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MEMORANDUM

ATTENTION Senate
FROM Daniel Leznoff, Chair
Senate Committee on
Undergraduate Studies
RE: Program Changes

DATE February 2, 2018
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For information:

Acting under delegated authority at its meeting of February 1, 2018 SCUS approved the following curriculum revisions effective Fall 2018.

a. Faculty of Applied Sciences (SCUS 18-08)**1. School of Computing Science**

- (i) Requirement changes to the Computing Science Dual Degree Program

b. Beedie School of Business (SCUS 18-09)

- (i) Requirement changes to the Certificate in Innovation and Entrepreneurship
- (ii) Requirement changes to the Bachelor of Business Administration affecting the following programs:
 - Major – Business Bachelor of Business Administration
 - Major – Mechatronic Systems Engineering and Business Double Degree Program Bachelor of Applied Science and Bachelor of Business Administration
 - Honours – Business Bachelor of Business Administration
 - Joint Major – Business and Economics Bachelor of Arts or Bachelor of Business Administration
 - Joint Major – Interactive Arts and Technology and Business Bachelor of Arts or Bachelor of Business Administration
 - Joint Major – Interactive Arts and Technology and Business Bachelor of Science
 - Joint Honours – Business and Economics Bachelor of Arts or Bachelor of Business Administration

d. Faculty of Science (SCUS 18-11)

1. Department of Molecular Biology and Biochemistry

- (i) Lower division requirement changes to the MBB Majors and Honours program
- (ii) Upper division requirement changes to the MBB - Business Administration Joint Major



SCUS 18-08

Calendar Entry Change Course Addition

Name of Program or Name of Faculty Computing Science Dual Degree Program

Rationale for change:

CHIN 390 is a new course which provides necessary Chinese language reading skills for students to read Chinese academic writing.

Effective term and year:

Fall 2018

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

Computing Science Dual Degree Program

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**.

Mandarin Courses

Students with no previous knowledge of Chinese languages complete the following courses.

[CHIN 180 - Intensive Mandarin Chinese for Beginners I \(3\)](#)

[CHIN 181 - Intensive Mandarin Chinese for Beginners II \(3\)](#)

[CHIN 280 - Intensive Mandarin Chinese for Beginners III \(3\)](#)

[CHIN 281 - Intensive Mandarin Chinese for Beginners IV \(3\)](#)

Students with some previous knowledge of Chinese languages are assessed for placement by the DDP Chinese Language Instructor. Students may be required to take one or more of the following courses.

[CHIN 190 - Heritage Mandarin Chinese I \(3\)](#)

[CHIN 191 - Heritage Mandarin Chinese II \(3\)](#)

[CHIN 290 - Heritage Mandarin Chinese III \(3\)](#)

[CHIN 291 - Heritage Mandarin Chinese IV \(3\)](#)

CHIN 390 – Advanced Chinese Reading (3)

Calendar Entry Change Certificate in Innovation and Entrepreneurship

Rationale for change:

The changes recognize the development of the "Business of Design" sub-program within the Certificate. The changes further respond to requests by the Advisory Board that the non-business courses than can be taken be expanded to encourage a University-wide audience for the Certificate.

Effective term and year:

Fall 2018

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

Certificate in Innovation and Entrepreneurship

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**.

Admission Requirements

A student in any faculty at SFU may declare this certificate through the Beedie School of Business.

Limitations

Students may complete only one of the Certificate in Business Analytics and Decision Making, the Certificate in Business Technology Management, or the Certificate in Innovation and Entrepreneurship.

Additionally, units applied to one certificate may not be applied to another Simon Fraser University certificate or diploma, as noted here.

Grade Requirements

In addition to normal university grade point average requirements, the Beedie School of Business requires a minimum 2.30 overall SFU Business course grade point average for entry into all 300 and 400 division business courses.

