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MEMORANDUM

ATTENTION Senate DATE June 21, 2018
FROM Jeff Derksen,
Chair of Senate Graduate Studies
Committee (SGSC)
RE: Course Changes



For information:

Acting under delegated authority and at its meeting of June 5, 2018, SGSC approved the following course changes effective **Spring 2019**:

Beedie School of Business

- 1) Course change (equivalency): BUS 741 **effective Fall 2018**
- 2) Course change (unit change and equivalency): BUS 783
- 3) Course change (equivalency): BUS 643

Faculty of Communication, Art and Technology

School of Communication

- 4) Course change (unit change and prerequisite): CMNS 896

Faculty of Science

Department of Chemistry

- 5) Course change (title and description): CHEM 754

Department of Statistics and Actuarial Science

- 6) Course change (title and description): STAT 840

Individualized Interdisciplinary Studies

- 7) Course change (units): INS 899



BEEDIE SCHOOL
OF BUSINESS

Segal Graduate School

Office of the Associate Dean
500 Granville Street
Vancouver, BC V6C 1W6

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FAX 778.782.5122

busadmin@sfu.ca

Memo to SGSC

To: Senate Graduate Studies Committee
From: Andrew Gemino, Associate Dean, Graduate Programs
Re: Graduate Course Change – Equivalency
Date: June 12, 2018

The following curriculum revisions have been approved by the Beedie School of Business and are forwarded to the Senate Graduate Studies Committee for approval. These curriculum items should be effective for **Fall 2018**.

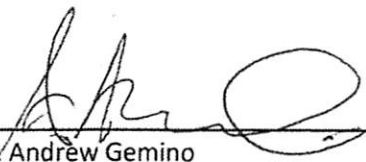
~~BUS 561: Course equivalency change~~

~~Due to administrative error, graduate course BUS 561: Special Topics: Business and Indigenous Peoples is not equivalent to BUS 741. Please remove this equivalency effective Fall 2018.~~

BUS 741: Course equivalency change

Due to administrative error, graduate course BUS 741: Business and Indigenous Peoples is **not** equivalent to BUS 561. Please remove this equivalency effective Fall 2018.

Thank you for your attention herein. Should you have any questions or concerns, please do not hesitate to contact me.



Dr. Andrew Gemino
Professor, Management Information Systems
Associate Dean, Graduate Programs, Beedie School of Business



Graduate Course Change

Attach a separate document if more space is required.

Course Subject/Number BUS 741	Units 2	Effective Term and Year FALL 2018
Course Title Business and Indigenous People		
Rationale for Change: Course is no longer equivalent to the special topics version		

Proposed Changes (Check all that apply)

Course number
 Units*
 Title
 Description
 Prerequisite
 Other equivalency

Complete only the fields to be changed

FROM	TO
Course Subject/Number	Course Subject/Number
Units	Units*
Course Title	Course Title (max 100 characters)
Course Short Title	Course Short Title (max 30 characters)
Description	Description
Prerequisite	Prerequisite
Other Students with credit for BUS 561: Special Topics (Business & Indigenous Peoples) may not take this course for further credit.	Other -

* Program requirements may need to be revised when course units are changed. Please review the calendar and submit any relevant program revisions resulting from this course change.

REMINDER: All course changes must be identified on a cover memo and confirmed as approved when submitted to FGSC and SGSC.

