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MEMORANDUM

ATTENTION	Senate	**DATE**	December 8, 2017
FROM	Daniel Leznoff, Chair	**PAGES**	1/1
	Senate Committee on		
	Undergraduate Studies		
RE:	Program Changes		

For information:

Acting under delegated authority at its meeting of December 7, 2017 SCUS approved the following curriculum revisions effective Fall 2018.

a. Beedie School of Business (SCUS 17-56)

(i) Requirement changes to the Business Technology Management Certificate – Management Information Systems and Financial Services Specializations
(ii) Requirement changes to the International Experiential Learning Certificate

b. Faculty of Communication, Art and Technology (SCUS 17-57)

1. School of Communication

(i) Upper division requirement changes to the CMNS Honours Program, Options A and B

c. Faculty of Environment (SCUS 17-58)

1. School of Resource and Environmental Management (SCUS 17-58a)

(i) Lower and Upper division requirements changes to the REM Major program

2. Sustainable Development Programs (SCUS 17-58b)

(i) GPA requirement changes for the Development and Sustainability Minor program

d. Faculty of Science (SCUS 17-59)

1. Department of Molecular Biology and Biochemistry

(i) Upper division requirement changes to the MBB-CS Joint Majors and Honours programs

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

Rationale for change: Beedie would like to update the description of the experiential component required for the BTM certificate so that it provides more information to students about the types of experiences that would qualify, as well as the process for gaining approval of their experiential component. The new wording is clearer and provides more details so students will have a better idea of what types of experiences will or will not qualify for the certificate's experiential component. Information on who approves this has also been clarified.
Effective term and year: Fall 2018
The following program(s) will be affected by these changes: Business Technology Management Certificate – both the Management Information Systems and Financial Services Specializations.

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.**

and completion of one of the following approved experiential or service learning components.   - Experience in a volunteer, internship, **research assistantship** or other non co-op work role **within a student group, social enterprise, charitable organization, or non-profit organization** related to Business and Technology.* Prior approval ~~from one of the Undergraduate Academic Directors in the Beedie School of Business~~ is required **before the commencement of this experience by submitting** ~~through submission of~~ a detailed outline ~~of the~~ **describing** activities that will be undertaken. Upon completion of these activities, students must submit a detailed outline **and description of activities.** ~~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.* **A description (written by either**

the student or the organization) of the organization, the students' role and activities undertaken with that organization, and signed and validated by the employer/supervisor must be submitted. ~~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 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 three (3) work terms for a degree designation. For more information on Co-op please see the Business Co-operative Education section of the SFU calendar:~~ https://www.sfu.ca/students/calendar.

*Experience which will be considered relevant includes those that require a significant amount of work activities such as: (i) planning, managing and/or leading a business technology project; (ii) analyzing a business need and presenting a technology based solution or plan to address need; (iii) designing and presenting a technology enabled solution to a business problem; (iv) analyzing a business process and developing a plan to implement a technology enabled solution; and/or (v) developing a technology based solution to a business problem.

Calendar Entry Change
Beedie School of Business Undergraduate Program
International Experiential Learning Certificate

Rationale for change:

The following is a revision to the original IELC, which dates back to 2007. The revisions are necessary as the current IELC is no longer functional or viable for Beedie students, due to:

a)   Outdated course offerings: some of the courses offered in the existing IELC are no longer offered and/or require heavy pre-requisites. The previous list of acceptable courses is also minimal and needs to be updated to include a wider variety of courses that have a global perspective.

b)   International Experiential Components: The current IELC structure requires two international experiences abroad, one of which must be a full-time exchange term. This presents a major barrier, both from a financial and time commitment perspective, restricting the majority of Beedie students from completing the certificate requirements. By removing one of the international experiential components and adding an international Co-op stream to the certificate, we increase the pool of eligible students. As Beedie focuses on increasing the international mobility experience of students, we expect a long-term increase in demand for this certificate. Beedie students would be able to earn a credential for their international experience, using this as leverage for their professional goals both before and after graduation.

c)   Lack of International Business course(s): the current IELC does not feature any International Business courses from the Beedie School of Business. The revised IELC requires students to take BUS 346-3 and an additional International Business (IB) focused course from the International Business concentration. The inclusion of IB courses further aligns the certificate with Business Major degree requirements moving forward from Fall 2017.

Effective term and year:

Fall 2018

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

International Experiential Learning 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.**

April 2016

International Experiential Learning

CERTIFICATE

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).

A minimum grade point average of 2.00 calculated on all courses applied towards the certificate is required for graduation from a business certificate.

