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MEMORANDUM

ATTENTION	Senate	DATE	August 4, 2017
FROM	Gordon Myers, Chair Senate Committee on Undergraduate Studies	PAGES	1/1
RE:	Course Changes (SCUS 17-33)		

For information:

Acting under delegated authority at its meeting of August 3, 2017 SCUS approved the following curriculum revisions effective Summer 2018.

a. Beedie School of Business

- (i) Prerequisite change for BUS 417, 432, and 479
- (ii) Prerequisite change and equivalent statement for BUS 430

b. Faculty of Science1. Department of Biological Sciences

- (i) Prerequisite change for BISC 101
- (ii) Deletion of BISC 404W and 419

2. Department of Biomedical Physiology and Kinesiology

- (i) Description change for BPK 141, 143, 343, 454 and 482

3. Department of Earth Sciences

- (i) Description change for EASC 108

4. Department of Statistics and Actuarial Sciences

- (i) Prerequisite change for STAT 452

COURSE CHANGES (SCUS 17-33)

a. Beedie School of Business

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- (ii) Prerequisite change and equivalent statement for BUS 430

b. Faculty of Science

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3. Department of Earth Sciences

- (i) Description change for EASC 108

4. Department of Statistics and Actuarial Sciences

- (i) Prerequisite change for STAT 452

COURSE SUBJECT NUMBER TITLE

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).

This course covers the historical, theoretical and practical issues involved in the market valuation of securities. Three general areas are studied: valuation of fixed income securities; valuation of equity securities; and topics in portfolio management. Prerequisite: BUS 315, ~~316~~, 360W; 60 units. BUS 221 recommended. Students who have taken BUS 492 under the topic Security Analysis may not take BUS 417 for further credit.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

RATIONALE (must be included)

BUS 417 has been added to the list of courses that a Finance concentrator may take to meet the Beedie School of Business' international business course requirement. The change in prerequisite is expected to make this course more attractive to others beyond just Finance concentrators.

COURSE SUBJECT	BUS	NUMBER	432	TITLE	International Human Resource Management
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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"/>

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).

BUS 432 - International Human Resource Management (3)

Significance of multinational complexity and diversity (cultural, economic, demographic, etc.) to the human resource function. Interplay among human resource functions (employee procurement, allocation, utilization), types of employees, and countries of operation. Prerequisite: BUS 360W and one of BUS 272 or 381 ~~or 374~~; 60 units. Recommended: BUS 346.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Summer 2018

RATIONALE (must be included)

The international business concentration and course prerequisites have been reviewed in order to provide better course access to students. BUS 272 will provide a sufficient basis for students who do not have BUS 381, and BUS 374 is not necessary as a prerequisite.



COURSE SUBJECT	BUS	NUMBER	479	TITLE	Practicum for Strategy Analysis
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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"/>

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: BUS 360W; 90 credits; one of BUS 371, BUS 470 or BUS 471. Co-requisite: BUS 478.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Summer 2018

RATIONALE (must be included)

BUS 360W is a prerequisite for all 400-level Business courses. Although this is already implicit in that students must have BUS 360W in order to take BUS 478 (which is a corequisite for this course), we would like to make this language explicit in the calendar in order to provide maximum clarity for students.

COURSE SUBJECT NUMBER TITLE

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).

Examines the major similarities and differences in management systems and practices in a variety of countries, including western Europe, East Asia, Middle East, and Latin America. Topics include the following: comparative management frameworks, managing cultural differences, cross-cultural business negotiations, and international human resource management. Prerequisite: ~~BUS 272, 360W~~; 60 units. Recommended: BUS 346. ~~Students with credit for BUS 380 may not complete BUS 430 for further credit.~~

EFFECTIVE TERM AND YEAR FOR CHANGES

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

RATIONALE (must be included)

The international business concentration and course prerequisites have been reviewed in order to provide better course access to students. This course no longer requires BUS 272 as a prerequisite.

BUS 380 was also deleted as of Fall 2017 as it has not been offered in a number of years, and no longer needs to be listed.