CONTACT PERSON

Department / School / Program Beedie	Contact name Lesley McKay	Contact email buscoord@sfu.ca
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DEPARTMENTAL APPROVAL

Department Graduate Program Committee	Signature	Date
Department Chair	Signature	Date

FACULTY APPROVAL

Faculty Graduate Studies Committee (FGSC) Andrew Gemino	Signature 	Date June 12, 2018
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SENATE GRADUATE STUDIES COMMITTEE APPROVAL

Senate Graduate Studies Committee (SGSC) Jeff Berkson	Signature 	Date June 13, 2018
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ADMINISTRATIVE SECTION (for DGS office only)

Course Attribute: _____
 Course Attribute Value: _____
 Instruction Mode: _____
 Attendance Type: _____

If different from regular units:
 Academic Progress Units: _____
 Financial Aid Progress Units: _____



**BEEDIE SCHOOL
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Memo to SGSC

To: Senate Graduate Studies Committee
From: Andrew Gemino, Associate Dean, Graduate Programs
Re: Curriculum revisions to Management of Technology MBA
Date: April 10, 2018

The following curriculum revisions have been approved by the Beedie School of Business and are forwarded to the Senate Graduate Studies Committee for approval. These curriculum items should be effective Spring 2019.

Please include them on the next SGSC agenda.

- ~~MOT Program Change: Removal of Applied Project~~
- **Course Change: BUS 783 Unit Increase**
- ~~Revised MOT MBA calendar entry to reflect program change and unit increase~~

Thank you for your attention herein. Should you have any questions or concerns, please do not hesitate to contact me.

Dr. Andrew Gemino
Professor, Management Information Systems
Associate Dean, Graduate Programs, Beedie School of Business



**BEEDIE SCHOOL
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SGSC Rationale Memo: Removal of MOT MBA Applied Project

To: Senate Graduate Studies Committee
From: Kamal Masri, Academic Director, Management of Technology MBA
Re: Removal of MOT Applied Project
Date: April 10, 2018

Historically, MOT students have been given the option of completing an Applied Project (6-unit BUS 780) or the Capstone Simulation plus two additional 2-unit courses in their final term. Over the past three years, very few students have utilized the Applied Project option.

2014: 6 students

2015: 3 students

2016: 5 students

Offering the Applied Project as an alternative limits flexibility of course offerings in the final term of the MOT. Due to low interest in BUS 780, and considering scheduling constraints of the proposed 4-unit BUS 783 (Entrepreneurship), discontinuing the Applied Project as an MOT program requirement option is proposed. The Capstone Simulation (BUS 782) is still a requirement.

BUS 780 will be removed from the MOT academic calendar entry, but still remain an active course. The use of BUS 780 to fulfill the MOT program requirement of 54 units is at the discretion of the academic director, and would be processed as a course exception on a case-by-case.

Regards,

Dr. Kamal Masri
Senior Lecturer, Management Information Systems
Academic Director, Management of Technology MBA



Graduate Course Change

Attach a separate document if more space is required.

Course Subject/Number	BUS 783	Units	2	Effective Term and Year	Spring 2019
Course Title	Entrepreneurship				
Rationale for Change:	To allow for more complete coverage of topic content, in-depth learning, & project development. To strengthen the commitment to B3's vision of developing innovative leaders. In other Beedie MBA programs, Entrepreneurship is a full-course instead of a half-course.				

Proposed Changes (Check all that apply)

- Course number
 Units*
 Title
 Description
 Prerequisite
 Other Equivalency (DVB)

Complete only the fields to be changed

FROM	TO
Course Subject/Number	Course Subject/Number
Units 2	Units* 4
Course Title	Course Title (max 100 characters)
Course Short Title	Course Short Title (max 30 characters)
Description	Description
Prerequisite	Prerequisite N/A
Other Equivalent Course: BUS 643 (DVB)	Other Equivalent Course: None (DVB)

* Program requirements may need to be revised when course units are changed. Please review the calendar and submit any relevant program revisions resulting from this course change.

REMINDER: All course changes must be identified on a cover memo and confirmed as approved when submitted to FGSC and SGSC.