For a course to be accepted as fulfilling a prerequisite, or for a lower division requirement, or for a core course to be accepted in a student's program in business, a student must have obtained a minimum grade of C- (C minus).

Program Requirements

Students must complete the following, including foundational business courses, a capstone course, and additional coursework from a variety of disciplines.

Students will complete all of:

BUS 238 - Introduction to Entrepreneurship and Innovation (3)
 BUS 314 - Resourcing New Ventures (3)
 BUS 338 - Foundations of Innovation (3)
 BUS 361 - Project Management (3)

And one of*:

IAT 430 - Refinement and Production (3) and BUS 476 - Communication, distribution and Launch (4) (BoD)

BUS 477 - Startup Experience (4)

ENV 495 - Environmental Capstone (4) **

FPA 489 - Creative and Cultural Entrepreneurship (4)

MSE 410 - Capstone Design Technical Project I (3) **and** MSE 411W - Capstone Design Technical Project II (3) **(TechE)**

HSCI 495 - Applied Health Science Project (4)

IAT 499 - Graduation Project (6)

Students# will complete two of*:

BISC 373 - Brewing Science (2) or BISC 374 - Brewing Science with Lab (3)

BUS 339 - Iteration and prototyping (4)

BUS 406 - Startup Accelerator (3)

BUS 443 - New Product Development and Design (3)

BUS 450 - Managing Emerging Opportunities (3)

BUS 453 - Sustainable Innovation (3)

BUS 490 - Selected Topics in Business Administration (3) ***

BUS 491 - Selected Topics in Business Administration (3) ***

BUS 492 - Selected Topics in Business Administration (3) ***

BUS 493 - Selected Topics in Business Administration (3) ***

BUS 494 - Selected Topics in Business Administration (3) ***

BUS 495 - Selected Topics in Business Administration (3) **

BUS 496 - Selected Topics in Business Administration (5) ***

CMNS 425 - Applied Communications for Social Issues (4)

CMPT 120 - Introduction to Computing Science and Programming I (3)

CMPT 320 - Social Implications - Computerized Society (3)
FPA 381 – Thriving as an Entrepreneur (4)
HSCI 130 - Foundations of Health Science (4)
HSCI 305 - The Canadian Health System (3)
HSCI 312 - Health Promotion: Individuals and Communities (3)
IAT 330 – Introduction to Business of Design (3)
IAT 333 - Interaction Design Methods (3)
IAT 431 - Speculative Design (3)
MSE 110 - Mechatronics Design I (3) or MSE 111 - Mechatronics for non-Engineers (3)
PUB 101 – The Publication of Self in Everyday Life (3)
PUB 201 – The Publication of the Professional Self (3)
PUB 212 – Public Relations and Public Engagement (3)
PUB 456 – Institutional and International Event Planning and Management (4)
POL 150 - Science, Policy, and Innovation (3)
POL 457W - Technology and Innovation Policy (4)

Students completing a Bachelor of Business Administration may not use BUS 443, BUS 450, BUS 453, or BUS 49X to meet the requirements of this section.

* Substitutions with appropriate course content may be possible with permission from the Beedie School of Business.

** ENV 495 will only count toward this certificate when offered as part of Change Lab. Students are to consult with a Faculty of Environment advisor before enrolling in this course.

*** When offered as a selected topics course in Innovation and Entrepreneurship.

Calendar Entry Change
Bachelor of Business Administration

Rationale for change:

The Advisory Board recommended adding additional courses to the optional courses required.

Effective term and year:

Fall 2018

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

Business Programs

Major – Business Bachelor of Business Administration

Major – Mechatronic Systems Engineering and Business Double Degree Program Bachelor of Applied Science and Bachelor of Business Administration

Honours – Business Bachelor of Business Administration

Joint Major – Business and Economics Bachelor of Arts or Bachelor of Business Administration

Joint Major – Interactive Arts and Technology and Business Bachelor of Arts or Bachelor of Business Administration

Joint Major – Interactive Arts and Technology and Business Bachelor of Science

Joint Honours – Business and Economics Bachelor of Arts or Bachelor of Business Administration

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**.

