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MEMORANDUM

ATTENTION Senate
FROM Wade Parkhouse, Chair
Senate Committee on
Undergraduate Studies
RE: Course Modifications (SCUS 19-38)

DATE June 7, 2019
PAGES 1/2

For information:

Acting under delegated authority at its meeting of June 6, 2019 SCUS approved the following curriculum revisions effective Spring 2020.

a. Faculty of Applied Sciences1. Mechatronic Systems Engineering (MSE)

- (i) Equivalent statement change for MSE 429

b. Beedie School of Business

- (i) Prerequisite change for BUS 428, 431, 435 and 479
- (ii) Prerequisite and course number change for BUS 470

c. Faculty of Environment1. Department of Archaeology

- (i) Units change for ARCH 201, 286, 372, 376 and 435

d. Faculty of Health Sciences

- (i) Deletion of HSCI 426
- (ii) Prerequisite change for HSCI 427, 442, 477 and 482

e. Faculty of Science

1. Department of Biological Sciences

(i) Unit change for BISC 373

2. Department of Molecular Biology and Biochemistry

(i) Deletion of MBB 426

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

MSE

NUMBER

429

TITLE

Advanced Kinematics for
Robotic Systems**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).

~~Students may not take both ENSC 488 and MSE 429 for credit.~~

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Spring 2020

RATIONALE (must be included)

The equivalency statement initially included in the course description for MSE 429 has since been deemed unnecessary, due to limited real overlap with ENSC 488.

COURSE SUBJECT	BUS	NUMBER	428	TITLE	Forensic Accounting & Data Analytics
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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).

BUS 428 - Forensic Accounting and Data Analytics (3)

This course combines forensic accounting with data analytics. Students explore common fraud schemes, and learn how to identify and investigate them. Students then apply data analytic methods to explore fraud in an accounting case, and communicate their findings to practicing forensic accountants who provide real-world guidance and feedback. Prerequisite: BUS 321, BUS 360W, 60 units.
~~Corequisite: BUS 426.~~

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Spring 2020



RATIONALE (must be included)

The materials covered in BUS 426 are not necessary for the successful completion of BUS 428.

COURSE SUBJECT	BUS	NUMBER	431	TITLE	Business With East Asian Countries
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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).

BUS 431 - Business with East Asian Countries (3)

This course examines the opportunities and challenges of doing business with the Pacific Rim countries such as China, Japan and Korea. Topics include the following: the political and economic systems as they affect foreign investment; social and cultural systems as they affect management practices; the conduct of business negotiations for market entry; and marketing strategies. Prerequisite: BUS 360W and ~~one of BUS 430 or 432~~; 60 units. Recommended: BUS 346.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Spring 2020

RATIONALE (must be included)

As of Fall 2018, all Beedie students must complete an IB (International Business) area course prior to graduation. Due to this new requirement the IB Area has been reviewing their course prerequisites to determine whether they were necessary in order to ensure courses were as accessible as possible to help students move through the BBA without barriers. The IB Area also reviewed the prerequisites in light of the IB concentration and how students move through the required courses for the concentration so they can graduate in a timely manner. Faculty in this area observed how students have been performing in class with or without the prerequisites (as many students have been granted prerequisite waivers for these courses) and determined that the performance did not differ based on whether they had taken these courses or not. These changes will allow BBA students to complete their IB course and/or IB concentration in a timely manner for graduation and also so students can participate in opportunities such as Co-op and exchange, which can be impacted by course progression and students' timelines to graduation.



COURSE SUBJECT

BUS

NUMBER

435

TITLE

Management of International
Firms

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).

