SFU OFFICE OF THE ASSOCIATE VICE-PRESIDENT, ACADEMIC

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MEMORANDUM

ATTENTION	Senate	**DATE**	June 2, 2017
FROM	Gordon Myers, Chair	**PAGES**	1/1
	Senate Committee on		
	Undergraduate Studies		
RE:	Program Changes (SCUS 17-27)		

For information:

Acting under delegated authority at its meeting of June 1, 2017 SCUS approved the following curriculum revisions effective Spring 2018.

a. Beedie School of Business (SCUS 17-27a)

(i) Requirement changes to the Innovation & Entrepreneurship Certificate
(ii) Requirement changes to the Non-Majors' Access to Business Courses
(iii) Requirement changes to the Business Technology Management Certificate
(iv) Upper division requirement change to the Business Minor

b. Faculty of Environment (SCUS 17-27b)

1. Department of Archaeology

(i) Upper and lower division requirement changes to the:

- Archaeology Major
- Archaeology Honours
- Anthropology and Archaeology Joint Major
- Archaeology Minor
- Archaeology Extended Minor

c. Faculty of Health Sciences (SCUS 17-27c)

(i) Upper division requirement changes to the Health Sciences Major and Honours programs

SENATE COMMITTEE ON
UNDERGRADUATE STUDIES

SFU

SCUS 17-27a

Calendar Entry Change
Name of Program or Name of Faculty

Rationale for change:
The Faculty of Science regularized the selected topics course B*I**S**C*372 in Brewing Science that was accepted for this certificate. It is now B*I**S**C*373 Brewing Science, and B*I**S**C*374 Brewing Science with Lab. The changes below reflect these new course numbers.
Effective term and year: Spring 2017
The following program(s) will be affected by these changes: Innovation & Entrepreneurship Certificate *Please note these changes were made to the Fall 2017 calendar.

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 Charles Chang 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 [*link to:*
http://www.sfu.ca/students/calendar/2017/fall/fees-and-regulations/credentials-offered/definitions.html#cert].

Grade Requirements
In addition to normal university grade point average requirements, the Beedie School of Business requires a minimum 2.30 cumulative grade point average (CGPA) for entry into all 300 and 400 division business courses.

Program Requirements

Students must complete a minimum of 21 units, 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*:

BUS 477 - Startup Experience (4)
ENV 495 - Environmental Capstone (4) **
MSE 410 - Capstone Design Technical Project I (3)
MSE 411W - Capstone Design Technical Project II (3)
HSCI 495 – Applied Health Science Project (4)
IAT 499 – Graduation Project (6)

Students‡ will complete ~~three~~ two of*:

~~BISC 372 - Special Topics in Biology (3) ***~~
BISC 373 Brewing Science (3) or BISC 374 Brewing Science with Lab (3)
BUS 443 - New Product Development and Design (3)
BUS 450 – Managing Emerging Opportunities (3)
BUS 453 - Sustainable Innovation (3)
BUS 490, 491, 492, 493, 494, 495, 496 – Selected Topics in Business Administration****‡
CMPT 120 - Introduction to Computing Science and Programming I (3)
CMPT 320 - Social Implications - Computerized Society (3)
HSCI 130 - Foundations of Health Science (4)
HSCI 305 - The Canadian Health System (3)
HSCI 312 - Health Promotion: Individuals and Communities (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)
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.

SENATE COMMITTEE ON
UNDERGRADUATE STUDIES

Students are to consult with a Faculty of Environment advisor before enrolling in this course.

*** ~~BISC 372 - Selected Topics in Biology will only count toward this certificate when offered as The Science of Brewing. Alternatively, students with credit for BISC 373 – The Science of Brewing, may also use this course toward this requirement.~~

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

Calendar Entry Change
Beedie School of Business Undergraduate Program

Rationale for change:
This change will clarify the period during which non-Business students may access upper-division Business courses. Although we allow access from the day before classes begin until the end of the fifth day of classes, the current language is unclear. Current language implies that students may only have access for one day, when this is not the case. Please note that these are additional changes upon the edits already made for Fall 2017. The text below indicates modifications on the new (Fall 2017) calendar language.

