

8888 University Drive, Burnaby, BC Canada V5A 1S6      TEL: 778.782.6654      FAX: 778.782.5876      avpacad@sfu.ca      www.sfu.ca/vpacademic

**MEMORANDUM**

ATTENTION	Senate	DATE	August 2, 2024
FROM	Peter Hall, Chair Senate Committee on Undergraduate Studies	PAGES	1/2
RE:	Program Changes		

**For information:**

Acting under delegated authority at its meeting of August 1, 2024 SCUS approved the following curriculum revisions effective Summer 2025.

**a. Faculty of Arts and Social Sciences (SCUS 24-70)****1. Department of Political Science, Department of French****(i) Requirement changes to the:**

- French Cohort Program in Public and International Affairs French and Francophone Studies Major with a Political Science Extended Minor
- French Cohort Program in Public and International Affairs Political Science Major with a French and Francophone Studies Minor

**b. Beedie School of Business (SCUS 24-71) (Fall 2025)****(i) Addition of Business Courses with Exchange Credit Restrictions for:**

- Business Major
- Business Honours
- Business and Communication Joint Major
- Business and Economics Joint Major
- Business and Psychology Joint Major
- Business, Philosophy and the Law Joint Major
- Geo Business Joint Major
- Interactive Arts and Technology and Business Joint Major BA or BBA
- Interactive Arts and Technology and Business Joint Major BSc
- Sustainable Business Joint Major
- Business and Economics Joint Honours

- Mechatronic Systems Engineering and Business Double Degree Program
- Information Systems in Business Administration and Computing Science Joint Major
- Business Foundation Pathways

**c. Faculty of Environment (SCUS 24-72)**

**1. School of Environmental Science**

(i) Requirement changes to the:

- Environmental Science Major
- Environmental Science Honours

**2. Department of Geography**

(i) Requirement changes to the Physical Geography Honours

**d. Faculty of Science (SCUS 24-73)**

**1. Department of Mathematics**

(i) Upper division requirement changes to the Mathematics Major

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

**Name of Program or Name of Faculty**

Department of Political Science  
French Cohort Program

**Rationale for change:**

Modifications to rectify an outdated version of the FCP curriculum changes being submitted inadvertently to SCUS/Senate in January 2024

**1) Modification to the minimum grade requirements of the French and Francophone Studies Major**

as per the curriculum proposed by the Dept. of French there are no minimum grade requirements for courses (rather, these were applied as prerequisites to specific courses); hence removal of the lower and upper division minimums of C+ for FREN 245, 275, 301W 302 as previously noted

**2) Updates to wording for HIST/INDG courses:**

- with the addition of INDG 101, it was suggested by FASSUCC that we remove the “taught in French” to allow for scenarios where the course may need to be taken in English as the course will not be a cohort-specific offering; students will take it in French *when possible*
- it is clear that HIST 102W/214W is required to be taken in French as “CS” (cohort-specific) is noted; students will also be advised accordingly at the time of enrollment

**Effective term and year:**

Summer 2025

**The following program(s) will be affected by these changes:**

French Cohort Program in Public and International Affairs French and Francophone Studies Major with a Political Science Extended Minor

**Calendar Change:** All deletions should be crossed out as follows: ~~sample~~. All additions should be marked in **bold font**. Do not use “to” and “from” sections.

**BACHELOR OF ARTS**

The French Cohort Program in Public and International Affairs (FCP) consists of a political science major with a French and francophone studies minor, or a French and francophone studies major with a political science extended minor and offers students the opportunity to study in Canada's two official languages. This multidisciplinary program in political science, French, and history is taught primarily in French and includes a student exchange program.

**Admission Requirements**

The FCP normally admits students in the fall term only and is most suitable for those entering directly from French immersion or francophone secondary schools who plan to undertake full-time study. However, admission is not limited to such applicants and all interested students who have a high level of French are encouraged to inquire about admission. A French language placement test will be conducted to verify proficiency prior to enrollment. As the cohort program has a set sequence of courses, those with substantial university transfer credit may need to complete more than the normal 120 units to complete their program.