COURSE SUBJECT NUMBER TITLE

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: High school biology 12 (or equivalent) with a C grade or better, or BISC 100 with C- or better, or BISC 113 with C+ or better, or HSCI 100 with C+ or better; and High school chemistry 12 (or equivalent) with a C grade or better, or CHEM 111 with a C- or better.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

RATIONALE (must be included)

BISC 101 students are expected to have a background in basic chemistry (e.g., chemical bonds, functional groups, polarity etc) as these provide a foundation for core topics (e.g., membrane transport, ion movement and interaction, metabolism etc.) in the course. Currently the majority of students have grade 12 chemistry, but a small minority of students (especially non-Science) have no chemistry and are not adequately prepared to succeed in the course. All programs that require BISC 101 (BPK, MBB, FHS, FENV, BioPHYS) also require CHEM courses. Adding this pre-requisite will not add any required courses for these programs, but will ensure that Science students complete CHEM 111 before BISC 101 instead of in the reverse order.

COURSE SUBJECT NUMBER TITLE

RATIONALE (must be included)

Both BISC 404W (Plant Ecology) and BISC 304W (Animal Ecology) have been replaced by a pair of new courses. This is part of a shift away from organismal courses, to conceptual (BISC 420 Community Ecology) and techniques (BISC 360 Techniques in Ecology and Evolution) courses. These changes have already been made to our EEC stream.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

PLEASE DO THE FOLLOWING:

1. Attach a program impact list along with your course deletion form. Contact the Senate and Academic Services Office (sfucal@sfu.ca) for a program impact list.
2. Once you have the program impact list, please review how deleting this course affects each program's requirements.
3. If more substantial changes are required to programs as a result of this deletion, please also submit a program modification form.
4. If no further changes other than deletion is required in program requirements, please list those programs in the box below:

Program Impact List:

1. Environmental Education Minor
2. Environmental Science Honours
3. Environmental Science Major

FENV has agreed to remove BISC 404W from these programs at their earliest convenience.

Course Impact Analysis

BISC 404W is not a pre-req or co-req for any BISC courses.

5. Lastly, please conduct a course impact analysis, which reviews the effect of a course number change and/or course deletion on course prerequisites. For instructions on how to do a course impact analysis, please visit [our page](#) and click on "deleting a course" and review Step 2. Course Impact Analysis.

COURSE SUBJECT NUMBER TITLE

RATIONALE (must be included)

This course has not been offered since 2012 and is no longer part of any BISC program or stream.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

PLEASE DO THE FOLLOWING:

1. Attach a program impact list along with your course deletion form. Contact the Senate and Academic Services Office (sfucal@sfu.ca) for a program impact list.
2. Once you have the program impact list, please review how deleting this course affects each program's requirements.
3. If more substantial changes are required to programs as a result of this deletion, please also submit a program modification form.
4. If no further changes other than deletion is required in program requirements, please list those programs in the box below:

Program Impact List:

1. Ethics Certificate
2. Resource and Environmental Management Minor

The Department of Philosophy and the Faculty of the Environment have agreed to delete these courses from their respective programs at their next curricular meetings.

Course Impact Analysis:

BISC 419 is not a pre-req or co-req for existing BISC courses.

5. Lastly, please conduct a course impact analysis, which reviews the effect of a course number change and/or course deletion on course prerequisites. For instructions on how to do a course impact analysis, please visit [our page](#) and click on "deleting a course" and review Step 2. Course Impact Analysis.

COURSE SUBJECT	BPK	NUMBER	141	TITLE	Theory of Exercise Program 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 checked="" type="checkbox"/>	Equivalent Statement	<input 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).

An introduction to the anatomical, physiological and biomechanical knowledge required to develop effective training regimes and implementation of this knowledge in exercise program design. **Behavioural Neuroscience, Biomedical Physiology, and Kinesiology honours, majors and minor students may not receive credit for BPK 141.** Students with credit for KIN 143 or **BPK 143** may not take this course for further credit. Breadth-Science.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Summer 2018

RATIONALE (must be included)

Although the originally approved proposal for BPK 141 addressed these restrictions and equivalencies it was not formalized in the course description wording. Thus, SIMS cannot be appropriately coded until this wording has been approved by SCUS.

COURSE SUBJECT NUMBER TITLE

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).

