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MEMORANDUM

ATTENTION Senate
FROM Elizabeth Elle, Vice-Chair
Senate Committee on Undergraduate
Studies
RE: Course Changes (SCUS 22-02)

DATE January 7, 2022
PAGES 1/1

For information:

Acting under delegated authority at its meeting of January 6, 2022 SCUS approved the following curriculum revisions effective Fall 2022.

a. Faculty of Science**1. Department of Biological Sciences**

(i) Prerequisite change for BISC 205

2. Department of Biomedical Physiology and Kinesiology

(i) Prerequisite change for BPK 426

3. Department of Chemistry

(i) Prerequisite change for CHEM 380

(ii) Description and prerequisite change for CHEM 462

(iii) Temporarily withdrawal of CHEM 123, 124, 363, 367 and 382

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>.



COURSE SUBJECT BISC **NUMBER** 205 **TITLE** Principles of Physiology

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).

Prerequisite: BISC 101, BISC 102, PHYS 101, and PHYS 102 all with a grade of C- or better. Students who have taken BISC 305 or BISC 366 first may not then 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)

This is to ensure that students have completed both PHYS 101 and PHYS 102 before they can enroll in BISC 205. At SFU, PHYS 101 is a pre-requisite for PHYS 102. However, students transferring in from other institutions sometimes receive credit for PHYS 102 but not PHYS 101. This change closes a loophole for transfer students and ensures that all students have completed both courses prior to taking BISC 205.

COURSE SUBJECT	BPK	NUMBER	426	TITLE	Functional Human Neuroanatomy
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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).

Prerequisite: ~~BPK 306 and~~ BPK 326. Corequisite: BPK 306. BPK 306 is recommended to be completed prior to enrolling in BPK 426.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Fall 2022

RATIONALE (must be included)

BPK 426 - Functional Human Neuroanatomy runs once per year in the Fall semester, access to BPK 426 is an issue for multiple students each term, especially within the Behavioural Neuroscience Major for which BPK 426 is required. Changing BPK 306 Human Physiology II to a co-requisite (also offered in the Fall semester) will help with flexibility in meeting graduation requirements. While BPK 326 Functional Human Anatomy contains the necessary pre-requisite material, it is still recommended that students take BPK 306 as a prerequisite if possible.

COURSE SUBJECT	CHEM	NUMBER	380	TITLE	Chemical and Instrumental Methods of Identification of Organic Compounds
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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).

Prerequisite: [CHEM 282 or 283 or 284]; and CHEM 286, both with a minimum grade of C-, or permission of the Department.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Fall 2022

RATIONALE (must be included)

This prerequisite change will make it easier for non-Chemistry Majors (especially MBB students) to access this valuable 3rd year organic chemistry course, by allowing CHEM 282, which is commonly taken by students in other Science programs as a prerequisite rather than the more extensive CHEM 283. The instructors agree that CHEM 282 is sufficient in order to proceed to CHEM 380 (but not necessarily for further organic chemistry courses, for which the prerequisites may have to be altered, after consultation with the appropriate faculty members).

COURSE SUBJECT	CHEM	NUMBER	462	TITLE	Molecular Spectroscopy
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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).

Topics may include: Atomic spectra, vibrational and rotational spectra of diatomic and polyatomic molecules, the Raman effect, nuclear and electron spin resonance, symmetry classification of molecules and their energy levels, UV-Vis-NIR absorption and photoluminescence spectroscopy. ~~Atomic spectra. Electronic, vibrational and rotational spectra of diatomic and polyatomic molecules. The Raman effect. Nuclear and electron spin resonance. Symmetry classification of molecules and their energy levels.~~
Prerequisite: CHEM ~~260~~ 364 or PHYS ~~285~~ 385, with a minimum grade of C-. Quantitative.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Fall 2022

RATIONALE (must be included)

The course description has been updated to include several topics that alternate in their coverage in the course depending on course instructor (most topics are always covered, but there are a few optional choices; the specific course outlines will be published for each offering).

The prerequisite change from 2nd year to the more advanced 3rd year quantum chemistry/physics courses is necessary because the course is taught at an advanced (4th year) level but which, to date, has had students with a range of backgrounds in it due to the 2nd year prerequisites; some only had the 2nd year prerequisites while others also had CHEM 364. This prerequisite change will level the backgrounds of all of the students in the course, and allow the instructor to be able to teach the course to all students at an appropriate advanced level.

Currently Active

CHEM 123	Enriched Chemistry I and Laboratory	Never
	Move to Temporarily Withdrawn; we unfortunately do not have the resources to offer this course at this time.	
CHEM 124	Enriched Chemistry II	Never
	Move to Temporarily Withdrawn; we unfortunately do not have the resources to offer this course at this time.	
CHEM 363	Chemical Kinetics and Reaction Dynamics	Spring 2018
	Move to Temporarily Withdrawn; we do not have the resources to offer this course at this time.	
CHEM 367	Advanced Physical Chemistry Laboratory	Fall 2013
	Move to Temporarily Withdrawn; it will likely be deleted in the next round.	
**CHEM 382	Introduction to Chemical Biology	Never
	While not on the Senate list, please move to Temporarily Withdrawn. We are not currently able to develop/offer this course and do not wish it to be listed in the Calendar at this time so as not to confuse students.	