### Cohort Program

Students follow a set sequence of courses together as a cohort, including many specially designed cohort-specific (CS) courses and course sections taught in French. Some required and elective courses will be taught in English. The FCP Student Advisor will provide information about course offerings and cohort-specific course sequences. See the sample course sequence. CS below denotes cohort-specific courses.

Non-FCP students who wish to enroll in cohort-specific courses taught in French may contact the FCP student advisor to inquire about special permission, providing space is available in the course.

### Program Requirements

Students complete a minimum of 120 units, including all required courses below the French and Francophone Studies Major Requirements and the Political Science Extended Minor Requirements, and at least one term of studies at a francophone university in Canada or abroad, as well as all faculty-level requirements.

Students wishing to complete a double major will complete, in addition to the requirements below, all upper division requirements of the Political Science Major Requirements.

### French and Francophone Studies Major Requirements

Students complete nine lower division units and 30 upper division units. A minimum French cumulative grade point average (CGPA) of 2.0 and French upper division CGPA of 2.0 (calculated on SFU FREN courses only) is required for successful completion of the program.

### LOWER DIVISION FREN REQUIREMENTS

Based on previous experience and/or placement test results, students may be required to complete other lower division coursework prior to or concurrently with these courses.

Students complete the following three courses

FREN 203 - Contemporary Francophone Issues in the Humanities and Social Sciences (3) CS  
FREN 245 - Introduction to French and Francophone Studies (3) \*CS

FREN 275 - French Inside Out: Introduction to French Language, Culture, and Society (3) \*  
~~\*Minimum C+ grade required.~~

#### UPPER DIVISION FREN REQUIREMENTS

Students complete all of the following

both of

FREN 301W - Writing Your Way Toward French Proficiency (3) \*CS

FREN 302 - Critical Thinking & Public Speaking on Contemporary Francophone Cultural, Social & Political Issues (3) \*CS

~~\*Minimum C+ grade required.~~

and an additional 24 upper division units of FREN courses, of which 12 units must be from 400 division FREN courses, and the remaining 12 units can be from a combination of either 300 or 400 division FREN courses. (See the Department of French list of courses.) Normally, the equivalent of at least six upper division units will be selected from transferable French studies courses completed during the mandatory exchange program.

NOTE: SFU students accepted in the accelerated master's within the Department of French may apply a maximum of 10 graduate course units, taken while completing the bachelor's degree, towards the upper division electives of the bachelor's program and the requirements of the master's degree. For more information go to:

<https://www.sfu.ca/gradstudies/apply/programs/accelerated-masters.html> and

<https://www.sfu.ca/students/calendar/programs/french/master-of-arts.html>.

#### Political Science Extended Minor Requirements

Students complete 26 lower division units and 20 upper division units. A minimum political science cumulative grade point average (CGPA) of 2.0 and political science upper division CGPA of 2.0 (calculated on SFU POL courses only) is required for successful completion of the program.

#### LOWER DIVISION POL REQUIREMENTS

Students complete the following six POL courses, of which four will be taught in the French language

POL 100 - Introduction to Politics and Government (3) \*CS

POL 200W - Investigating Politics: Research Design and Qualitative Methods (4) \*

POL 201 - Introductory Quantitative Methods in Political Science (4) \*

POL 210 - Introduction to Political Philosophy (3) \*CS

POL 244 - Canada in the World (3) CS\*\*

POL 253 - Introduction to Public Policy (3) CS

\*Minimum C grade required.

\*\*In lieu of POL 121 or POL 141.

and in lieu of one additional lower division POL course, FCP students complete two courses taught in the French language from the following

INDG 101 - Introduction to Indigenous Studies (3)

and one of

HIST 102W - Canada since Confederation (3) CS

HIST 214W - Quebec Society, Culture, and Politics (3) CS

#### UPPER DIVISION POL REQUIREMENTS

Students complete at least four of the following cohort-specific POL courses taught in French at SFU

POL 325 - Language and Politics (4) CS

POL 347 - Canadian Foreign Policy (4) CS

POL 351 - Immigration, Integration, and Public Policy in Canada (4) CS

POL 359 - Selected Topics in Governance (4) CS

POL 459 - Selected Topics in Governance (4) CS

POL 463 - Diversity in Cities (4) CS

POL 472 - Diplomacy and Global Governance (4) CS

POL 497 - Experiential Learning in Political Science (4)

and one of

HIST 430 - French Americas (4) CS

HIST 436 - British Columbia (4) CS

#### FCP French Language Requirements

French cohort program students are required to complete a minimum of 73 units of courses taught in French, including courses taken at a francophone university in Canada or abroad during the exchange program.

