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**MEMORANDUM**

ATTENTION	Senate	DATE	April 8, 2022
FROM	Wade Parkhouse, Chair Senate Committee on Undergraduate Studies	PAGES	1/2
RE:	Course Changes (SCUS 22-28)		

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**For information:**

Acting under delegated authority at its meeting of April 7, 2022 SCUS approved the following curriculum revisions effective Spring 2023.

**a. Faculty of Applied Sciences**1. School of Sustainable Energy Engineering

(i) Equivalent statement changes to SEE 100 and 300

2. School of Mechatronic Systems Engineering

(i) Equivalent statement changes for MSE 100 and 300

3. School of Engineering Science

(i) Equivalent statement changes for ENSC 410 and 411

**b. Faculty of Arts and Social Sciences**1. Department of Political Science

(i) Temporarily withdraw POL 451

2. Department of Psychology

- (i) Temporarily withdraw PSYC 389

**c. Faculty of Communication, Art and Technology**

1. Publishing Program

- (i) Units and equivalent statement changes to PUB 410 (Fall 2022)

2. School of Interactive Art and Technology

- (i) Prerequisite change for IAT 167

**d. Faculty of Environment**

1. Department of Geography

- (i) Prerequisite change for GEOG 340

**e. Faculty of Science**

1. Department of Earth Sciences

- (i) Prerequisite change for EASC 405
- (ii) Title and description change for EASC 413

2. Department of Molecular Biology and Biochemistry

- (i) Course number, prerequisite and equivalent statement changes for MBB 243
- (ii) Description change for MBB 322

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>.

<b>COURSE SUBJECT</b>	SEE	<b>NUMBER</b>	100	<b>TITLE</b>	Engineering Graphics and Software for Design
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**TYPE OF CHANGES.** Please type 'X' for the appropriate revision(s):

Course number	<input type="checkbox"/>	Units	<input type="checkbox"/>	Prerequisite	<input type="checkbox"/>
Title	<input type="checkbox"/>	Description	<input type="checkbox"/>	Equivalent Statement	<input checked="" type="checkbox"/>

**WORDING/DESCRIPTION EDITS.** Indicate deleted or changed text using ~~strike through~~, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

Students with credit for ~~ENSC 104~~, MSE 100, or IAT 106 may not take this course for further credit.

**EFFECTIVE TERM AND YEAR FOR CHANGES**

Fall, Spring, Summer and year (please enter in textbox)

Spring 2023



**RATIONALE** (must be included)

ENSC 104 has been discontinued.

COURSE SUBJECT  NUMBER  TITLE

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**TYPE OF CHANGES.** Please type 'X' for the appropriate revision(s):

Course number	<input type="checkbox"/>	Units	<input type="checkbox"/>	Prerequisite	<input type="checkbox"/>
Title	<input type="checkbox"/>	Description	<input type="checkbox"/>	Equivalent Statement	<input checked="" type="checkbox"/>

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Students with credit for ~~ENSC 201, ENSC 311, ENSC 410, ENSC 411, or MSE 300~~ may not take this course for further credit.

**EFFECTIVE TERM AND YEAR FOR CHANGES**

Fall, Spring, Summer and year (please enter in textbox)



**RATIONALE** (must be included)

ENSC 201 and ENSC 311 have been discontinued.  
ENSC 411 was last ran in 2014.  
ENSE 410 and SEE 300 course contents don't match anymore.

<b>COURSE SUBJECT</b>	MSE	<b>NUMBER</b>	100	<b>TITLE</b>	Engineering Graphics and Design
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**TYPE OF CHANGES.** Please type 'X' for the appropriate revision(s):

Course number	<input type="checkbox"/>	Units	<input type="checkbox"/>	Prerequisite	<input type="checkbox"/>
Title	<input type="checkbox"/>	Description	<input type="checkbox"/>	Equivalent Statement	<input checked="" type="checkbox"/>

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Students with credit for ~~ENSC 104~~ or SEE 100 may not take MSE 100 for further credit.

**EFFECTIVE TERM AND YEAR FOR CHANGES**

Fall, Spring, Summer and year (please enter in textbox)

Spring 2023

**RATIONALE** (must be included)

ENSC 104 has not been offered since 2012 and there are no plans to offer it in the future.