Program Requirements

Students complete ~~a minimum of~~ 18-**21** units which are earned through **a combination of coursework and an international experiential component.** ~~the following three activities.~~

Core Courses

1. Language Component

Students must complete a 3-unit language course.

- ~~participation in two international activities, one of which must be a study term abroad as an exchange student at a Beedie School of Business preferred partner institution~~
- ~~completion of two three-unit language courses in a second language other than English, commonly spoken in the region in which either one of the international activities will take place, and~~
- ~~completion of a three unit course, the topic of which will relate to the socio-economic and/or cultural environment in which the international activities will take place.~~

2. International Business Component
- **BUS 346-3**

Plus one of:

- BUS 418-3 International Financial Management
- BUS 430-3 Cross Cultural Management
- BUS 431-3 Business with East Asian Countries
- BUS 432-3 International Human Resource Management
- BUS 434-3 Foreign Market Entry
- BUS 435-3 Management of International Firms
- BUS 447-3 Global Marketing Management
- BUS 49X-3 (approved International Business topic)

3. Global Perspectives Component

Students must complete 3 units from the following list:

Communications
CMNS 247-4 International Communication

Economics
ECON 102-3 The World Economy
ECON 342-3 International Trade
ECON 355W-4 Economic Development
ECON 372-3 The Economics of Globalization

Geography
GEOG 102-3 World Problems in Geographic Perspective
GEOG 241-3 Social Geography
GEOG 328-3 Labour Geographies

Health Science
HSCI 160-3 Global Perspectives on Health

Sociology and Anthropology
SA 302W-4 Global Problems and the Culture of Capitalism
SA 363-4 Process of Development and Underdevelopment

International Studies
IS 101-3 Introduction to International Studies: Studying Global Conflict and Cooperation
IS 200-3 Historical Perspectives on Diplomatic Relations, International Security and Law
IS 209-3 Latin America: The National Period
IS 210-3 Comparative World Politics: Trajectories, Regimes, Challenges
IS 220-3 Wealth and Poverty of Nations
IS 230-3 Transnationalism and Society
IS 265-3 Global History from the Revolutionary Age to the Present

IS 280-3 War in the Balkans and the Making of the 21st Century
IS 302-4 Introduction to Humanitarian Intervention
IS 303-4 Ethnic Minorities, Identity Politics and Conflict in Southeast Asia
IS 304-4 Russian Foreign and Security Policies
IS 313W-4 Nationalism, Democracy and Development in Modern India
IS 314-4 National, Regional and International Politics in Southeast Asia
IS 315-4 Introduction to Middle East Politics
IS 410-4 Politics, Institutions and Development
IS 412-4 Central Asia: Democracy, Development and Conflict
IS 414-4 Current Regional Issues in Southeast Asia
IS 415-4 Islamist Trends in Middle East Politics
IS 421-4 The Economics of International Organizations and Development
IS 427-4 Globalization, Poverty and Inequality
IS 435-4 Special Topics in Latin American Studies

~~Exchange and~~ International Experiential Component

Students must complete one of the following international experiential components:

Stream 1: Study Abroad Component

One study abroad term (at least nine units) as an exchange student at an SFU exchange partner or one full time SFU field school program or an alternate approved full time Study Abroad program.

Stream 2: International Co-op Component

Participation in one full-time Co-operative Education term

Stream 2 students must also complete 2 additional Language, International Business, or Global Perspectives courses from the lists above. One of these two courses must be an upper division (300 or 400 level) course. These two courses must be worth a minimum of 3 units each.

~~There are two required international activities. The first will consist of one study term (at least nine units) abroad as an exchange student at a Beedie School of Business preferred partner institution.~~

~~For the second international activity, students will choose one of the following three options.~~

- a second international exchange at the same or another Beedie School of Business preferred partner institution; or
- a Beedie School of Business sponsored field school; or
- an international co-operative education work term

Although students will be encouraged to choose one region or country to fulfill these requirements, they will have the option to enrol in international exchanges, field schools or co-operative education in countries or regions that are different from their first exchange.

Language Component

To increase exposure to the local culture, students complete two three-unit courses in a language(s) of the region (preferably the host country) in which the exchange, Beedie School of Business sponsored field school, or international co-operative education work term will take place. Students attending an international activity in an English-speaking country will have to select a second language that is commonly spoken in the region.

These courses may be completed at Simon Fraser University, or at any institution of the student's choosing, provided that Simon Fraser University accepts the course as transfer credit, and the course could be completed during the exchange term abroad, or the international co-operative education work term.

The purpose of this requirement is to strengthen the student's ability to communicate in the host country's language. Students who are already fluent in a language of the region may fulfil the language requirement by pursuing a third language, or by completing business courses that are taught in their second language.