Effective term and year:
Spring 2018

The following program(s) will be affected by these changes:
Beedie School of Business Undergraduate Program http://www.sfu.ca/students/calendar/2017/summer/faculties-research/faculty-business.html

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.**

Non-Majors' Access to Business Courses 300 AND 400 DIVISION BUS COURSE ENROLLMENT RESTRICTIONS

Students other than those accepted into a program in business administration may ~~complete~~ **enroll in** selected 300 and 400 division business administration courses **from the day before the term begins until the end of the first week of class,** contingent upon:
 	
   • space available ~~on the day before the term begins~~ **in the course during the period indicated**
   • meeting ~~the~~ **all** prerequisites for the requested course
   • required minimum overall SFU Business course GPA of 2.30
 	
Registration in BUS 360W is limited to students who are approved in a business major, joint major, honours, or joint honours program.
 	
Only business students admitted to the Accounting concentration will be permitted to enroll in upper division (300- and 400-level) accounting courses required for this concentration (with the exception of BUS 320).

Only students admitted to the Business minor will be permitted to enroll in upper division Business Minor courses (BUS 311, 340, 341, and 401).

Calendar Entry Change
Beedie School of Business, Undergraduate Program
Business Technology Management Certificate

Rationale for change: **Objective #1:** To offer two domain-specific pathways for students considering: a) the demand from the industry as identified by the ITAC (IT association of Canada), which grants the BTM accreditation. b) The availability of existing courses within SFU which broadly meeting the skills definitions under these specializations, as developed by ITAC. **Objective #2:** To upgrade the BTM-MIS specialization by i) introducing BUS 465 as a required course ii) adding CMPT 120 as an optional course.
Effective term and year: **Spring 2018**
The following program(s) will be affected by these changes: Business Technology Management Certificate

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.**

Business Technology Management CERTIFICATE Limitations Students may complete either the Certificate in Business Technology Management or the Certificate in Business Analytics and Decision Making, but not both certificates. Additionally, units applied to one certificate may not be applied to another Simon Fraser University certificate or diploma, as noted here [*link to http://www.sfu.ca/students/calendar/2017/summer/fees-and-regulations/credentials-offered/definitions.html#cert*]. Grade Requirements In addition to normal university grade point average requirements, the Beedie School of Business requires a minimum ~~2.40 cumulative grade point average (CGPA)~~ **2.30 SFU Business Course GPA** for entry into all 300 and 400 division business courses. **Program Requirements** Students complete a minimum of **26 to 28** units, **including 5 core courses, one of the TWO specializations, and an experiential component,** as below. The number of units will differ based on the BTM specialization selected by student (BTM-MIS = 28, BTM-Financial Services = 26)

Core courses

Students must complete all of:
~~CMPT 165 - Introduction to the Internet and the World Wide Web (3) or IAT 201 - Human-Computer Interaction and Cognition (3)~~
~~and all of~~

~~BUS 338 - Foundations of Innovation (3)~~
BUS 361 - Project Management (3)
BUS 362 - Business Process Analysis (4)
BUS 462 - Business Analytics (3)
BUS 464 - Business Data Management (3)
~~BUS 466 - Web-Enabled Business (3)~~
BUS 468 - Managing Information Technology for Business Value (3)
~~BUS 486 - Leadership (3)~~

Students must complete the courses associated with ONE of the TWO following specializations for the certificate:

Management Information Systems Specialization
BUS 465 – Business Systems Development (3)

And any TWO of:
BUS 338 – Foundations of Innovation (3)
BUS 466 – Web Enabled Business (3)
BUS 486 – Leadership (3)

One of:
CMPT 165 - Introduction to the Internet and the World Wide Web (3)
IAT 201 - Human-Computer Interaction and Cognition (3)
CMPT 120 – Intro to Computing Science & Prog. (3)

Financial Services Specialization
All Three of:
BUS 410 – Financial Institution (3)
BUS 413 – Corporate Finance (4)
BUS 418 – International Financial Management (3)

and completion of one of the following approved experiential or service learning components.

