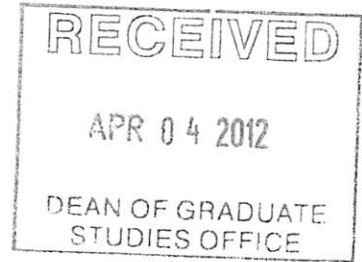
Signature

*[Signature]*

Senate graduate studies committee name

Signature      Date

*[Signature]*      Apr 24/12



# 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 <b>Molecular Biology &amp; Biochemistry</b>	Contact name <b>Dr. Edgar Young</b>	Contact email <b>youngec@sfu.ca</b>
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: <b>Prerequisites</b>		

## CURRENT COURSE

Please complete only the fields to be changed.

Program (eg. LBST) <b>MBB</b>	Number (eg. 810) <b>727</b>	Units (eg. 4) <b>3</b>
Course title (max 80 characters) <b>Immune System II: Immune Responses in Health and Disease</b>		
Short title (appears on transcripts, max 25 characters)		
Course description for SFU Calendar <input type="checkbox"/> see attached		
Available course components <input type="checkbox"/> Lecture <input type="checkbox"/> Seminar <input type="checkbox"/> Laboratory <input type="checkbox"/> Practicum <input type="checkbox"/> Online <input type="checkbox"/> _____		
Practicum work done in this class will involve children or vulnerable adults (If the "Yes" box is checked, all students and instructors will require criminal record checks) <input type="checkbox"/> Yes <input type="checkbox"/> No		
Grading basis <input type="checkbox"/> Graded <input type="checkbox"/> Satisfactory / Unsatisfactory <input type="checkbox"/> In Progress / Complete <input type="checkbox"/> _____		
Prerequisites (if any) <b>MBB HSCI 426 or permission from instructor.</b>		
This is combined with an undergrad course. <input type="checkbox"/> Yes <input 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. LBST) <b>MBB</b>	Number (eg. 810) <b>727</b>	Units (eg. 4) <b>3</b>
Course title (max 80 characters) <b>Immune System II: Immune Responses in Health and Disease</b>		
Short title (appears on transcripts, max 25 characters)		
Course description for SFU Calendar <input type="checkbox"/> see attached		
Available course components <input type="checkbox"/> Lecture <input type="checkbox"/> Seminar <input type="checkbox"/> Laboratory <input type="checkbox"/> Practicum <input type="checkbox"/> Online <input type="checkbox"/> _____		
Practicum work done in this class will involve children or vulnerable adults (If the "Yes" box is checked, all students and instructors will require criminal record checks) <input type="checkbox"/> Yes <input type="checkbox"/> No		
Grading basis <input type="checkbox"/> Graded <input type="checkbox"/> Satisfactory / Unsatisfactory <input type="checkbox"/> In Progress / Complete <input type="checkbox"/> _____		
Prerequisites (if any) <i>See attached *</i>		
<small>MBB 426 or HSCI 426 or permission of the instructor. Students w/credit for MBB 427, HSCI 427, HSCI 727 may not complete MBB 727 for credit</small>		
This is combined with an undergrad course. <input type="checkbox"/> Yes <input type="checkbox"/> No		
Course number and units: _____		
Additional course requirements for graduate students		

## APPROVALS

Dr. Peter Ruben  
Faculty graduate studies committee name  
*W. Parkhouse*  
Senate graduate studies committee name

*[Signature]*  
Signature  
*[Signature]*  
Signature

*3 APR 2012*  
Date  
*Apr 24/12*  
Date



**MBB 727 Prerequisites:**

MBB 426 or HSCI 426 or permission of the instructor. Students w/credit for MBB 427, HSCI 427, HSCI 727 may not complete MBB 727 for credit.



### **MBB 505-3 Problem Based Learning in Bioinformatics**

**The problem-based learning course will develop students' ability to exchange ideas in small groups focused on real but simplified problems in bioinformatics. Problems will be carefully selected to cover multiple areas of bioinformatics research. This is an advanced bioinformatics course that assumes the student has previous bioinformatics training. [Prerequisite: MBB 841 or equivalent bioinformatics course (undergraduate or graduate). This course is identical to CMPT 505 and students can not take both courses for credit.]**

### **MBB 659-3 Special Topics in Bioinformatics**

**Consideration of recent research literature on contemporary topics in bioinformatics. [Prerequisites: MBB 441 or 841; or CMPT 341 or 881.]**

### **MBB 679-3 Special Topics in Proteomics**

**Consideration of recent research literature on contemporary topics in proteomics. [Prerequisites: MBB 442 or 842.]**

### **MBB 727-3 Immune System II: Immune Responses in Health and Disease**

**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.]**