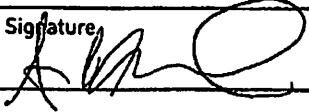
CONTACT PERSON

Department / School / Program Beedie Graduate Programs	Contact name Lesley McKay	Contact email buscoord@sfu.ca
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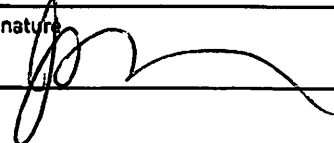
DEPARTMENTAL APPROVAL

Department Graduate Program Committee	Signature	Date
Department Chair	Signature	Date

FACULTY APPROVAL

Faculty Graduate Studies Committee (FGSC) Andrew Gemino	Signature 	Date April 17, 2018
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SENATE GRADUATE STUDIES COMMITTEE APPROVAL

Senate Graduate Studies Committee (SGSC) Jeff Derksen	Signature 	Date June 21 2018
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ADMINISTRATIVE SECTION (for DGS office only)

Course Attribute: _____
 Course Attribute Value: _____
 Instruction Mode: _____
 Attendance Type: _____

If different from regular units:
 Academic Progress Units: _____
 Financial Aid Progress Units: _____



BUS 783: ENTREPRENEURSHIP

Instructor:
Classroom:
Email:

Semester:
LMS: canvas.sfu.ca

COURSE DESCRIPTION

Business 783 is designed for students interested in entrepreneurship, whether in a startup or a new line of business within an existing firm or organization. The focus of the course is learning how to create, test, validate and pitch the idea for a new venture; where and how to get it staffed and funded, and how to scale up.

We will cover the generation of ideas; testing, validating and recalibrating your assumptions with real customers; planning, building and scaling a new initiative or venture; types of securities; the investor pitch; sources of funding and the terms under which they may be received. We shall delve into why 80% of all new ventures fail and how to improve your chances of success.

We will cover the leading entrepreneurship and innovation literature, supplemented by the direct experience of the instructor and guests. The course will run in the seminar style – students are expected to have completed the readings and bring discussion notes to the class; participation is expected and carries a significant proportion of the overall grade.

OBJECTIVES

This course is based largely on the Lean Startup framework designed by Steve Blank. Each class will cover key elements in the framework. By the end of the course you should be equipped with a sufficient understanding of the Lean Startup to apply it appropriately in real life, and if you do your chances of success as an innovator will be significantly improved.

COURSE EXPECTATIONS

The semester commences on XXX and is completed on XXX. During this time you can expect at least 10 hours of out-of-class work weekly. These out-of-class activities will include, participating in online activities, preparing readings and cases, answering practice questions, doing library research and reviewing sources, conducting interviews, and project planning.

This course may be scheduled in a compressed format where classes are held in intensive session, but expectations of consistent preparation and participation remain for the length of the semester.

BOOK AND MATERIALS

1. Steve Blank and Bob Dorf, *The Startup Owner's Manual*. (2012). K&S Ranch Publishing ISBN 9780984 999309
2. Blank, S. *Why Lean Startup Changes Everything*. (2013) Harvard Business Review (can be downloaded from <http://steveblank.com/>)
3. Selected readings and videos



LEARNING AND ASSESSMENT

Assessment summary

At least a week before the first class, students are required to organize into groups of five (one group may have six). Each group needs to enter the course with an idea for a new product or service and during the course you will be required to speak to real prospective customers to validate your hypotheses. Choose a name for your group.

Note: The instructor maintains a log of all student contributions in each class which forms the basis of your final participation mark.

Individual	Business Model Canvas Case	10%
	Writing a Term Sheet	15%
	Building a Capitalization Table	10%
	Class participation	15%
Group	BMC and VPC #1	10%
	BMC and VPC #2	10%
	BMC and VPC #3	15%
	Venture Pitch	15%
	Total	100%

Assignment 1: Business Model Canvas for a New Venture

When: in second session

You will have read about the business model canvas prior to the second session. In that session the instructor will describe a startup situation and each student will then be required to complete a business model canvas and prescribe a set of next steps, with the instructor on hand to answer questions. The objective is to familiarize the student with the use of the BMC.

