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SFU.CA/GRADUATE-STUDIES

MEMORANDUM _____

ATTENTION Senate DATE November 13, 2025
FROM Mary O'Brien,
Chair of Senate Graduate Studies
Committee (SGSC)
RE: Course Change

**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 ScienceDepartment 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

ATTENTION: Senate Graduate Studies Committee

Graduate Studies

8888 University Drive
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www.sfu.ca/education/gs

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

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
Units	Units*
Course Title	Course Title (max 100 characters)
Course Short Title	Course Short Title (max 30 characters)
Description	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)
Prerequisite	Prerequisite Acceptance into the MSc program in mathematics education or permission of the department.
Other	Prerequisite Acceptance into the MEd or MSc program in secondary mathematics education or permission of the department 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 2025-04-07

► FACULTY APPROVAL

Faculty Graduate Studies Committee (FGSC) Engida Gebre	Signature 	Engida Gebre Digitally signed by Engida Gebre Date: 2025.09.16 12:20:50 -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: _____

If different from regular units:

Course Attribute Value: _____

Academic Progress Units: _____

Instruction Mode: _____

Financial Aid Progress Units: _____

Attendance Type: _____

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):					
<p>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.</p>					

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
Units	Units*
Course Title	Course Title (max 100 characters)
Geometry	Geometries
Course Short Title	Course Short Title (max 30 characters)
Description	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)
Prerequisite	Prerequisite Entrance into the MSc in mathematics education program or permission of the department.
Other	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: _____

If different from regular units:

Course Attribute Value: _____

Academic Progress Units: _____

Instruction Mode: _____

Financial Aid Progress Units: _____

Attendance Type: _____

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



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

Re: Graduate Course Update: MBB 702

From: Christopher Beh
MBB Graduate Program Chair

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 (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) 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

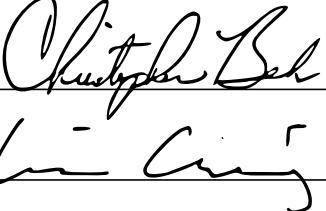
* Program requirements may need to be revised when course units are changed. Please review the calendar and submit any relevant program revisions resulting from this course change.

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 	Digitally signed by Vance Williams Date: 2025.10.06 13:25:41 -07'00'	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: _____

If different from regular units:

Course Attribute Value: _____

Academic Progress Units: _____

Instruction Mode: _____

Financial Aid Progress Units: _____

Attendance Type: _____

MOLECULAR BIOLOGY AND BIOCHEMISTRY

Memorandum

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

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

From: Christopher Beh
MBB Graduate Program Chair

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,



Christopher Beh
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 (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) Contemporary molecular biology examining nucleic acid structure and properties and how they are harnessed in research, pharmaceutical, and biotechnological applications.
Prerequisite	Prerequisite
Other	Other

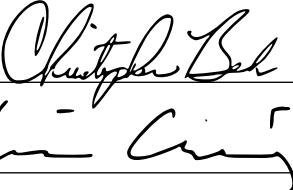
* Program requirements may need to be revised when course units are changed. Please review the calendar and submit any relevant program revisions resulting from this course change.

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: _____

If different from regular units:

Course Attribute Value: _____

Academic Progress Units: _____

Instruction Mode: _____

Financial Aid Progress Units: _____

Attendance Type: _____

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: _____

If different from regular units:

Course Attribute Value: _____

Academic Progress Units: _____

Instruction Mode: _____

Financial Aid Progress Units: _____

Attendance Type: _____