

MEMORANDUM

ATTENTION Senate
FROM Mary O'Brien,
Chair of Senate Graduate Studies
Committee (SGSC)
RE: Course Change

DATE November 13, 2025



For information:

Acting under delegated authority at its meeting of **November 4, 2025**, SGSC approved the following course change, effective **Summer 2026**:

Faculty of Education

- 1) Course Change (Course Number, Prerequisite, Equivalency): MATH 603
- 2) Course Change (Course Number, Title, Prerequisite, Equivalency): MATH 604

Faculty of Science

Department of Molecular Biology and Biochemistry

- 1) Course Change (Title, Description): MBB 702 (Fall 2026)
- 2) Course Change (Title, Description): MBB 721 (Fall 2026)
- 3) Course Change (Title, Description): MBB 723 (Fall 2026)

MEMO

Graduate Studies

8888 University Drive
Burnaby BC V5A 1S6
Canada

T: 778.782.3297

www.sfu.ca/education/gs

ATTENTION: Senate Graduate Studies Committee

FROM: Dr. Engida Gebre,
Associate Dean, Graduate Studies in Education

RE: Educational Graduate Program Changes

DATE: May 7, 2025

The following graduate course changes and graduate program changes, have been approved by the Faculty of Education and are forwarded to the Senate Graduate Studies Committee for approval. These curriculum items should be effective for the Spring 2026 term. Please include on the next SGSC agenda.

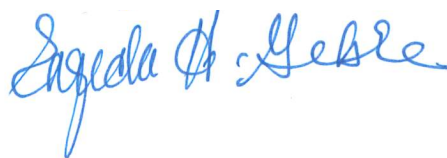
Faculty of Education

Course changes:

- MATH 603
- MATH 604

Program changes to Secondary Mathematics Education

- Master of Education and
- Master of Science



Dr. Engida Gebre

To: Senate Graduate Studies Committee
From: Department of Mathematics
Re: Release MATH 603 and 604 to the Department of Education
Date: April 8, 2025

The following have been approved by the Department of Mathematics and are forwarded to the Senate Graduate Studies Committee for approval. These curriculum items should be effective for Fall 2025. Please include them on the next SGSC agenda.

Department of Mathematics

Release courses: MATH 603 and MATH 604

MATH 603 – Crises in mathematics, their historical and philosophical background and their resolution.

Prerequisite: Acceptance into the MSc program in mathematics education or permission of the department. Graduate students in the Department of Mathematics cannot take this course to satisfy their degree requirements.

MATH 604 – Euclidean and non-Euclidean geometries. Klein's erlangen program.

Prerequisite: Entrance into the MSc in mathematics education program or permission of the department. Graduate students in the Department of Mathematics cannot take this course to satisfy their degree requirements.



Ladislav Stacho, Faculty Graduate Chair

GRADUATE COURSE CHANGE

Attach a separate document if more space is required.

Course Subject/Number MATH 603	Units 4	Effective Term and Year Summer 2026
Course Title Foundations of Mathematics		
Rationale for Change (if more space is required, add a separate page): This is a request from EDUC, they want to make this course EDUC course, since they are exclusively for EDUC graduate students. This is currently co-offered with EDUC. MATH has not taught this for several years.		

Proposed Changes (Check all that apply)

☒ Course number
 ☐ Units*
 ☐ Title
 ☐ Description
 ☒ Prerequisite
 ☒ Other Equivalent statement

Complete only the fields to be changed

FROM	TO
Course Subject/Number MATH 603	Course Subject/Number EDUC 814
Units	Units*
Course Title	Course Title (max 100 characters)
Course Short Title	Course Short Title (max 30 characters)
Description	Description <small>(course descriptions should be brief and should not begin with phrases such as "This course will..." or "The purpose of this course is..." If the grading basis is satisfactory/unsatisfactory include this in the description. Max of 50 words)</small>
Prerequisite Acceptance into the MSc program in mathematics education or permission of the department.	Prerequisite Acceptance into the MEd or MSc program in secondary mathematics education or permission of the department
Other	Other Students with credit for MATH 603 or equivalent may not take this course for further credit

* Program requirements may need to be revised when course units are changed. Please review the calendar and submit any relevant program revisions resulting from this course change.