Assignment 2: Business Model Canvas & Value Proposition Canvas 1 (Group)

Due: in fourth session

Your group has come up with an idea for a simple new product or service. It should not be something that already exists, but it can be a substantially new variant of an existing product or service. For this assignment one member of your group will send me the following via an email entitled 'Bus 783: (group name) Canvas #1': (1) a cover slide with your group's name and the names of its members; (2) a single slide describing the product or service concept; (3) two slides that show complete Business Model Canvas and Value Proposition Canvas containing your initial hypotheses. Note: for BMC templates see <http://www.businessmodelgeneration.com/canvas/bmc> and for VPC templates see <http://www.businessmodelgeneration.com/canvas/vpc>

Assignment 3: Writing a Term Sheet (individual)

Due: in sixth session

Following a presentation on term sheets, students will build a cap table for a company described by the instructor.



Assignment 4: Business Model Canvas & Value Proposition Canvas 2 (Group) Due: in sixth session

You should by now have completed two rounds of customer discovery and found out whether potential minor or major pivots are required. Each group will present (1) an introductory slide describing the process so far, (2) three sequential BMCs showing how the hypotheses changed from day 1, after the first round of customer discovery and after the second round, (3) Current VPC and (4) slide with open issues/next steps.

Assignment 5: Building a Capitalization Table (individual) Due: in eighth session

In class assignment: following a discussion on cap table structure, students will build a cap table for a company described by the instructor.

Assignment 6: BMC & VPC Final Presentation (group) Due: In ninth session

Prior to the final presentation you will need to talk to a *minimum* of ten real prospective customers to test the hypotheses in your BMC at least twice: your initial hypotheses will likely prove incorrect and need to be re-stated and re-tested, and a full pivot may be in order. Your group presentation will include the following: (1) the initial product or service concept and the initial BMC & VPC Canvas hypotheses from assignment #2 ; (2) how you tested your initial VPC hypotheses and how they changed (show second VPC) ; (3) how you tested your second VPC and a third VPC that contains the resulting hypotheses; (4) revised BMC that aligns with your third VPC; (5) what an MVP should look like and next steps for the venture. IF you conclude that after two rounds of customer tests your concept simply doesn't have a market you can explain why instead of describing an MVP.

Assignment 7: Investor Pitch (group) Due: In eleventh session

In class assignment: following a discussion on cap table structure, students will build a cap table for a company described by the instructor.

Class Schedule

The classes are planned as follows:

Session 1: So you want to start something new!

You have the urge to start a new venture – inside your current company or to start a new one. In this session we'll get to know each other and cover a framework for approaching the idea for a new product, service or venture.

After brief student introductions I will introduce myself and provide overview of my entrepreneurial journey with lessons learned along the way. Look me up on LinkedIn.

We will then hold group discussions on generating the idea for the new venture you will develop in the course.

Session 2: The Lean Startup Model

The class will start with an interactive discussion of the readings on the Lean Startup: Why a startup is not a smaller version of a big company; an introduction to Customer Development and the Business Model Canvas.

Assignment 1 (in class): each student will complete a business model canvas for the new venture case presented.



Session 3: Customer Development, The Pivot, Building a Founding Team

Comprehensive overview and interactive discussion of Customer Development; setting up a series of hypotheses tests. The toughest question of all: to pivot or proceed. Founders love their visions and investors want action, but a pivot is honourable (and can save the business) when the market tells you you're wrong. The positioning statement. We will conclude with a discussion of how to build a founding team for your new venture.

Session 4: First BMC & VPC Presentations

Group presentations of assignment #2: initial product or service idea and Business Model Canvases.

Session 5: Sources of Funding, Valuations & Term Sheets

What are the funding options for each stage of the enterprise? The rounds, types of security and the rights of each. Venture valuation methodologies. Term sheets – what are they and what's in them.

Assignment #3 (take home): Writing a term sheet.

Session 6: Second BMC & VPC Presentations

Group presentations of assignment #3.