Experience in a volunteer, internship or other non-coop work role related to Business and Technology. Prior approval from one of the Undergraduate Academic Directors in the Beedie School of Business is required through submission of a detailed outline of the

activities that will be undertaken. Upon completion of these activities, students must submit a detailed outline of the activities undertaken to the Undergraduate Academic Directors in the Beedie School of Business for final approval.

Successful completion of at least one Co-operative Education (Co-op) work term with a focus related to Business and Technology. Prior approval from one of the Undergraduate Academic Directors in the Beedie School of Business is required. Upon completion of the Co-op work term, final approval will be awarded by one of the Undergraduate Academic Directors in the Beedie School of Business after reviewing the final work report and supervisor evaluation. Co-op should be declared within or prior to the first term of entry into the Business Technology Management Certificate Program, and not later than 90 credits. Students who choose to satisfy the experiential learning component through Co-op will also need to plan for completion of either Co-op certification (3 work terms) or degree designation (4 or more work terms). For more information on Co-op please see the Business Co-operative Education section of the SFU calendar: http://students.sfu.ca/calendar

SFU SENATE COMMITTEE ON
UNDERGRADUATE STUDIES

Calendar Entry Change
Beedie School of Business Undergraduate Program
Business Minor

Rationale for change: Please note that the edits below are not on current (Summer 2017) calendar language, but on language that was approved for the Fall 2017 calendar.
Effective term and year: **Spring 2018**
The following program(s) will be affected by these changes: **Business Minor**

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.**

Business Minor   Admission Requirements A specific number of seats will be allocated each year to the Business Minor program. Please refer to the admission requirements section. Grade Requirements In addition to normal university grade point average requirements, the Beedie School of Business requires a minimum 2.00 overall SFU Business course grade point average for entry into all 300 and 400 division business minor 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). Letters of Permission The Beedie School of Business does not normally approve letters of permission for students already enrolled at Simon Fraser University. Program Requirements Lower Division Requirements

Students complete all of

BUS 200 - Business Fundamentals (3)
BUS 233 – Introduction to Business Law & Ethics (3)
BUS 237 - Introduction to Business Technology Management (3)
BUS 251 - Financial Accounting I (3)
BUS 272 - Behavior in Organizations (3)
ECON 103 - Principles of Microeconomics (4)
and one of*

ECON 105 - Principles of Macroeconomics (4)
ENGL 111W - Literary Classics in English (3)
ENGL 112W - Literature Now (3)
ENGL 113W - Literature and Performance (3)
ENGL 114W - Language and Purpose (3)
ENGL 115W - Literature and Culture (3)
ENGL 199W - Introduction to University Writing (3)
PHIL 100W - Knowledge and Reality (3)
PHIL 105 - Critical Thinking (3)
PHIL 120W - Moral Problems (3)
WL 101W - Writing About Literature (3)
WL 103W - Pre-Modern World Literature (3)
WL 104W - Modern World Literature (3)
* any one of these courses may be replaced by any three unspecified transfer units in
English or in ENGL-Writing at the 100- or 200-level.

Upper Division Requirements

All upper division BUS courses have a prerequisite of 60 units but approved business
minors may complete the designated upper division BUS courses upon completion of 45
units and acceptance into the business minor program.

Core Courses

At least 16 upper division BUS units** are required including all of **the following core
courses**

Students must complete all core courses with a minimum C- grade.

BUS 311 - Introduction to Managerial Accounting and Financial Management (4)
BUS 341 - Fundamentals of Marketing (4)

BUS 340 - International Business Strategy (4)
BUS 401 - Developing Organizational Opportunities (4)
** A minimum of eight upper division units used toward the minor must have been completed at Simon Fraser University.