Canadian college and university transfer students and SFU students who wish to change programs will normally have to complete this required minimum. Exceptions to this requirement may be made following a French language assessment and/or if a lower division course equivalence is granted. However, all required upper division courses taught in French are required to be taken at SFU. Final decision is made on a case-by-case basis by the FCP administration in agreement with the departments.

**Name of Program or Name of Faculty**

Department of Political Science  
French Cohort Program

**Rationale for change:**

Modifications to rectify an outdated version of the FCP curriculum changes being submitted inadvertently to SCUS/Senate in January 2024

**1) Modification to the minimum grade requirements of the French and Francophone Studies Major**

as per the curriculum proposed by the Dept. of French there are no minimum grade requirements for courses (rather, these were applied as prerequisites to specific courses); hence removal of the lower and upper division minimums of C+ for FREN 245, 275, 301W 302 as previously noted

**2) Updates to wording for HIST/INDG courses:**

- with the addition of INDG 101, it was suggested by FASSUCC that we remove the “taught in French” to allow for scenarios where the course may need to be taken in English as the course will not be a cohort-specific offering; students will take it in French *when possible*
- it is clear that HIST 102W/214W is required to be taken in French as “CS” (cohort-specific) is noted; students will also be advised accordingly at the time of enrollment

**Effective term and year:**

Summer 2025

**The following program(s) will be affected by these changes:**

French Cohort Program in Public and International Affairs Political Science Major with a French and Francophone Studies Minor

**Calendar Change:** All deletions should be crossed out as follows: **sample**— All additions should be marked in **bold font**. Do not use “to” and “from” sections.

**BACHELOR OF ARTS**

The French Cohort Program in Public and International Affairs (FCP) consists of a political science major with a French and francophone studies minor, or a French and francophone studies major with a political science extended minor and offers students the opportunity to study in Canada's two official languages. This multidisciplinary program in political science, French, and history is taught primarily in French and includes a student exchange program.

**Admission Requirements**

The FCP normally admits students in the fall term only and is most suitable for those entering directly from French immersion or francophone secondary schools who plan to undertake full-time study. However, admission is not limited to such applicants and all interested students who have a high level of French are encouraged to inquire about admission. A French language placement test will be conducted to verify proficiency prior to enrollment. As the cohort program has a set sequence of courses, those with substantial university transfer credit may need to complete more than the normal 120 units to complete their program.

### Cohort Program

Students follow a set sequence of courses together as a cohort, including many specially designed cohort-specific courses and course sections taught in French. Some required and elective courses will be taught in English. The FCP Student Advisor will provide information about course offerings and cohort-specific course sequences. See the sample course sequence. CS below denotes cohort-specific courses.

Non-FCP students who wish to enroll in cohort-specific courses taught in French may contact the FCP student advisor to inquire about special permission, providing space is available in the course.

### Program Requirements

Students complete a minimum of 120 units, including all required courses below the Political Science Major Requirements and the French and Francophone Studies Minor Requirements, and at least one term of studies at a francophone university in Canada or abroad, as well as all faculty-level requirements.

Students wishing to complete a double major will complete, in addition to the requirements below, all upper division requirements of the French and Francophone Studies Major Requirements.

### Political Science Major Requirements

Students complete 26 lower division units and 36 upper division units. A minimum political science cumulative grade point average (CGPA) of 2.0 and political science upper division CGPA of 2.0 (calculated on SFU POL courses only) is required for successful completion of the program.

### LOWER DIVISION POL REQUIREMENTS

Students complete the following six POL courses, of which four will be taught in the French language

POL 100 - Introduction to Politics and Government (3) \*CS

POL 200W - Investigating Politics: Research Design and Qualitative Methods (4) \*

POL 201 - Introductory Quantitative Methods in Political Science (4) \*

POL 210 - Introduction to Political Philosophy (3) \*CS

POL 244 - Canada in the World (3) CS\*\*

POL 253 - Introduction to Public Policy (3) CS

\*Minimum C grade required.