REMINDER: All course changes must be identified on a cover memo and confirmed as approved when submitted to FGSC and SGSC.

CONTACT PERSON

Department / School / Program Mathematics Graduate Program	Contact name Ladislav Stacho	Contact email lstacho@sfu.ca
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DEPARTMENTAL APPROVAL

Department Graduate Program Committee Ladislav Stacho	Signature Ladislav Stacho	Digitally signed by Ladislav Stacho Date: 2025.04.08 14:04:41 -07'00'	Date 2025-04-07
Department Chair Cedric Chauve	Signature cedric chauve	Digitally signed by cedric chauve Date: 2025.04.08 15:02:01 -07'00'	Date 205-04-07

FACULTY APPROVAL

Faculty Graduate Studies Committee (FGSC) Engida Gebre	Signature Engida Gebre	Digitally signed by Engida Gebre Date: 2025.09.16 12:20:50 -07'00'	Date Sep 15, 2025
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SENATE GRADUATE STUDIES COMMITTEE APPROVAL

Senate Graduate Studies Committee (SGSC) Mary O'Brien	Signature 	Date November 13, 2025
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ADMINISTRATIVE SECTION (for Graduate Studies only)

Course Attribute: _____
Course Attribute Value: _____
Instruction Mode: _____
Attendance Type: _____

If different from regular units:
Academic Progress Units: _____
Financial Aid Progress Units: _____

GRADUATE COURSE CHANGE

Attach a separate document if more space is required.

Course Subject/Number MATH 604	Units 4	Effective Term and Year Summer 2026
Course Title Geometry		
Rationale for Change (if more space is required, add a separate page): This is a request from EDUC, they want to make this course EDUC course, since they are exclusively for EDUC graduate students. This is currently co-offered with EDUC. MATH has not taught this for several years.		

Proposed Changes (Check all that apply)

☒ Course number
 ☐ Units*
 ☒ Title
 ☐ Description
 ☒ Prerequisite
 ☒ Other Equivalent statement

Complete only the fields to be changed

FROM	TO
Course Subject/Number MATH 604	Course Subject/Number EDUC 831
Units	Units*
Course Title Geometry	Course Title (max 100 characters) Geometries
Course Short Title	Course Short Title (max 30 characters)
Description	Description <small>(course descriptions should be brief and should not begin with phrases such as "This course will..." or "The purpose of this course is..." If the grading basis is satisfactory/unsatisfactory include this in the description. Max of 50 words)</small>
Prerequisite Entrance into the MSc in mathematics education program or permission of the department.	Prerequisite Acceptance into the MEd or MSc program in secondary mathematics education or permission of the department
Other	Other Students with credit for MATH 604 or equivalent may not take this course for further credit

* Program requirements may need to be revised when course units are changed. Please review the calendar and submit any relevant program revisions resulting from this course change.

REMINDER: All course changes must be identified on a cover memo and confirmed as approved when submitted to FGSC and SGSC.

CONTACT PERSON

Department / School / Program Mathematics Graduate Program	Contact name Ladislav Stacho	Contact email lstacho@sfu.ca
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DEPARTMENTAL APPROVAL

Department Graduate Program Committee Ladislav Stacho	Signature Ladislav Stacho	Digitally signed by Ladislav Stacho Date: 2025.04.08 14:05:11 -07'00'	Date 2025-04-07
Department Chair Cedric Chauve	Signature cedric chauve	Digitally signed by cedric chauve Date: 2025.04.08 15:02:52 -07'00'	Date 2025-04-07