Socio-economic and/or Cultural Course

Prior to the exchange term, students complete, at Simon Fraser University, one of the following courses (or other courses with appropriate content and prior approval from the Beedie School of Business). Note that some of these courses may have prerequisites.

For students in the Asia region

ASC 200 - Introduction to Chinese Civilization (3)
ASC 201 - Introduction to Japanese Civilization (3)
ASC 202 - Studies in Asian Cultures (3)
HIST 206 - Japan Since 1868 (3)
SA 275 - China in Transition (SA) (4)
For students in the Europe Region

HIST 225 - 20th Century Europe (3)
For students in the Latin America Region

~~Alternatively, students may complete a similar course while studying abroad on an exchange term at the host institution, with prior approval from the Beedie School of Business.~~

SFU

Calendar Entry Change　　　　　　　　**CMNS Honours Program**
Name of Program or Name of Faculty:　**School of Communication (CMNS)**

Rationale for change:
To make the calendar language for CMNS Honours, Options A and B, more clear for students. To make the language for Option A and Option B more consistent.

Effective term and year:　FALL　**2018.**

The following program(s) will be affected by these changes:
　CMNS Honours Program, Options A and B.

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.**

Option A: Honours Project

A minimum total of 60 upper division units is required, to include the following:

- ~~seven~~ **nine** upper division CMNS courses, at least four must be taken at SFU, **including:**
  - **CMNS 304W - Communication in Everyday Life (4) or CMNS 323W - Cultural Dimensions in Advertising (4) or CMNS 455W - Women and New Information Technologies (4)**
  - **CMNS 362 – Evaluation Methods for Applied Communication Research (6)**
  - **CMNS 497 – Honours Research Proposal (5) ***
  - **CMNS 498 – Honours Research Project (10) ****
  - **2 other CMNS 400 level courses, at least one must be taken at SFU.**
- ~~minimum of two 400 level CMNS courses, at least one must be taken at SFU.~~

~~CMNS 304W – Communication in Everyday Life (4) or CMNS 323W – Cultural Dimensions in Advertising (4)~~
~~CMNS 362 – Evaluation Methods for Applied Communication Research (6)~~
~~CMNS 497 – Honours Research Proposal (5) *~~
~~CMNS 498 – Honours Research Project (10) **~~

*Students must complete at least 90 units with at least 20 units in upper division communication before enrolling in CMNS 497. A plan must be approved by the faculty member supervisor(s) and the honours co-ordinator before work is begun.

**Students must obtain a grade of B or higher in CMNS 497 in order to continue on with CMNS 498.

Students who obtain a grade of B- or lower in CMNS 497, but who still have an overall CGPA of 3.00 or higher, can still complete an honours degree through Option B.

Option B: Additional Upper Division Requirements

A minimum total of 60 upper division units is required, to include the following:

- eleven upper division CMNS courses, at least eight must be taken at SFU, **including:**
  - **CMNS 304W – Communication in Everyday Life (4) or CMNS 323W – Cultural Dimensions in Advertising (4) or CMNS 455W – Women and New Information Technologies (4)**
  - **CMNS 362 – Evaluation Methods for Applied Communication Research (6)**
  - **Minimum of 6 CMNS 400 level courses, at least five must be taken at SFU.**

- ~~minimum of six 400 level CMNS courses, at least five must be taken at SFU.~~

~~CMNS 304W – Communication in Everyday Life (4) or CMNS 323W – Cultural Dimensions in Advertising (4)~~
~~CMNS 362 – Evaluation Methods for Applied Communication Research (6)~~

Program Requirements

Students complete 120 units, as specified below. Additional upper division units will be required to total a minimum of 45 upper division units.

~~Visit the program overview for a suggested course sequence.~~

<u>Note: some of the courses below have prerequisites not included in the REM major requirements. Students are responsible for satisfying the prerequisites for all courses in their program. Students should review the upper division program requirements in advance to determine any lower division prerequisites they should complete.</u>

Lower Division

Complete all of

FNST 101 - Introduction to First Nations Studies (3)
GEOG 111 - Earth Systems (3)
POL 253 - Introduction to the Public Policy Process (3)
<u>REM 100 – Global Change (3)</u>
REM 200 - Introduction to Resource and Environmental Management in Canada (3)

Choose 1 of

~~EVSC 100 - Introduction to Environmental Science (3)~~
GEOG 215 - Biogeography (3)
BISC 204 - Introduction to Ecology (3)