Innovation and Entrepreneurship

For this concentration, students complete all of

BUS 314 - Resourcing New Ventures (3)

BUS 338 - Foundations of Innovation (3)

BUS 361 - Project Management (3)

BUS 477 - Startup Experience (4)

and one of

BUS 339 - Iteration and prototyping (4)

BUS 406 - Startup Accelerator (3)

BUS 443 - New Product Development and Design (3)

BUS 450 - Managing Emerging Opportunities (3)

BUS 453 - Sustainable Innovation (3)

BUS 490 - Selected Topics in Business Administration (3) **
BUS 491 - Selected Topics in Business Administration (3) **
BUS 492 - Selected Topics in Business Administration (3) **
BUS 493 - Selected Topics in Business Administration (3) **
BUS 494 - Selected Topics in Business Administration (3) **
BUS 495 - Selected Topics in Business Administration (3) **
BUS 496 - Selected Topics in Business Administration (5) **

** When offered as a selected topics course in Innovation and Entrepreneurship.



Calendar Entry Change: addition of MBB 243 option to MBB course requirements
Name of Program or Name of Faculty: MBB

Rationale for change: MBB 243: Data Analysis for Molecular Biology and Biochemistry (3) is a new course approved by Senate that provides an additional option for MBB students to fulfill their programming course requirement.

Effective term and year: Fall 2018

The following program(s) will be affected by these changes: MBB Majors, MBB Honors

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**.

Lower Division Requirements

Students complete all of

BISC 101 - General Biology (4)

BISC 102 - General Biology (4)

BISC 202 - Genetics (3)

CHEM 121 - General Chemistry and Laboratory I (4)

CHEM 122 - General Chemistry II (2)

CHEM 126 - General Chemistry Laboratory II (2)

CHEM 281 - Organic Chemistry I (4)

CHEM 286 - Organic Chemistry Laboratory II (2)

MBB 222 - Molecular Biology and Biochemistry (3)

MBB 231 - Cellular Biology and Biochemistry (3)

and both of

CHEM 215 - Introduction to Analytical Chemistry (4)

CHEM 282 - Organic Chemistry II (2)

Or both of

CHEM 283 - Organic Chemistry IIb (3)

CHEM 380 - Chemical and Instrumental Methods of Identification of Organic Compounds (4)

and one of

CMPT 102 - Introduction to Scientific Computer Programming (3)

CMPT 110 - Programming in Visual Basic (3)

CMPT 120 - Introduction to Computing Science and Programming I (3)

CMPT 126 - Introduction to Computing Science and Programming (3)

CMPT 130 - Introduction to Computer Programming I (3)

MBB 243 - Data Analysis for Molecular Biology and Biochemistry (3)



Calendar Entry Change: remove MBB 400-1 from list of required course

Name of Program or Name of Faculty: MBB - Business Admin Joint Major

Rationale for change: MBB 400: Special Topics in Biotechnology and Business (1) has not been offered in a number of years and neither MBB nor Business plan to offer it in the future. Business has no objections to removing this course from the MBB - Business Administration Joint Major.

Effective term and year: Fall 2018

The following program(s) will be affected by these changes: MBB - Business Administration Joint Major

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**.

Upper Division Molecular Biology and Biochemistry Requirements

Students complete a total of 29 units, including all of

~~MBB 400 - Special Topics in Biotechnology and Business (1)~~

MBB 308 - Molecular Biology Laboratory (3)

MBB 309W - Biochemistry Laboratory (4)

MBB 321 - Intermediary Metabolism (3)

MBB 322 - Molecular Physiology (3)

MBB 331 - Molecular Biology (3)

MBB 496 - Independent Study Semester Joint Honours MBB-BUS or CMPT-MBB (6)