COURSE SUBJECT  NUMBER  TITLE

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**TYPE OF CHANGES.** Please type 'X' for the appropriate revision(s):

Course number	<input type="checkbox"/>	Units	<input type="checkbox"/>	Prerequisite	<input type="checkbox"/>
Title	<input type="checkbox"/>	Description	<input type="checkbox"/>	Equivalent Statement	<input checked="" type="checkbox"/>

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Students with credit for SEE 300 ~~ENSC 201, ENSC 311, ENSC 410 or ENSC 411~~ may not take MSE 300 for further credit.

**EFFECTIVE TERM AND YEAR FOR CHANGES**

Fall, Spring, Summer and year (please enter in textbox)

**RATIONALE** (must be included)

ENSC 201 has not been offered since 2014 and there are no plans to offer it in the future.  
ENSC 311 has not been offered since 2012 and there are no plans to offer it in the future.  
ENSC 411 has not been offered since 2014 and there are no plans to offer it in the future.

ENSC 410 and MSE 300 course content does not match.



COURSE SUBJECT  NUMBER  TITLE

**TYPE OF CHANGES.** Please type 'X' for the appropriate revision(s):

Course number	<input type="checkbox"/>	Units	<input type="checkbox"/>	Prerequisite	<input type="checkbox"/>
Title	<input type="checkbox"/>	Description	<input type="checkbox"/>	Equivalent Statement	<input checked="" type="checkbox"/>

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Students with credit for ENSC 201, or ENSC 411, ~~MSE 300 or SEE 300~~ cannot complete this course for further credit.

**EFFECTIVE TERM AND YEAR FOR CHANGES**

Fall, Spring, Summer and year (please enter in textbox)

**RATIONALE** (must be included)

MSE300, SEE300 and ENSC 410 course contents do not match now.

<b>COURSE SUBJECT</b>	ENSC	<b>NUMBER</b>	411	<b>TITLE</b>	The Business of Entrepreneurial Engineering
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**TYPE OF CHANGES.** Please type 'X' for the appropriate revision(s):

Course number	<input type="checkbox"/>	Units	<input type="checkbox"/>	Prerequisite	<input type="checkbox"/>
Title	<input type="checkbox"/>	Description	<input type="checkbox"/>	Equivalent Statement	<input checked="" type="checkbox"/>

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Students with credit for ENSC 201; or ENSC 410; ~~MSE 300 or SEE 300~~ cannot complete this course for further credit.

**EFFECTIVE TERM AND YEAR FOR CHANGES**

Fall, Spring, Summer and year (please enter in textbox)

Spring 2023

**RATIONALE** (must be included)

MSE300, SEE300 and ENSC 411 course contents do not match now.



MEMO

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**ATTENTION** Lara Campbell Error! Bookmark not defined.**TEL**

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**FROM** Aaron Hoffman

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**RE** Mothballing POL 451

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**DATE** March 10, 2022**TIME**

The Department of Political Science would like to mothball the course Pol 451 Public Policy Analysis. The primary faculty member who taught the course has not taught the course in many years and has no plans to do so again in the future.

Please note: Political Science intends to keep Pol 451W on the books as an active course.

*Aaron M. Hoffman*

Best, Aaron Hoffman  
Chair, Undergraduate



MEMO

<b>ATTENTION</b> Lara Campbell	<b>TEL</b>
<b>FROM</b> Rebecca Cobb	
<b>RE</b> Mothballing PSYC 389	
<b>DATE</b> March 6, 2022	<b>TIME</b>

The Department of Psychology would like to mothball the course PSYC 389 Emotion and Motivation. The primary faculty member who taught the course retired.

Best, Rebecca J. Cobb, PhD  
Associate Chair, Undergraduate

<b>COURSE SUBJECT</b>	PUB	<b>NUMBER</b>	410	<b>TITLE</b>	Elements of Indigenous Style: Indigenous Editing Practices
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**TYPE OF CHANGES.** Please type 'X' for the appropriate revision(s):

Course number	<input type="checkbox"/>	Units	<input checked="" type="checkbox"/>	Prerequisite	<input type="checkbox"/>
Title	<input type="checkbox"/>	Description	<input type="checkbox"/>	Equivalent Statement	<input checked="" type="checkbox"/>

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PUB 410 - Elements of Indigenous Style: Indigenous Editing Practices (~~3~~) (4)

Students with credit for ~~INDG 322~~ INDG 410 or PUB 480, under the title "Indigenous Editing"; may not take this course for further credit.