FACULTY APPROVAL

Faculty Graduate Studies Committee (FGSC) Engida Gebre	Signature Engida Gebre	Digitally signed by Engida Gebre Date: 2025.09.16 12:23:48 -07'00'	Date Sep 16, 2025
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SENATE GRADUATE STUDIES COMMITTEE APPROVAL

Senate Graduate Studies Committee (SGSC) Mary O'Brien	Signature 	Date November 13, 2025
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ADMINISTRATIVE SECTION (for Graduate Studies only)

Course Attribute: _____

Course Attribute Value: _____

Instruction Mode: _____

Attendance Type: _____

If different from regular units:

Academic Progress Units: _____

Financial Aid Progress Units: _____



MEMO

Faculty of
Science

ATTENTION: Senate Graduate Studies Committee

FROM: Vance Williams, Associate Dean Research and Graduate Studies,
Faculty of Science

RE: Proposed Course Changes Fall 2026, Faculty of Science

DATE: October 6, 2025

Dear SGSC,

The following curriculum changes have been approved by the Faculty of Science and are being submitted to the Senate Graduate Studies committee for approval.

The following course changes are being proposed:

MBB 702: Developmental Biology of Cell Signaling

MBB 721: Nucleic Acid

MBB 723: Protein Structure and Function

The following course deletions are being proposed:

~~**MBB 731: Cells and the Environment**~~

~~**MBB 733: Epithelial Cell Biology**~~

~~**MBB 764: From Genome to System**~~

Enclosed are the documents in support of these changes.

Sincerely

A handwritten signature in blue ink that reads "Vance Williams".

Vance Williams

Associate Dean Research and Graduate Studies, Faculty of Science

MOLECULAR BIOLOGY AND BIOCHEMISTRY
Memorandum

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

From: Christopher Beh
MBB Graduate Program Chair

Re: Graduate Course Update: MBB 702

Date: September 26, 2025

We are requesting approval of the following:

GRADUATE COURSE CHANGES:

- **MBB 702: Developmental Biology of Cell Signalling** (course title, course short title, description; form attached)

We are hoping these changes can be submitted to SGSC for their next material deadline of October 8, 2025.

Sincerely,



MBB Graduate Program Chair

GRADUATE COURSE CHANGE

Attach a separate document if more space is required.

Course Subject/Number MBB 702	Units 3	Effective Term and Year Fall 2026
Course Title Developmental Biology of Cell Signalling		
Rationale for Change (if more space is required, add a separate page): This is a combined course, MBB 402/702. The course was revised last year and the title of MBB 402 was changed to "Cell Signalling in Development and Disease". The name of MBB 702 is now being changed to match that of MBB 402.		

Proposed Changes (Check all that apply)

☐ Course number
 ☐ Units*
 ☒ Title
 ☒ Description
 ☐ Prerequisite
 ☐ Other _____

Complete only the fields to be changed

FROM	TO
Course Subject/Number	Course Subject/Number
Units	Units*
Course Title Developmental Biology of Cell Signalling	Course Title (max 100 characters) Cell Signalling in Development and Disease
Course Short Title Dev. Biol. of Cell Signalling	Course Short Title (max 30 characters) Cell Signal. in Dev. & Disease
Description Aspects of developmental and cellular biology in the context of signal transduction pathways. The diverse mechanisms used in cell signalling and how the various approaches to the study of signal transduction in organismal development complement each other will be examined with an emphasis on current literature.	Description <small>(course descriptions should be brief and should not begin with phrases such as "This course will..." or "The purpose of this course is..." If the grading basis is satisfactory/unsatisfactory include this in the description. Max of 50 words)</small> A mechanistic study of signal transduction pathways, their roles in development and disease with an emphasis on groundbreaking and current literature.
Prerequisite	Prerequisite
Other	Other


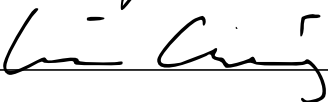
* Program requirements may need to be revised when course units are changed. Please review the calendar and submit any relevant program revisions resulting from this course change.