\*\*In lieu of POL 121 or POL 141.

and in lieu of one additional lower division POL course, FCP students complete two courses taught in the French language from the following

INDG 101 - Introduction to Indigenous Studies (3)

and one of

HIST 102W - Canada since Confederation (3) CS

HIST 214W - Quebec Society, Culture, and Politics (3) CS

#### UPPER DIVISION POL REQUIREMENTS

Students complete at least four of the following cohort-specific POL courses taught in French at SFU

POL 325 - Language and Politics (4) CS

POL 347 - Canadian Foreign Policy (4) CS

POL 351 - Immigration, Integration, and Public Policy in Canada (4) CS

POL 359 - Selected Topics in Governance (4) CS

POL 459 - Selected Topics in Governance (4) CS

POL 463 - Diversity in Cities (4) CS

POL 472 - Diplomacy and Global Governance (4) CS

POL 497 - Experiential Learning in Political Science (4) CS

and an additional 16 upper division units of POL courses are required. Eight of these 32 required upper division POL units must be from 400 division courses. Normally, the equivalent of at least eight upper division units will be selected from transferable political science courses completed in French during the mandatory exchange program.

and one of

HIST 430 - French Americas (4) CS

HIST 436 - British Columbia (4) CS

#### French and Francophone Studies Minor Requirements

Students complete nine lower division units and 18 upper division units. A minimum French cumulative grade point average (CGPA) of 2.0 and French upper division CGPA of 2.0 (calculated on SFU FREN courses only) is required for successful completion of the program.

#### LOWER DIVISION FREN REQUIREMENTS

Based on previous experience and/or placement test results, students may be required to complete other lower division coursework prior to or concurrently with these courses.

Students complete the following three courses

FREN 203 - Contemporary Francophone Issues in the Humanities and Social Sciences (3) CS

FREN 245 - Introduction to French and Francophone Studies (3)\*CS

FREN 275 - French Inside Out: Introduction to French Language, Culture, and Society (3)\*

~~\*Minimum C+ grade required.~~

#### UPPER DIVISION FREN REQUIREMENTS

Students complete all of the following

both of

FREN 301W - Writing Your Way Toward French Proficiency (3)\*CS

FREN 302 - Critical Thinking & Public Speaking on Contemporary Francophone Cultural, Social & Political Issues (3) \*CS

~~\*Minimum C+ grade required.~~

and an additional 12 upper division units of FREN courses, of which six units must be from 400 division FREN courses, and the remaining six units can be from a combination of either 300 or 400 division FREN courses. (See the Department of French list of courses.)

NOTE: SFU students accepted in the accelerated master's within the Department of French may apply a maximum of 10 graduate course units, taken while completing the bachelor's degree, towards the upper division electives of the bachelor's program and the requirements of the master's degree. For more information go to:

<https://www.sfu.ca/gradstudies/apply/programs/accelerated-masters.html> and

<https://www.sfu.ca/students/calendar/programs/french/master-of-arts.html>.

#### FCP French Language Requirement

French cohort program students are required to complete a minimum of 73 units of courses taught in French, including courses taken at a francophone university in Canada or abroad during the exchange program.

Canadian college and university transfer students and SFU students who wish to change programs will normally have to complete this required minimum. Exceptions to this requirement may be made following a French language assessment and/or if a lower division course equivalence is granted. However, all required upper division courses taught in French are required to be taken at SFU. Final decision is made on a case-by-case basis by the FCP administration in agreement with the departments.

**Name of Program or Name of Faculty**

Beedie School of Business

**Rationale for change:**

Clearer articulation in BsB programs on which course student pursuing exchange must take at SFU.

**Effective term and year:**

Fall 2025

**The following program(s) will be affected by these changes:**

Business Major

Business Honours

Business and Communication Joint Major

Business and Economics Joint Major

Business and Psychology Joint Major

Business, Philosophy and the Law Joint Major

Geo Business Joint Major

Interactive Arts and Technology and Business Joint Major BA or BBA

Interactive Arts and Technology and Business Joint Major BSc

Sustainable Business Joint Major

Business and Economics Joint Honours

**Calendar Change:** All deletions should be crossed out as follows: ~~sample~~. All additions should be marked in **bold font**. Do not use “to” and “from” sections.