**EFFECTIVE TERM AND YEAR FOR CHANGES**

Fall, Spring, Summer and year (please enter in textbox)

Fall 2022

**RATIONALE** (must be included)

- Course modifications to PUB 410 Elements of Indigenous Style: Indigenous Editing Practices
- Correction to the number of units from 3 to 4 to align with INDG 410 (4)
  - Change to two-way equivalency statement, to delete INDG 322 (which ended up not being offered), and to align language for equivalency statement with INDG 410 – Elements of Indigenous Style: Indigenous Editing Practices, which is cross-listed with PUB 410.

<b>COURSE SUBJECT</b>	IAT	<b>NUMBER</b>	167	<b>TITLE</b>	Digital Games: Genre, Structure, Programming and Play
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**TYPE OF CHANGES.** Please type 'X' for the appropriate revision(s):

Course number	<input type="checkbox"/>	Units	<input type="checkbox"/>	Prerequisite	<input checked="" type="checkbox"/>
Title	<input type="checkbox"/>	Description	<input type="checkbox"/>	Equivalent Statement	<input type="checkbox"/>

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Prerequisite: CMPT ~~166~~ 120 (or equivalent first year programming course such as CMPT 102, ~~120~~, 125, 126, 128, 130, ~~or~~ 135, or 166) with a minimum grade of C-.

**EFFECTIVE TERM AND YEAR FOR CHANGES**

Fall, Spring, Summer and year (please enter in textbox)

Spring 2023



**RATIONALE** (must be included)

CMPT 166 is no longer regularly offered and CMPT 120 is a suitable replacement. We need to change the calendar language for our Majors to reflect this change in focus for new admits and students. CMPT 166 will need to be kept as an option for students who still remain in the program from when CMPT 120 was unavailable.

While making the CMPT 120 changes to our program requirements we also noted that the list of equivalencies in the IAT 167 pre-requisites did not include CMPT 102. CMPT 102 is included in the equivalences for the program requirements and we thought it best to make this consistent as well.

COURSE SUBJECT

GEOG

340

TITLE

Queer Geographies

**TYPE OF CHANGES.** Please type 'X' for the appropriate revision(s):Course  
number

Units

Prerequisite 

Title

Description Equivalent  
Statement **WORDING/DESCRIPTION EDITS.** Indicate deleted or changed text using ~~strike through~~, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

What does sexuality have to do with spaces and places? This question is at the core of this course where we'll examine how sexual norms and queerness are defined and defied through different geographies. We will learn how Black, Indigenous, and queers of colour think about and build social movements at the intersection of sexuality, space, and place.

**PREREQUISITES:**

At least 45 units, including GEOG 100 or GSWS 100 or GSWS 101 or GSWS 102 or INDG 101 or SA 101 or HSCI 120 or CMNS 130.

**EFFECTIVE TERM AND YEAR FOR CHANGES**

Fall, Spring, Summer and year (please enter in textbox)

Spring 2023

**RATIONALE** (must be included)

The addition of courses to the course prerequisites is meant to open up student participation among those who may be interested in taking Geog 340 but have not yet taken Geog 100.

<b>COURSE SUBJECT</b>	EASC	<b>NUMBER</b>	405	<b>TITLE</b>	Water, Environment, and Climate Change
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**TYPE OF CHANGES.** Please type 'X' for the appropriate revision(s):

Course number	<input type="checkbox"/>	Units	<input type="checkbox"/>	Prerequisite	<input checked="" type="checkbox"/>
Title	<input type="checkbox"/>	Description	<input type="checkbox"/>	Equivalent Statement	<input type="checkbox"/>

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Prerequisite: ~~EASC 315, or both EASC 304 and or~~ GEOG 311, All with a grade of C- or better.

**EFFECTIVE TERM AND YEAR FOR CHANGES**

Fall, Spring, Summer and year (please enter in textbox)

Spring, 2023

A background in one hydrological science course is needed for EASC 405. Therefore, either EASC 304 or GEOG 311 is sufficient as a prerequisite.

Note: EASC 315 requires EASC 304. EASC 315 focuses on the geochemistry of natural waters, a topic that is unnecessary for EASC 405.