BUS 435 - Management of International Firms (3)

Strategic requirements for the management of multinational corporations. Firm-specific and institutional challenges facing global managers in formulating and implementing profitable strategies. Prerequisite: BUS 360W and ~~one of BUS 430 or 432~~; 60 units. Recommended: BUS 346.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Spring 2020

RATIONALE (must be included)

As of Fall 2018, all Beedie students must complete an IB (International Business) area course prior to graduation. Due to this new requirement the IB Area has been reviewing their course prerequisites to determine whether they were necessary in order to ensure courses were as accessible as possible to help students move through the BBA without barriers. The IB Area also reviewed the prerequisites in light of the IB concentration and how students move through the required courses for the concentration so they can graduate in a timely manner. Faculty in this area observed how students have been performing in class with or without the prerequisites (as many students have been granted prerequisite waivers for these courses) and determined that the performance did not differ based on whether they had taken these courses or not. These changes will allow BBA students to complete their IB course and/or IB concentration in a timely manner for graduation and also so students can participate in opportunities such as Co-op and exchange, which can be impacted by course progression and students' timelines to graduation.

COURSE SUBJECT	BUS	NUMBER	479	TITLE	Strategy Analysis Practicum
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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).

BUS 479 - Strategy Analysis Practicum (3)

A project study that enables students to work on contemporary business problems, requiring them to apply their foundation knowledge in business and advanced analytical skills. Feasible projects will be identified by the course instructor, in collaboration with the career management office at Beedie. Prerequisite: BUS 360W; 90 units; ~~one of BUS 371, BUS 470 or BUS 471~~. Corequisite: BUS 478.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Spring 2020



RATIONALE (must be included)

The Strategic Analysis concentration has been reviewed and course numbering and prerequisites are changing to guide students through the concentration more appropriately.

The updated prerequisites will allow students to take this course concurrently with others in the concentration as long as they have 90 units and BUS 478 concurrently.

COURSE SUBJECT	BUS	NUMBER	470	TITLE	Business Applications of Game Theory
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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).

BUS ~~470~~ **307** - Business Applications of Game Theory (3)

Game theory is the systematic study of the strategic interactions between economic entities. This course introduces students to the basic concepts of game theory in strategic decision making in a business setting. Games with increasing complexity will be analyzed, with the emphasis on developing a student's ability to think analytically and recognize strategic interactions in strategic management scenarios. Prerequisite: ~~60~~ 45 units; BUS 207 or ECON 201, ~~BUS 360W~~.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Spring 2020

RATIONALE (must be included)

The Strategic Analysis concentration has been reviewed and course numbering and prerequisites are changing to guide students through the concentration more appropriately.

BUS 470 will change to BUS 307 to indicate that students can take it earlier in the concentration.

COURSE SUBJECT ARCH NUMBER 201 TITLE Reconstructing the Human Past

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).

Reduction from 4 units to 3 units.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Spring 2020

RATIONALE (must be included)

We have added a number of 4 credit courses to the lower division requirements, but have not reduced credit requirements elsewhere. Furthermore, making this course 3 credits puts it back in line with our other lower-level courses.

COURSE SUBJECT ARCH NUMBER 286 TITLE Cultural Heritage Management

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).

Reduction from 4 units to 3 units.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Spring 2020

RATIONALE (must be included)

We have added a number of 4 credit courses to the lower division requirements, but have not reduced credit requirements elsewhere. Furthermore, making this course 3 credits puts it back in line with our other lower-level courses.

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).

Reduction from 5 units to 4 units.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

RATIONALE (must be included)

We are increasing the number of required courses in our core program (i.e., the addition of ARCH 376Q). Therefore it is necessary to reduce the number of 5 unit courses students will be required to take.

COURSE SUBJECT	ARCH	NUMBER	376Q	TITLE	Quantitative Methods in Archaeology
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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).

Reduction from 5 units to 4 units.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Spring 2020

RATIONALE (must be included)

We are increasing the number of required courses in our core program (i.e., the addition of ARCH 376Q). Therefore it is necessary to reduce the number of 5 unit courses students will be required to take.

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).

From 6 units to variable credit, anywhere from 3-6 units.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

RATIONALE (must be included)

The Archaeology UCC recognizes that the CRM certificate requirements are too heavy in comparison to certificates in other units.

By allowing flexibility on unit counts for this course it will enable students to do shorter stints of field work practicums both within and outside of departmental field schools, and apply those credits towards our CRM certificate.