## Business courses with exchange credit Restrictions

For more information, click [here](#).

### Residency Requirements and Transfer Credit

- At least half of the program's total units must be earned through Simon Fraser University study.
- At least two thirds of the program's total upper division units must be earned through Simon Fraser University study.

**Name of Program or Name of Faculty**

Beedie School of Business

**Rationale for change:**

Clearer articulation in BsB programs on which course student pursuing exchange must take at SFU.

**Effective term and year:**

Fall 2025

**The following program(s) will be affected by these changes:**

Mechatronic Systems Engineering and Business Double Degree Program

**Calendar Change:** All deletions should be crossed out as follows: ~~sample~~. All additions should be marked in **bold font**. Do not use “to” and “from” sections.

## Business courses with exchange credit Restrictions

For more information, click [here](#).

## Residency Requirements

For students in this double degree program, the general university requirements are modified by reduction of the Humanities (B-Hum) breadth requirement from six units to three units. The B-Hum should be taken during one of the optional co-op terms.

The University's residency requirement stipulates that, in most cases, total transfer and course challenge credit may not exceed 60 units, and may not include more than 15 units as upper division work.

At least half of the program's total units must be earned through Simon Fraser University study.

At least two thirds of the program's total upper division units must be earned through Simon Fraser University study.

At least two thirds of the upper division units in the courses of a school offering (or joint offering) a program must be earned through that school at Simon Fraser University.

**Name of Program or Name of Faculty**

Beedie School of Business

**Rationale for change:**

Clearer articulation in BsB programs on which course student pursuing exchange must take at SFU.

**Effective term and year:**

Fall 2025

**The following program(s) will be affected by these changes:**

Information Systems in Business Administration and Computing Science Joint Major

**Calendar Change:** All deletions should be crossed out as follows: ~~sample~~. All additions should be marked in **bold font**. Do not use “to” and “from” sections.

## Business courses with exchange credit Restrictions

For more information, click [here](#).

## Residency Requirements and Transfer Credit

- At least half of the program's total units must be earned through Simon Fraser University study.
- At least two thirds of the program's total upper division units must be earned through Simon Fraser University study.

Please see Faculty of Applied Sciences Residency Requirements for further information.

**Name of Program or Name of Faculty**

Beedie School of Business

**Rationale for change:**

Clearer articulation in BsB programs on which course student pursuing exchange must take at SFU.

**Effective term and year:**

Fall 2025

**The following program(s) will be affected by these changes:**

Business Foundation Pathways

**Calendar Change:** All deletions should be crossed out as follows: ~~sample~~. All additions should be marked in **bold font**. Do not use “to” and “from” sections.

**Transfer Pathway**

In their first term, students must complete

BUS 202 - Foundations of Business (3)

BUS 203 - Professional Development - Launch (1)

and are required to take three to four additional business courses and/or elective course(s) that may be applied toward the non-Business requirement within the bachelor of business administration or toward the university's WQB requirements.

## **Business courses with exchange credit Restrictions**

For more information, click [here](#).

<b>Name of Program or Name of Faculty</b>
Environmental Science
<b>Rationale for change:</b>
The School of Environmental Science and the Department of Archaeology have jointly decided to delete the Environmental Archaeology stream (sub plan). This decision is due to a lack of enrolment and the recognition that the educational goals of the stream are not met in any Environmental Science courses.
<b>Effective term and year:</b>
Summer 2025
<b>The following program(s) will be affected by these changes:</b>
Environmental Science Major and Honours

**Calendar Change:** All deletions should be crossed out as follows: ~~sample~~— All additions should be marked in **bold font**. Do not use “to” and “from” sections.

## Environmental Science Major

### BACHELOR OF SCIENCE

This bachelor of science (BSc) degree offers students the option of completing either the general environmental science stream or one of ~~five~~ **four** specialized streams that include applied biology, ~~environmental archaeology~~, environmental earth systems, environmetrics, and water science. Students declare their stream by meeting with their academic advisor or submitting the online form.

...