**RATIONALE** (must be included)

**COURSE SUBJECT**  **NUMBER**  **TITLE**

**TYPE OF CHANGES.** Please type 'X' for the appropriate revision(s):

Course number	<input type="checkbox"/>	Units	<input type="checkbox"/>	Prerequisite	<input type="checkbox"/>
Title	<input checked="" type="checkbox"/>	Description	<input checked="" type="checkbox"/>	Equivalent Statement	<input type="checkbox"/>

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**EASC413 Engineering Geology and Resource Geotechnics**

Application of engineering geology and geotechnics to natural hazards and engineering projects, with emphasis on the resource sector, including with particular emphasis on energy, forestry and minerals. Topics covered will include: engineering geological characterization, slope failure mechanisms in soil and rock, methods of slope stability analysis, seismically induced landslides, landslide mapping and hazard analysis, techniques of slope reinforcement and stabilization, slope monitoring, and geotechnical site assessment for construction of roads construction and deactivation, dams, open pits and underground excavations and petroleum geotechnics. Brief case studies will be used to illustrate the influence of geotechnics in the forestry, mining and ~~the petroleum~~ energy industries. Prerequisite: EASC 313 with a grade of C- or better or permission of instructor.

**EFFECTIVE TERM AND YEAR FOR CHANGES**

Fall, Spring, Summer and year (please enter in textbox)

**RATIONALE (must be included)**

The rationale for these changes is to expand the scope of the course beyond the resource sector and include engineering geology applications in the areas of natural hazard assessment and other civil works such as dams and tunnels. Additionally, inclusion of case studies that highlight applications to energy resources beyond the petroleum sector, such as hydropower and geothermal energy is needed to broaden the students' experience. These changes also better reflect the expertise and experience of the course instructor.

<b>COURSE SUBJECT</b>	MBB	<b>NUMBER</b>	243	<b>TITLE</b>	Data Analysis for Molecular Biology and Biochemistry
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**TYPE OF CHANGES.** Please type 'X' for the appropriate revision(s):

Course number	<input checked="" type="checkbox"/>	Units	<input type="checkbox"/>	Prerequisite	<input checked="" type="checkbox"/>
Title	<input type="checkbox"/>	Description	<input type="checkbox"/>	Equivalent Statement	<input checked="" type="checkbox"/>

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MBB ~~243~~ 110 Introductory data analysis focusing on molecular biology data sets and examples and including basic programming skills using Python and basic statistics skills using R. Prerequisite: ~~MBB 222 and MATH 152 or MATH 155. STAT 201 (or an equivalent statistics course) or STAT 270 is recommended.~~ Math 12 or equivalent is recommended. Students with credit for CMPT 120 or MBB 243 may not take this course for further credit.

**EFFECTIVE TERM AND YEAR FOR CHANGES**

Fall, Spring, Summer and year (please enter in textbox)

Spring 2023

**RATIONALE** (must be included)

MBB students are required to take a computing course based on Python, the major programming language used in bioinformatics. The CS department currently has one Python programming course in their program (CMPT120) which only recommends MATH 12 or equivalent as a pre-requisite. The content of MBB243 does not actually require all of the previous pre-requisites and by changing the pre-requisite of MBB243 to MATH 12 or equivalent as recommended, it will equalize the pre-requisites for both courses making them equally accessible for MBB students.

Changing the course number from MB243 to MBB110 also reflects the equivalency of the programming levels in CMPT 120 and MBB 110.

COURSE SUBJECT  NUMBER  TITLE

**TYPE OF CHANGES.** Please type 'X' for the appropriate revision(s):

Course number	<input type="checkbox"/>	Units	<input type="checkbox"/>	Prerequisite	<input type="checkbox"/>
Title	<input type="checkbox"/>	Description	<input checked="" type="checkbox"/>	Equivalent Statement	<input type="checkbox"/>

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Biochemical and molecular aspects of cellular function, interactions and communication including cell cycle, apoptosis, cancer, ~~immune system~~, neuronal transmission and the signal transduction pathways that integrate them. Prerequisite: MBB 231, with a minimum grade of C.

**EFFECTIVE TERM AND YEAR FOR CHANGES**

Fall, Spring, Summer and year (please enter in textbox)



**RATIONALE** (must be included)

The immune system is no longer covered in this course since the creation of a stand-alone introduction to immunology course (MBB326)