Session 7: Intrapreneurship

For those students who are working in an established business, launching a new initiative inside your organization may be the most immediate situation in which you will apply lessons learned in this course.

Session 8: Intrapreneurship in Action (guest speaker); Capitalization Tables

Guest speaker: Divesh Sisodraker, President and Chief Product Officer, Vision Critical

Divesh leads product management, product marketing and user experience across Vision Critical to drive product innovation and deliver best-in-class customer experiences. With 17 years of software executive leadership experience, he most recently served as the executive vice president and chief product officer for ScribbleLive, a leading content marketing platform. Prior to that, he was CEO and Chairman of coincidenceLabs, a software consultancy, and held executive roles at Taleo Corporation and Pivotal Corporation. Divish was also part of the executive leadership team at Vanedge Capital, a leading local venture capital firm, for two years. He holds a degree in finance from Simon Fraser University.

Part 2: Introduction to the Cap Table. In class assignment #4: Building a Cap Table based on a real-life case study.

Session 9: Final BMC and MVP Presentations

After three rounds of customer discovery and potential minor or major pivots, each group will present your final business model and value proposition canvases, your minimum viable product and recommended next steps.

Session 10: Scaling the business; Exits and disasters

Scaling the business. Discussion of readings. Forms of exits.. the good, bad and ugly. The pitch deck.

Session 11: Venture Pitches

The grand finale! It's time for group presentations where you put it all together and pitch your idea. Conclusions and wrap up.



Reading Schedule

The following readings should be completed *before* the session:

Session 2

Blank, S. Why Lean Startup Changes Everything. (2013) *Harvard Business Review*.

Steve Blank and Bob Dorf, *The Startup Owner's Manual*. (2012) Chapters 1-4.

Business Model Canvas templates & video: <http://www.businessmodelgeneration.com/canvas/bmc>

Session 3

Steve Blank and Bob Dorf, *The Startup Owner's Manual*. (2012) Chapters 5-8 (can skip pp 98-111) and Chapter 12.

Recruiting a founding team: <http://www.techrepublic.com/article/startup-hiring-how-to-build-your-a-team/>

Instructor's materials will be posted in Canvas.

Session 4

None.

Session 5

Instructor's materials will be posted in Canvas.

What's in a term sheet: The world's most irritating not-quite-contract:

http://web.archive.org/web/20130303042811/http://www.foundersfund.com/uploads/term_sheet_explained.pdf

Term sheet basics at <https://www.marsdd.com/mars-library/understanding-the-term-sheet/>

Session 6

None.

Session 7

Video: Creating new products in an existing enterprise: New product creation at Amazon; in particular focus on video segment from 2mins:13secs-25:00mins

<https://www.youtube.com/watch?v=8MxJhno6lr4&feature=youtu.be>

Video: Creating a completely new line of business: Data V at Bsquare Corporation

<https://www.youtube.com/watch?v=rVkgMKYckOg&index=1&list=PLC6EMtQnrsvJo0l-Yw9VQPPgFSZghYN3z>

Building Breakthrough Businesses Within Established Organizations (2005) *Harvard Business Review*.

Session 8

Captable basics at <https://captable.io>

Session 9

None.

Session 10

Steve Blank and Bob Dorf, *The Startup Owner's Manual*. (2012) Chapters 9 (focus on pp. 292-295, 312-314, 338-343, 352-355) & 11 (you can skip ch.10 and read some other time).

Instructor's materials will be posted in Canvas.



Graduate Course Change

Attach a separate document if more space is required.

Course Subject/Number	BUS 643	Units	2	Effective Term and Year	Spring 2019
Course Title Entrepreneurship					
Rationale for Change: Currently, BUS 643 (EMBA Entrepreneurship) and BUS 783 (MOT Entrepreneurship) are listed as equivalencies. With BUS 783 moving from 2 units to 4 units, and BUS 643 remaining as 2 units, these courses should no longer stand as equivalent.					