### ~~Environmental Archaeology Stream~~

~~This stream is for students interested in studying deep-time human-environment interactions with emphasis on the long-term impact of human activities on terrestrial and coastal ecosystems. Students will receive training in archaeology, geomorphology, paleoecology, paleoclimatology, and quantitative analysis of Indigenous, historic,~~

prehistoric, and paleontological environmental data archives and will be able to enter the environmental archaeology consulting workforce.

**LOWER DIVISION REQUIREMENTS**

Students who choose this stream will also complete all of

ARCH 101 - Reconstructing the Human Past (3)

ARCH 131 - Human Origins (3)

ARCH 282 - Material Culture Analysis (4)

and one of

EASC 101 - Dynamic Earth (3)

EVSC 206 - Coastal Marine Science (3)

GEOG 111 - Earth Systems (3)

REM 100 - Global Change (3)

and one of

ARCH 272W - Archaeology of the Old World (4)

ARCH 273 - Archaeology of the New World (3)

**UPPER DIVISION REQUIREMENTS**

Students complete all of

ARCH 340 - Zooarchaeology (5)

ARCH 388 - Geoarchaeology (4)

ARCH 390 - Archaeobotany (4)

and at least one of

EVSC 320 - Watershed Ecology (4)

EVSC 334 - Earth's Past Climates (4) or REM 334 - Earth's Past Climates (4)

EVSC 395 - Special Topics in Environmental Science (3) \*

EVSC 410 - River Restoration (4)

EVSC 445 - Environmental Data Analysis (4)

EVSC 460 - Ecogeomorphology (4)

EVSC 495 - Special Topics in Environmental Science (3) \*

and at least two of

ARCH 329 - Special Topics in Environmental Archaeology (3)

ARCH 363 - Landscape Archaeology (3)

ARCH 365 - Archaeological Perspectives on Human Ecology (3)

~~ARCH 376 - Quantitative Methods in Archaeology (4)~~  
~~ARCH 383 - Ancient and Forensic DNA (3)~~  
~~ARCH 389 - Ethnoecology (3)~~  
~~ARCH 425 - Archaeometry (3)~~  
~~ARCH 428 - Soil Micromorphology (5)~~  
~~ARCH 431 - Historical Ecology & Coastal Archaeology (3)~~  
~~ARCH 480 - Directed Laboratory/Library/Field Research (0)~~

\* Requires approval from the Director or school designate, to be acquired through the Academic Advisor, for use in the stream

# Environmental Science Honours

## BACHELOR OF SCIENCE

This bachelor of science (BSc) degree offers students the option of completing either the general environmental science stream or one of ~~five~~ ~~four~~ specialized streams that include applied biology, ~~environmental archaeology~~, environmental earth systems, environmetrics, and water science. Students declare their stream by meeting with their academic advisor or submitting the online form.

...

### **Environmental Archaeology Stream**

This stream is for students interested in studying deep time human-environment interactions with emphasis on the long-term impact of human activities on terrestrial and coastal ecosystems. Students will receive training in archaeology, geomorphology, paleoecology, paleoclimatology, and quantitative analysis of Indigenous, historic, prehistoric, and paleontological environmental data archives and will be able to enter the environmental archaeology consulting workforce.

#### **LOWER DIVISION REQUIREMENTS**

Students who choose this stream will also complete all of

~~ARCH 101 - Reconstructing the Human Past (3)~~  
~~ARCH 131 - Human Origins (3)~~  
~~ARCH 282 - Material Culture Analysis (4)~~

and one of

EASC 101 - Dynamic Earth (3)  
EVSC 206 - Coastal Marine Science (3)  
GEOG 111 - Earth Systems (3)  
REM 100 - Global Change (3)

and one of

ARCH 272W - Archaeology of the Old World (4)  
ARCH 273 - Archaeology of the New World (3)