SFU SENATE COMMITTEE ON UNDERGRADUATE STUDIES

Calendar Entry Change
Name of Program or Name of Faculty   **ARCHAEOLOGY**

Rationale for change: Two newly created Archaeology courses (ARCH 312 and ARCH 313) need to be added to the 'Group IV' course group in the undergraduate program requirements.
Effective term and year: Spring 2018
The following program(s) will be affected by these changes: Archaeology Major, Honours, Minor, Extended Minor, Archaeology and Anthropology 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.**

Group IV - Topical Courses

ARCH 301 - Ancient Visual Art (3)
ARCH 312 - Greek Art and Archaeology (4)
ARCH 313 - Roman Art and Archaeology (4)
ARCH 321 - Select Regions in World Archaeology I (3)
ARCH 331 - Select Regions in World Archaeology II (3)
ARCH 332 - Special Topics in Archaeology I (3)
ARCH 333 - Special Topics in Archaeology II (3)
ARCH 348 - Archaeological Conservation (5)
ARCH 349 - Management of Archaeological Collections (5)
ARCH 376 - Quantitative Methods in Archaeology (5)
ARCH 377 - Historical Archaeology (5)
ARCH 378 - Pacific Northwest North America (3)
ARCH 434 - Archaeological Field Methods (3)
ARCH 485 - Lithic Technology (5)

SFU SENATE COMMITTEE ON
UNDERGRADUATE STUDIES

Calendar Entry Change
Name of Program or Name of Faculty   **ARCHAEOLOGY**

Rationale for change: Two newly created Archaeology courses need to be added to the undergraduate program Upper Division course requirements.
Effective term and year: Spring 2018
The following program(s) will be affected by these changes: Archaeology Major, Honours, Archaeology and Anthropology 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.**

Archaeology Major
Bachelor of Arts
…

Upper Division Requirements

Students complete at least 32 upper division archaeology units, which must include

    both Group I courses (ARCH 372, 471W)
    at least one Group II course
    at least one Group III course
    at least two Group IV courses, of which one must be ARCH **312, 313,** 321, ~~or~~ 331 or 378
…

Archaeology Honours
Bachelor of Arts
…

Upper Division Requirements

Students complete at least 50 upper division archaeology units, which must include

both Group I courses (ARCH 372, 471W)
at least one Group II course
at least one Group III course
at least two Group IV courses, of which one must be ARCH **312, 313,** 321, ~~or~~ 331 or 378

and all of
ARCH 376 - Quantitative Methods in Archaeology (5)
ARCH 499 - Honours Thesis (5)
ARCH 498 - Honours Reading (5)
…

Anthropology and Archaeology Joint Major
Bachelor of Arts
…

Upper Division Archaeology Requirements

Students complete at least 24 archaeology units, including

    both Group I courses (ARCH 372, 471W)
    at least one Group II course
    at least one Group III course
    at least two Group IV courses, of which one must be ARCH **312, 313,** 321, ~~or~~ 331 or 378
…

Calendar Entry Change
Name of Program or Name of Faculty

SCUS 17-27c

Rationale for change: **Changes to the BSc major program to reflect changes in the upper division laboratory course pre-requisites.**
Effective term and year: **Spring 2017**
The following program(s) will be affected by these changes: **Health Sciences major – Bachelor of Science – Life Sciences Concentration**

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.**

Health Sciences Major

Bachelor of Science

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Life Sciences Concentration Upper Division Requirements

Students complete all of

HSCI 305 - The Canadian Health System (3)
HSCI 321 - Human Pathophysiology (3)
HSCI 324 - Human Population Genetics and Evolution (3)
HSCI 330 - Exploratory Strategies in Epidemiology (3)
~~MBB 308 - Molecular Biology Laboratory (3)~~
MBB 331 - Molecular Biology (3)

and one of

STAT 302 - Analysis of Experimental and Observational Data (3)
STAT 305 - Introduction to Biostatistical Methods for Health Sciences (3)

and one of

HSCI 319W - Applied Health Ethics (3)