Proposed Changes (Check all that apply)

Course number
 Units*
 Title
 Description
 Prerequisite
 Other Equivalency

Complete only the fields to be changed

FROM	TO
Course Subject/Number	Course Subject/Number
Units	Units*
Course Title	Course Title (max 100 characters)
Course Short Title	Course Short Title (max 30 characters)
Description	Description
Prerequisite	Prerequisite
Other Equivalency: BUS 783	Other

* Program requirements may need to be revised when course units are changed. Please review the calendar and submit any relevant program revisions resulting from this course change.

REMINDER: All course changes must be identified on a cover memo and confirmed as approved when submitted to FGSC and SGSC.

CONTACT PERSON

Department / School / Program Beedie Grad Programs	Contact name Lesley McKay	Contact email buscoord@sfu.ca
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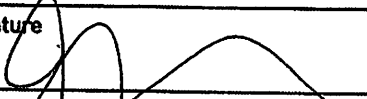
DEPARTMENTAL APPROVAL

Department Graduate Program Committee	Signature	Date
Department Chair	Signature	Date

FACULTY APPROVAL

Faculty Graduate Studies Committee (FGSC) Andrew Gemino	Signature 	Date May 29, 2018
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SENATE GRADUATE STUDIES COMMITTEE APPROVAL

Senate Graduate Studies Committee (SGSC) Jeff Derksen	Signature 	Date June 21 2018
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ADMINISTRATIVE SECTION (for DGS office only)

Course Attribute: _____
 Course Attribute Value: _____
 Instruction Mode: _____
 Attendance Type: _____

If different from regular units:
 Academic Progress Units: _____
 Financial Aid Progress Units: _____



School of Communication
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MEMORANDUM

ATTENTION	Stuart Poyntz, Chair Faculty of Communication, Art & Technology Undergraduate Curriculum Committee	DATE	7 May 2018
FROM	Kirsten McAllister, Chair School of Communication Graduate Program Committee	RE	Calendar changes re: a change to the M.A program, a new course and a course change

At its meeting of 14 March 2018, the School of Communication's Graduate Program Committee approved the following new course, course change and program changes which have been approved by the School of Communication which after receiving FGSC's approval will then be forwarded to the Faculty Graduate Studies Committee for approval.

These curriculum items should be effective for Spring 2019. Please include it on the next FGSC agenda.

The changes are as follows:

~~CMNS 893 - although a project option has always been offered, this will allow a clear distinction between projects examined like a thesis and those just examined by two readers (which as per the 2015 General Graduate Regulations require the student takes one more course than students whose thesis or project is examined by an external examiner).~~

CMNS 896 - course change (change to the number of credits) to make all the students complete with close to the same number of units

~~CMNS MA - To update and revise the calendar format as requested by the Dean of Graduate Studies' Office: removal of the research areas and change to the number of units students who complete non thesis based programs to align with GGR 1.7.3.~~

~~CMNS PhD - To update and revise the calendar format as requested by the Dean of Graduate Studies' Office: removal of the research areas.~~

Would you please place these items on the agenda of the next meeting of the FCAT Graduate Committee?

Thank you,

Kirsten McAllister
Chair, School of Communication
Graduate Program Committee



Graduate Course Change

Attach a separate document if more space is required.

Course Subject/Number	CMNS 896	Units	Effective Term and Year	Spring 2019
Course Title	MA Extended Essays			
Rationale for Change:	To ensure consistency in credits assigned to MA capstones within the School of Communication.			

Proposed Changes (Check all that apply)

Course number
 Units*
 Title
 Description
 Prerequisite
 Other _____

Complete only the fields to be changed

FROM	TO
Course Subject/Number	Course Subject/Number
Units 10	Units* 6
Course Title	Course Title (max 100 characters)
Course Short Title	Course Short Title (max 30 characters)
Description	Description
Prerequisite	Prerequisite CMNS 801 and one of CMNS 800, 802, or 804.
Other	Other

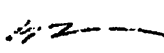

* Program requirements may need to be revised when course units are changed. Please review the calendar and submit any relevant program revisions resulting from this course change.