Choose 1 of

GEOG 251 - Quantitative Geography (3)
STAT 101 - Introduction to Statistics (3)
STAT 201 - Statistics for the Life Sciences (3)
STAT 203 - Introduction to Statistics for the Social Sciences (3)
~~STAT 270 - Introduction to Probability and Statistics (3)~~

~~Choose 1 of~~

~~BISC 101 - General Biology (4)~~
~~BISC 102 - General Biology (4)~~

~~Choose 1 of~~

~~ENV 221 - Systems Thinking and the Environment (3)~~
~~ENV 222 - Environmental Controversy: An interdisciplinary study of environmental issues (3)~~

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Choose 1 of

ENV 221 - Systems Thinking and the Environment (3)
GEOG 253 - Introduction to Remote Sensing (3)
GEOG 255 - Geographical Information Science I (3)

Choose 1 of

ARCH 201 - Introduction to Archaeology (4)
ARCH 286 - Cultural Heritage Management (4)
FNST 212 - Indigenous Perceptions of Landscape (3)

Choose 1 of

FNST 212 - Indigenous Perceptions of Landscape (3)
GEOG 221 - Economic Geography (3)
GEOG 241 - Social Geography (3)
REM 201 - Introduction to Sustainable Community Development (3) or SCD 201 - Introduction to Sustainable Community Development (3)
REM 281 - Introduction to Sustainable Community Development (3) or SD 281 - Introduction to Sustainable Community Development (3)

Upper Division

Complete all of

REM 311 - Applied Ecology and Sustainable Environments (3)
REM 321 - Ecological Economics (4)
REM 356W - Institutional Arrangements for Sustainable Environmental Management (3)

Biophysical Perspectives (choose one of)

Biophysical Perspectives on Resource and Environmental Management (choose one of)

ARCH 363 Landscape Archaeology (3)
GEOG 315 - World Ecosystems (4)
GEOG 317 – Soil Science (4)
GEOG 319 - Landscape Ecology (4)
REM 311 - Applied Ecology and Sustainable Environments (3)
REM 370 - Global Resource Issues in Oceanography (3)
REM 375 - Coastal Ecology and Conservation in BC (3)

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Quantitative Methods in Resource and Environmental Management (choose one of)

~~GEOG 351 - Multimedia Cartography (4)~~
GEOG 352 - Spatial Analysis (4)
GEOG 353 - Advanced Remote Sensing (4)
GEOG 355 - Geographical Information Science II (4)
~~GEOG 356 - 3D Geovisualization (4)~~
REM 412 - Environmental Modeling (3)
REM 423 – Research Methods in Fisheries Assessment (4)

Indigenous Perspectives on Resource and Environmental Management (choose one of)

FNST 332 - Ethnobotany of British Columbia First Nations (3)
FNST 353W - First Nations Heritage Stewardship (3)
~~FNST 401 - Aboriginal Peoples and Public Policy (3)~~
FNST 433 - Indigenous Environmental Justice and Activism (4)
REM 406 – Indigenous People and Co-management (4)
REM 407 – Indigenous Governance and Resource Relationships (4)

Social and Community Perspectives on Resource and Environmental Management (choose one of):

~~ARCH 363 Landscape Archaeology~~
ARCH 365 - Archaeological Perspectives on Human Ecology (3)
~~ENV 320W - Ethics and the Environment (3)~~
GEOG 377 - Environmental History (4) or HIST 377 - Environmental History (4)
GEOG 389W - Nature and Society (4)
REM 381 - Sustainable Community Development Theory and Practice (4) or SD 381 - Sustainable Community Development Theory and Practice (4)
SD 401 - Issues, Concepts and Cases in Development and Sustainability (4)

Communication and Conflict Resolution (choose one of:)

CMNS 342 - Science and Public Policy: Risk Communication (4)
~~CMNS 347 - Communication in Conflict and Intervention (4)~~
CMNS 349 - Environment, Media and Communication (4)
~~CMNS 447 - Negotiation and Dialogue as Communication (4)~~
~~DIAL 390W - Semester: Dialogue (5)~~
DIAL 460 - Seminar in Dialogue and Public Issues (4)

3

ENV 320W - Ethics and the Environment (3)
ENV 452 - Environmental Education (8) or EDUC 452 – Environmental Education (8)
EVSC 300 - Seminar in Environmental Science (3)
REM 483 – Leadership in Sustainable Community Development (4) or SD 483 – Leadership in Sustainable Community Development (4)

~~Legislation, Policy and Regulation (choose one of:)~~

Policy, Planning and Regulation (choose one of)