Introduces the student to exercise physiology. Focuses on personal exercise prescription to improve aerobic capacity, muscular strength and endurance, and flexibility. Also discusses athletic conditioning, e.g. speed and power training. The effects of nutritional and environmental factors on exercise and the role of exercise in weight control and stress management are considered. Prerequisite: Recommended: medical clearance from a personal physician. Students with credit for **BPK 141** or KIN 143 may not take this course for further credit. Breadth-Science.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

RATIONALE (must be included)

Although the originally approved proposal for BPK 141 addressed these restrictions and equivalencies it was not formalized in the course description wording. Thus, SIMS cannot be appropriately coded until this wording has been approved by SCUS.

COURSE SUBJECT	BPK	NUMBER	343	TITLE	Active Health: Assessment and Programming
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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 checked="" type="checkbox"/>	Equivalent Statement	<input 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).

An extension of BPK (or KIN) 143, Exercise: Health and Performance, designed to provide students with an opportunity to appreciate principles of exercise leadership, assess individual fitness needs, design programs and monitor effects of prescribed exercise. The course includes a 34 hour unpaid practicum. Prerequisite: BPK (or KIN) 142, 143 and 205; STAT 201 or an equivalent statistics course, BPK (or KIN) 340 (may be taken concurrently). Students must successfully complete a Criminal Record Check prior to enrolling. Students with credit for BPK (or KIN) 342 or KIN 343 may not take this course for further credit. Quantitative.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Summer 2018

RATIONALE (must be included)

The word **unpaid** needs to be included in the description of the practicum because of insurance implications.

COURSE SUBJECT	BPK	NUMBER	454	TITLE	Advanced Cardiac Rehabilitation
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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 checked="" type="checkbox"/>	Equivalent Statement	<input 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).

Builds upon the knowledge and skills learned in BPK (or KIN) 444 through advanced ECG interpretation, exercise stress testing, and patient counseling. Students will be required to complete a 30 hour unpaid practicum within a community or hospital-based cardiac rehabilitation program. In addition, this course will introduce students to relevant research questions in cardiac rehabilitation and how this field is expanding and evolving. Prerequisite: BPK (or KIN) 444. Students must successfully complete a Criminal Record Check. Students with credit for KIN 445 may not take this course for further credit.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Summer 2018

RATIONALE (must be included)

The word **unpaid** needs to be included in the description of the practicum because of insurance implications.

COURSE SUBJECT NUMBER TITLE

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).

Examines the role of ergonomics within the rehabilitation process. Provides knowledge about tools and techniques for improving the rehabilitation process for patients, health care providers and organizations. The course includes a 34 hour unpaid practicum. Prerequisite: BPK (or KIN) 180W, 201, 326, and 381. Corequisite: BPK (or KIN) 481. Students must successfully complete a Criminal Record Check before enrolling.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

RATIONALE (must be included)

The duration and unpaid nature of the practicum needs to be included in the description because of insurance implications.

COURSE SUBJECT NUMBER TITLE

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).

An introduction to the geology of our solar system through a comparative survey of the planets. Emphasis will be on the geology of the Earth and how we can use this knowledge to learn more about the neighboring planets. A wealth of accessible information now exists from which we can attempt to reconstruct the geological history of each planetary surface in our solar system. Comparative planetology will be used to explore such topics as the structure and origin of the solar system, the origin and fate of the Earth, the importance of water in the solar system, the formation and geological history of planetary lithospheres and atmospheres.
Students may not use EASC 108 for credit towards Earth Sciences major or minor program requirements. Breadth-Science.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

RATIONALE (must be included)

This course is aimed at non-majors. This addition makes the course description consistent with the other 100-level Breath EASC courses (i.e., 103, 104, 106, 107).



COURSE SUBJECT	STAT	NUMBER	452	TITLE	Statistical Learning and Prediction
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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"/>

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).

An introduction to the essential modern supervised and unsupervised statistical learning methods. Topics include review of linear regression, classification, statistical error measurement, flexible regression and classification methods, clustering, and dimension reduction. Prerequisite: STAT 302 or STAT 305 or STAT 350 or BUEC 333 or equivalent. Quantitative.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

1184

RATIONALE (must be included)

BUEC 333 provides sufficient preparation for STAT 452 and is commonly taken by STAT minor students as an alternative to STAT 302 or STAT 305.