REMINDER: All course changes must be identified on a cover memo and confirmed as approved when submitted to FGSC and SGSC.


CONTACT PERSON

Department / School / Program CMNS	Contact name Kirsten McAllister	Contact email cmngrchr@sfu.ca
---------------------------------------	------------------------------------	----------------------------------

DEPARTMENTAL APPROVAL

Department Graduate Program Committee Kirsten McAllister	Signature 	Date May 31, 2018
Department Chair Peter Chow-White	Signature 	Date June 4, 2018

FACULTY APPROVAL

Faculty Graduate Studies Committee (FGSC) Stuart Poyntz	Signature 	Date June 4, 2018
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SENATE GRADUATE STUDIES COMMITTEE APPROVAL

Senate Graduate Studies Committee (SGSC) Jeff Derksen	Signature 	Date June 21 2018
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ADMINISTRATIVE SECTION (for DOS office only)
 Course Attribute: GCAP
 Course Attribute Value: EXTENSIVE
 Instruction Mode: _____
 Attendance Type: _____

If different from regular units:
 Academic Progress Units: _____
 Financial Aid Progress Units: _____



MEMO

Faculty of Science

ATTENTION Jeff Derksen, Dean, Graduate Studies

FROM Peter Ruben, Associate Dean, Research and Graduate Studies, Faculty of Science

RE Minor Course and Calendar Changes, Department of Chemistry

DATE May 15, 2018

TIME 10:41 AM

The attached includes minor course and calendar changes, including a course ~~title change and a course deletion~~, for the graduate program in the Department of Chemistry. PLA 5/22/18

These changes are approved by me on behalf the Faculty of Science Graduate Studies Committee. Please add them to the agenda for the next SGSC meeting.

P. Ruben



DEPARTMENT OF CHEMISTRY

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8888 University Drive, Burnaby,
BC
Canada V5A 1S6

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FAX 778.782.3765

www.sfu.ca/chemistry

MEMORANDUM

ATTENTION Faculty of Science Graduate Studies Committee
DATE April 26, 2018
FROM Michael Eikerling
PAGES 1/1
RE: Graduate Course Change

The following graduate course change has been approved by the Department of Chemistry and is forwarded to the Faculty of Science Graduate Studies Committee for approval. Please include this course change on the next SCGS agenda.

Department of Chemistry

Graduate Course Change: CHEM 754, ~~CHEM 833~~

DVB

Dr. Michael Eikerling
Graduate Chair
Department of Chemistry

Enclose

Graduate Course Change

Attach a separate document if more space is required.

Course Subject/Number CHEM-754	Units 3	Effective Term and Year 4187 - Spring 2019 DVB
Course Title Carbohydrate Chemistry		
Rationale for Change: The science of sugars and their biological importance is undergoing a renaissance and covers many different science disciplines		

Proposed Changes (Check all that apply)

Course number
 Units*
 Title
 Description
 Prerequisite
 Other _____

Complete only the fields to be changed

FROM	TO
Course Subject/Number	Course Subject/Number
Units	Units*
Course Title Carbohydrate Chemistry	Course Title (max 100 characters) Advanced Glycoscience
Course Short Title Carbohydrate Chemistry	Course Short Title (max 30 characters) Advanced Glycoscience
Description A detailed treatment of structure and reactions of monosaccharides, the use of carbohydrates as chiral templates in organic synthesis, advances in glycoside synthesis, the occurrence, chemistry, and conformational analysis of complex carbohydrates and their role in biological systems.	Description A modern treatment of the structures and the biological generation of these critical oligomers. Sub-topics include: the development of carbohydrate-based chemical biology probes, advances in glycoside synthesis, the complex interactions of carbohydrates and the corresponding biological receptors.
Prerequisite	Prerequisite
Other	Other

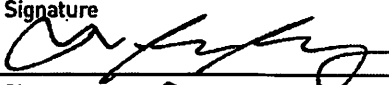
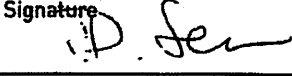
* Program requirements may need to be revised when course units are changed. Please review the calendar and submit any relevant program revisions resulting from this course change.