**UPPER DIVISION REQUIREMENTS**

Students complete all of

ARCH 340 - Zooarchaeology (5)  
ARCH 388 - Geoarchaeology (4)  
ARCH 390 - Archaeobotany (4)

and at least one of

EVSC 320 - Watershed Ecology (4)  
EVSC 334 - Earth's Past Climates (4) or REM 334 - Earth's Past Climates (4)  
EVSC 395 - Special Topics in Environmental Science (3) \*  
EVSC 410 - River Restoration (4)  
EVSC 445 - Environmental Data Analysis (4)  
EVSC 460 - Ecogeomorphology (4)  
EVSC 495 - Special Topics in Environmental Science (3) \*

and at least two of

ARCH 329 - Special Topics in Environmental Archaeology (3)  
ARCH 363 - Landscape Archaeology (3)  
ARCH 365 - Archaeological Perspectives on Human Ecology (3)  
ARCH 376 - Quantitative Methods in Archaeology (4)  
ARCH 383 - Ancient and Forensic DNA (3)  
ARCH 389 - Ethnoecology (3)  
ARCH 425 - Archaeometry (3)  
ARCH 428 - Soil Micromorphology (5)  
ARCH 431 - Historical Ecology & Coastal Archaeology (3)  
ARCH 480 - Directed Laboratory/Library/Field Research (0)

\* Requires approval from the Director or school designate, to be acquired through the Academic Advisor, for use in the stream

<b>Name of Program or Name of Faculty</b> Department of Geography
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**Rationale for change:**

To ensure consistency between the major and the honours of the Bachelor of Science, Physical Geography, Geoscience Stream. The major requirement was changed but the honours was not.

<b>Effective term and year:</b> Summer 2025
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<b>The following program(s) will be affected by these changes:</b>
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Physical Geography Honours
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**Calendar Change:** “to” and “from” sections are not required. All deletions should be crossed out as follows: ~~sample~~. All additions should be marked by a **bold**.

<b>GEOSCIENCE STREAM</b>
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The Professional Environmental Geoscience syllabus requirements of EGBC (Engineers and Geoscientists of British Columbia) can be met through this stream. Students must choose elective courses in consultation with an academic advisor because EGBC has specific groupings of elective courses in its Environmental Geoscience syllabus.

In addition to the common requirements as shown above, students who choose this stream will also complete 27 units, including all of

EASC 201 - Stratigraphy and Sedimentation (3)  
EASC 202 - Introduction to Mineralogy (3)  
EASC 204 - Structural Geology I (3)  
EASC 210 - Evolving Earth (3)  
GEOG 213 - Introduction to Geomorphology (3)  
GEOG 214 - Weather and Climate (3)

and one of

BISC 204 - Ecology (3)  
GEOG 215 - The Biosphere (3)

and one of

~~EASC 205 – Introduction to Petrology (3)~~

EASC 207 - Introduction to Applied Geophysics (3)

**EASC 313 - Introduction to Soil and Rock Engineering (3)**

and one of

GEOG 253 - Introduction to Remote Sensing (3)

GEOG 255 - Geographical Information Science I (3)

**Name of Program or Name of Faculty**

Mathematics Major

**Rationale for change:**

1. Update course name of MATH 360 to "Introduction to Biomathematics."
2. Inclusion of CMPT 476 as equivalent to MACM 476

**Effective term and year:** Summer 2025**The following program(s) will be affected by these changes:**

Mathematics Major

**Calendar Change:** All deletions should be crossed out as follows: ~~sample~~. All additions should be marked in **bold font**. Do not use "to" and "from" sections.

Program Requirements

[...]

Upper Division Requirements

[...]

and one of

MACM 316 - Numerical Analysis I (3)

MATH 309 - Continuous Optimization (3)

MATH 348 - Introduction to Probabilistic Models (3)

~~MATH 360 - Modeling with Ordinary Differential Equations (3)~~

**MATH 360 - Introduction to Biomathematics (3)**

[...]

Within the 30 program units, students must complete nine units of 400 level course work, as outlined below (excluding directed studies, job practicum, or honours essay courses):

- six units of MATH or MACM courses<sup>▲</sup>
- three units of courses from the list of PHYS and STAT courses above (within the six allowed units) or three units of any other MATH or MACM course.

**<sup>▲</sup>CMPT 476 is equivalent to MACM 476**

NOTE: SFU students accepted in the accelerated master's within the Department of Mathematics may apply a maximum of 10 graduate course units, taken while completing the bachelor's degree, towards the upper division electives of the bachelor's program and the requirements of the master's degree. For more information go to: <https://www.sfu.ca/gradstudies/apply/programs/accelerated-masters.html>.