REMINDER: All course changes must be identified on a cover memo and confirmed as approved when submitted to FGSC and SGSC.

CONTACT PERSON

Department / School / Program MBB	Contact name Laura Thomson	Contact email mbb@sfu.ca
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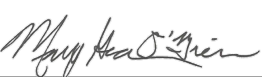
DEPARTMENTAL APPROVAL

Department Graduate Program Committee Christopher Beh	Signature 	Date Sept. 25, 2025
Department Chair Lisa Craig	Signature 	Date Sept. 25, 2025

FACULTY APPROVAL

Faculty Graduate Studies Committee (FGSC) Vance Williams	Signature Vance Williams	<div>Digitally signed by Vance Williams Date: 2025.10.06 13:25:41 -07'00'</div>	Date Oct. 6 2025
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SENATE GRADUATE STUDIES COMMITTEE APPROVAL

Senate Graduate Studies Committee (SGSC) Mary O'Brien	Signature 	Date November 13, 2025
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ADMINISTRATIVE SECTION (for Graduate Studies only)

Course Attribute: _____

Course Attribute Value: _____

Instruction Mode: _____

Attendance Type: _____

If different from regular units:

Academic Progress Units: _____

Financial Aid Progress Units: _____

MOLECULAR BIOLOGY AND BIOCHEMISTRY

Memorandum

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

From: Christopher Beh
MBB Graduate Program Chair

Re: Course Changes: MBB 721, 723
~~**Course Deletions:** MBB 731, 733, 764~~

Date: September 2, 2025

We are requesting approval of the following:

GRADUATE COURSE CHANGES:

- **MBB 721: Nucleic Acid** (course title, course short title, description; form attached)
- **MBB 723: Protein Structure and Function** (course title, course short title, description; form attached)

GRADUATE COURSE DELETIONS:

- ~~**MBB 731: Cells and the Environment**~~ (form attached)
- ~~**MBB 733: Epithelial Cell Biology**~~ (form attached)
- ~~**MBB 764: From Genome to System**~~ (form attached)

We are hoping these changes can be submitted to SGSC for their next material deadline of October 8, 2025.

Sincerely,



MBB Graduate Program Chair

GRADUATE COURSE CHANGE

Attach a separate document if more space is required.

Course Subject/Number MBB 721	Units 3	Effective Term and Year Fall 2026
Course Title Nucleic Acids		
Rationale for Change (if more space is required, add a separate page): Updated course to incorporate biotechnology themes and altered the focus of the course to applications of nucleic acids.		

Proposed Changes (Check all that apply)

☐ Course number
 ☐ Units*
 ☒ Title
 ☒ Description
 ☐ Prerequisite
 ☐ Other _____

Complete only the fields to be changed

FROM	TO
Course Subject/Number	Course Subject/Number
Units	Units*
Course Title Nucleic Acids	Course Title (max 100 characters) Nucleic Acids and Biotechnology
Course Short Title Nucleic Acids	Course Short Title (max 30 characters) Nucleic Acids and Biotech
Description An examination of recent literature about the structure and function of DNA and RNA.	Description <small>(course descriptions should be brief and should not begin with phrases such as "This course will..." or "The purpose of this course is..." If the grading basis is satisfactory/unsatisfactory include this in the description. Max of 50 words)</small> Contemporary molecular biology examining nucleic acid structure and properties and how they are harnessed in research, pharmaceutical, and biotechnological applications.
Prerequisite	Prerequisite
Other	Other

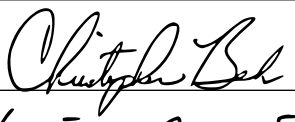

* Program requirements may need to be revised when course units are changed. Please review the calendar and submit any relevant program revisions resulting from this course change.

REMINDER: All course changes must be identified on a cover memo and confirmed as approved when submitted to FGSC and SGSC.