ARCH 386 - Archaeological Resource Management (3)
ENV 319 - Environmental Law (3)
FNST 401 - Aboriginal Peoples and Public Policy (3)
~~GEOG 445 - Resource Planning (4)~~
~~REM 356 - Institutional Arrangements for Sustainable Environmental Management (3)~~
REM 446 - Environmental and Social Impact Assessment (4)

~~Resource Management: Information Integration and Trade-offs in Decision Making (choose two of:)~~

Resource and Environmental Management Sectors (choose two; one must be at the 400 level)

~~ENV 321 - Ecological Economics (4) or REM 321 - Ecological Economics (4)~~
~~GEOG 322W - World Resources (4)~~
GEOG 327 - Geography of Tourism (4)
GEOG 385 - Agriculture and the Environment (4)
REM 350 - Sustainable Energy and Materials Management (4)
REM 427 - Avalanche Risk Management (4)
~~REM 370 - Global Resource Issues in Oceanography (3)~~
REM 445 - Environmental Risk Assessment (3)
REM 454 – Water Security (4)
REM 471 - Forest Ecosystem Management (3)
REM 481 – Social Enterprise for Sustainable Community Development (4) or SD 481 - Social Enterprise for Sustainable Community Development (4)

Upper Division Electives

Any other two REM courses from the full list of 300 and 400 level REM courses.

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~~**Capstone Experience (choose one of:)**~~

~~DIAL 460 - Seminar in Dialogue and Public Issues (4) *~~
~~DIAL 461 - Field Placement in Dialogue (3) *~~
~~ENV 491 - Directed Study in Environment (3) *~~
~~ENV 495 - Environmental Capstone (4)~~
~~GEOG 497 - International Field Study (5) *~~

~~* Requires ERM director's approval prior to enrollment~~

<u>Capstone Experience (complete the following)</u>

<u>REM 495 – Resource and Environmental Management Capstone (4)</u>

SENATE COMMITTEE ON
UNDERGRADUATE STUDIES

Calendar Entry Change
Development and Sustainability Minor

Rationale for change: Removal of the 2.75 GPA requirement. This requirement is restrictive to students. Removing it would also put this minor in line with the requirements of most other minors across the university.
Effective term and year: FALL 2018
The following program(s) will be affected by these changes: DEVS 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.**

<u>Development and Sustainability Minor</u>   This minor program explores various aspects of sustainability that arise from the complex relationship between development and the environment, including discussion of practice and policy issues in relation to problem-solving and examination of thematic areas at various scales (from local to global) that enhance the quality of life.   Program entry ~~is on a competitive basis and~~ requires completion of 30 lower division units. ~~A 2.75 cumulative grade point average (CGPA) is required.~~ Students must also be in good standing in their major program's home department.

Calendar Entry Change: addition of a new Upper Division course option
Name of Program or Name of Faculty: Molecular Biology and Biochemistry and Computing Science Bachelor of Science

Rationale for change: A new course, MBB 464: From Genome to System, has been added to the MBB curriculum. This course has been approved by Senate and has now been added to the Upper Division course options list. Computing Science has approved this addition.
Effective term and year: Fall 2018
The following program(s) will be affected by these changes: MBB-CS Joint Majors Program   MBB-CS Joint Honours 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.**

Upper Division Requirements

Students complete all of
CMPT 307 - Data Structures and Algorithms (3)
CMPT 354 - Database Systems I (3)
CMPT 405 - Design and Analysis of Computing Algorithms (3)
CMPT 441 - Computational Biology (3)
MBB 308 - Molecular Biology Laboratory (3)
MBB 331 - Molecular Biology (3)
MBB 342 - Introductory Genomics and Bioinformatics (3)
STAT 302 - Analysis of Experimental and Observational Data (3)

and one of
CMPT 376W - Technical Writing and Group Dynamics (3)
MBB 309W - Biochemistry Laboratory (4)

and at least two of
CMPT 305 - Computer Simulation and Modelling (3)
CMPT 310 - Artificial Intelligence Survey (3)
CMPT 340 - Biomedical Computing (3)
CMPT 361 - Introduction to Computer Graphics (3)
MACM 316 - Numerical Analysis I (3)
MBB 321 - Intermediary Metabolism (3)

and at least three of
CMPT 413 - Computational Linguistics (3)
CMPT 419 - Special Topics in Artificial Intelligence (3)
CMPT 454 - Database Systems II (3)

SFU SENATE COMMITTEE ON UNDERGRADUATE STUDIES

MBB 438 - Human Molecular Genetics (3)
MBB 441 - Bioinformatics (3)
MBB 461 - Comparative Genomics (3)
MBB 462 - Human Genomics (3)
MBB 463 - Forensic Genomics (3)
MBB 464 - From Genome to System (3)