COURSE SUBJECT NUMBER TITLE

RATIONALE (must be included)

HSCI 426-4 (Immune System I: Basis of Innate and Adaptive Immunity) has been replaced by a 300-level course, HSCI 326-3 (Introduction to the Immune System).

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:

1. Program impact list is attached.
2. Programs have been reviewed.
3. Program Modification form is attached. Changes are coordinated with Molecular Biology and Biochemistry. HSCI 426 is cross-listed with MBB 426.
4. NA
5. Course Modification forms for HSCI 427, HSCI 442, HSCI 477 and HSCI 482, which list HSCI 426 as a prerequisite, are also submitted.

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

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).

~~MBB 426 or HSCI 426~~ **MBB 326 or HSCI 326**, with a minimum grade of C, or permission of the instructor. Students with credit for MBB 427 may not take this course for credit.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

RATIONALE (must be included)

Replacement of previous MBB/HSCI 426 prerequisite course with new 300-level Introductory Immunology Course (HSCI/MBB 326)

COURSE SUBJECT	HSCI	NUMBER	442	TITLE	IMMUNOLOGY LABORATORY (4)
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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).

HSCI or MBB ~~326~~ 426, and one of MBB 308, BISC 303, BISC 357, or MBB 309W.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Spring 2020

RATIONALE (must be included)

Replacement of previous MBB/HSCI 426 prerequisite course with new 300-level Introductory Immunology Course (HSCI/MBB 326)

COURSE SUBJECT	HSCI	NUMBER	477	TITLE	Seminar in Vaccine Immunology
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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).

BISC 303 and ~~HSCI 426 or MBB 426~~ **HSCI 326 or MBB 326**, or permission of the instructor. Recommended: HSCI 427 or MBB 427.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Spring 2020

RATIONALE (must be included)

Replacement of previous MBB/HSCI 426 prerequisite course with new 300-level
Introductory Immunology Course (HSCI/MBB 326)

COURSE SUBJECT

HSCI

NUMBER

482

TITLE

Senior Seminar in Infectious
Diseases**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).

HSCI 338 - Animal Virology, ~~MBB/HSCI 426 - Immune System I: Basis of Innate and Adaptive Immunity~~ **MBB/HSCI 326 - Introduction to the Immune System.**

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Spring 2020



RATIONALE (must be included)

Replacement of previous MBB/HSCI 426 prerequisite course with new 300-level
Introductory Immunology Course (HSCI/MBB 326)

COURSE SUBJECT **BISC** NUMBER **373** TITLE **Brewing Science**

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).

Increase the number of units from 2 to 3. Change the number of lectures from 2 per week to 3 per week.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Spring 2020 (1201)

RATIONALE (must be included)

BISC 373 was initially introduced to allow students to take the lecture component of BISC 374, without taking its lab component; BISC 374 includes 2 hours of lecture per week as well as a lab component. Due to space and personnel constraints, it is currently not feasible to offer the course with a lab component. Instead, BISC 373 will be modified to capture the essence of the laboratory component by incorporating demonstrations, hands-on exercises, and study group discussions into a third hour of lecture per week. We do not propose to modify BISC 374 at this time, in case it becomes feasible to offer the lab again at some point in the future.

COURSE SUBJECT MBB

NUMBER 426

TITLE Immune System I

RATIONALE (must be included)

MBB 426-4 (Immune System I: Basis of Innate and Adaptive Immunity) has been cancelled and replaced with a 300-level course, MBB 326-3 (Introduction to the Immune System).

EFFECTIVE TERM AND YEAR FOR CHANGES

Fall, Spring, Summer and year (enter in textbox) Spring 2020

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:

1. Program impact list is attached.

2. Programs have been reviewed.

3. Program Modification form is attached. Changes are coordinated with Faculty of Health Sciences because MBB 426 is cross-listed with HSCI 426.

4. NA

5. A Course Modification form for MBB 427, which lists MBB 426 as a prerequisite, was submitted to FoS UCC previously. MBB 326 was added as an alternative pre-req to MBB 426. This change was approved by Senate (S.19.27).

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.