➔ CONTACT PERSON

Department / School / Program Molecular Biology and Biochemistry	Contact name Laura Thomson	Contact email mbb@sfu.ca
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➔ DEPARTMENTAL APPROVAL

Department Graduate Program Committee Christopher Beh	Signature 	Date Aug 15, 2025
Department Chair Lisa Craig	Signature 	Date Aug. 15, 2025

➔ FACULTY APPROVAL

Faculty Graduate Studies Committee (FGSC) Vance Williams	Signature 	Date Oct. 6, 2025
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➔ SENATE GRADUATE STUDIES COMMITTEE APPROVAL

Senate Graduate Studies Committee (SGSC) Mary O'Brien	Signature 	Date November 13, 2025
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ADMINISTRATIVE SECTION (for Graduate Studies only)

Course Attribute: _____

Course Attribute Value: _____

Instruction Mode: _____

Attendance Type: _____

If different from regular units:

Academic Progress Units: _____

Financial Aid Progress Units: _____

GRADUATE COURSE CHANGE

Attach a separate document if more space is required.

Course Subject/Number	MBB 723	Units	3	Effective Term and Year	Fall 2026
Course Title	Protein Structure and Function				
Rationale for Change (if more space is required, add a separate page): This course has been redesigned to investigate the mechanistic principles of proteins in the context of human disease. A discussion of proteins related to human health and their roles in processes such as hemostasis, blood sugar level, nervous system function, toxins and drugs, has been carefully curated to bring new energy and curiosity to the structure and function of proteins.					

Proposed Changes (Check all that apply)

☐ Course number ☐ Units* ☒ Title ☒ Description ☐ Prerequisite ☐ Other _____

Complete only the fields to be changed

FROM	TO
Course Subject/Number	Course Subject/Number
Units	Units*
Course Title Protein Structure and Function	Course Title (max 100 characters) Proteins in Human Health
Course Short Title Protein Structure and Function	Course Short Title (max 30 characters) Proteins in Human Health
Description Mechanistic principles for how protein molecules achieve diverse functions such as chemical catalysis and conformational switching. Students will learn to critique hypotheses about structural mechanisms, and to interpret the primary literature reporting on structural evidence from X-ray diffraction and spectroscopy.	Description (course descriptions should be brief and should not begin with phrases such as "This course will..." or "The purpose of this course is..." If the grading basis is satisfactory/unsatisfactory include this in the description. Max of 50 words) Structure and function of proteins related to human nutrition, blood sugar maintenance, sleep, hydration, blood: type pH pressure and hemostasis, connective tissues, muscle and nerve function.
Prerequisite	Prerequisite
Other	Other



* Program requirements may need to be revised when course units are changed. Please review the calendar and submit any relevant program revisions resulting from this course change.

REMINDER: All course changes must be identified on a cover memo and confirmed as approved when submitted to FGSC and SGSC.


➔ CONTACT PERSON

Department / School / Program Molecular Biology and Biochemistry	Contact name Laura Thomson	Contact email mbb@sfu.ca
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➔ DEPARTMENTAL APPROVAL

Department Graduate Program Committee Christopher Beh	Signature 	Date Aug 19, 2025
Department Chair Lisa Craig	Signature 	Date Aug. 19, 2025

➔ FACULTY APPROVAL

Faculty Graduate Studies Committee (FGSC) Vance Williams	Signature 	Date Oct. 6, 2025
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➔ SENATE GRADUATE STUDIES COMMITTEE APPROVAL

Senate Graduate Studies Committee (SGSC) Mary O'Brien	Signature 	Date November 13, 2025
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ADMINISTRATIVE SECTION (for Graduate Studies only)

Course Attribute: _____

Course Attribute Value: _____

Instruction Mode: _____

Attendance Type: _____

If different from regular units:

Academic Progress Units: _____

Financial Aid Progress Units: _____