HSCI 327 - Global Health Ethics (3)

And one of
HSCI 323 - Principles of Pharmacology and Toxicology (3)
HSCI 338 - Animal Virology (3)
HSCI 426 - Immune System I: Basis of Innate and Adaptive Immunity (4)

And one of
BISC 357 - Gene Cloning
MBB 308 - Molecular Biology Laboratory
MBB 309 W - Biochemistry Laboratory

And one of
HSCI 440 - Cell Pathophysiology Laboratory (4)
HSCI 441 - Virology Laboratory (4)
HSCI 442 - Immunology Laboratory (4)

And two of
HSCI 427 - Immune System II: Immune Responses in Health and Disease (3)
HSCI 439 - Pathogenesis of Human and Animal Viral Infectious Diseases (3)
HSCI 474 - Seminar in Neuropharmacology (3)
HSCI 475 - Seminar in Molecular Mechanisms of Epigenetics (3)
HSCI 476 - Seminar in Molecular Basis of Drug Action and Environmental Exposure (3)
HSCI 477 - Seminar in Vaccine Immunology (3)
HSCI 478 - Seminar in Molecular Epidemiology of Infectious Diseases (3)
HSCI 482 - Senior Seminar in Infectious Diseases (3)
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SFU SENATE COMMITTEE ON
UNDERGRADUATE STUDIES

Calendar Entry Change
Name of Program or Name of Faculty

Rationale for change:

Health Science Honours – Bachelor of Science
Changes to the BSc major program to reflect changes in the upper division laboratory course pre-requisites.

Effective term and year: **Spring 2018**

The following program(s) will be affected by these changes:
Health Sciences Honours – Bachelor of Science - Life Sciences Concentration

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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.**

Health Sciences Major

Bachelor of Science

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Life Sciences Concentration Upper Division Requirements

Students complete all of

HSCI 305 - The Canadian Health System (3)
HSCI 321 - Human Pathophysiology (3)
HSCI 324 - Human Population Genetics and Evolution (3)
HSCI 330 - Exploratory Strategies in Epidemiology (3)
~~MBB 308 - Molecular Biology Laboratory (3)~~
MBB 331 - Molecular Biology (3)

and one of

STAT 302 - Analysis of Experimental and Observational Data (3)
STAT 305 - Introduction to Biostatistical Methods for Health Sciences (3)

and one of

HSCI 319W - Applied Health Ethics (3)
HSCI 327 - Global Health Ethics (3)

And one of
HSCI 323 - Principles of Pharmacology and Toxicology (3)
HSCI 338 - Animal Virology (3)
HSCI 426 - Immune System I: Basis of Innate and Adaptive Immunity (4)

And one of
BISC 357 - Gene Cloning
MBB 308 - Molecular Biology Laboratory
MBB 309 W - Biochemistry Laboratory

And one of
HSCI 440 - Cell Pathophysiology Laboratory (4)
HSCI 441 - Virology Laboratory (4)
HSCI 442 - Immunology Laboratory (4)

And two of
HSCI 427 - Immune System II: Immune Responses in Health and Disease (3)
HSCI 439 - Pathogenesis of Human and Animal Viral Infectious Diseases (3)
HSCI 474 - Seminar in Neuropharmacology (3)
HSCI 475 - Seminar in Molecular Mechanisms of Epigenetics (3)
HSCI 476 - Seminar in Molecular Basis of Drug Action and Environmental Exposure (3)
HSCI 477 - Seminar in Vaccine Immunology (3)
HSCI 478 - Seminar in Molecular Epidemiology of Infectious Diseases (3)
HSCI 482 - Senior Seminar in Infectious Diseases (3)

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