REMINDER: All course changes must be identified on a cover memo and confirmed as approved when submitted to FGSC and SGSC.

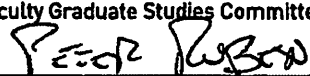
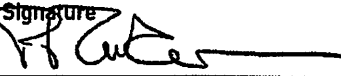
CONTACT PERSON

Department / School / Program Chemistry	Contact name Nathalie Fournier	Contact email chemgdin@sfu.ca
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DEPARTMENTAL APPROVAL

Department Graduate Program Committee Michael Eikerling	Signature 	Date Apr. 24, 2018
Department Chair Dipankar Sen	Signature 	Date April 24, 2018

FACULTY APPROVAL

Faculty Graduate Studies Committee (FGSC) 	Signature 	Date 1 May 2018
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SENATE GRADUATE STUDIES COMMITTEE APPROVAL

Senate Graduate Studies Committee (SGSC) Jeff Derksen	Signature 	Date June 21 2018
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ADMINISTRATIVE SECTION (for DGS office only)

Course Attribute: _____
 Course Attribute Value: _____
 Instruction Mode: _____
 Attendance Type: _____

If different from regular units:
 Academic Progress Units: _____
 Financial Aid Progress Units: _____



MEMO

Faculty of Science

ATTENTION Jeff Derksen, Dean, Graduate Studies

FROM Peter Ruben, Associate Dean, Research and Graduate
Studies, Faculty of Science

RE Minor Course Change, Department of Statistics and Actuarial
Science

DATE May 15, 2018

TIME 10:54
AM

The attached includes minor course change, including a course title change and description, for the graduate program in the Department of Statistics and Actuarial Science.

These changes are approved by me on behalf the Faculty of Science Graduate Studies Committee. Please add them to the agenda for the next SGSC meeting.

P. Ruben



Faculty of Science

Department of
Statistics & Actuarial Science

Phone: 778-782-3803
Fax: 778-782-4368
Web: <http://www.stat.sfu.ca>

Mailing Address
Room SC K10545
8888 University Drive,
Burnaby BC V5A 1S6
Canada

May 12, 2018

To: Peter Ruben
Faculty of Science Graduate Studies Committee
cc: Tom Loughin

Re: Course changes (STAT 840)

I enclose a course change proposal form for STAT840 – Statistical Genetics, an elective course in our core Statistics graduate program. The changes involve updating the course description to reflect the expanded expertise represented in our department over the last 10 years. The department has discussed and approved these proposed changes.

The proposals are to be presented to the Faculty of Science Graduate Curriculum Committee for consideration of adoption.

A handwritten signature in black ink, appearing to read "Jinko Graham".

Jinko Graham
Graduate Chair, Stats/ActSci



Graduate Course Change

Attach a separate document if more space is required.

Course Subject/Number	STAT 840	Units	4	Effective Term and Year	Spring 2019
Course Title	Statistical Genetics				
Rationale for Change:	Update topics to better align with the expertise of faculty in the department.				

Proposed Changes (Check all that apply)

Course number
 Units*
 Title
 Description
 Prerequisite
 Other _____

Complete only the fields to be changed

FROM	TO
Course Subject/Number	Course Subject/Number
Units	Units*
Course Title Statistical Genetics	Course Title (max 100 characters) Statistical Genetics and Genomics
Course Short Title Statistical Genetics	Stat Genetics
Description An introduction to the models and methods of Statistical Genetics. A basis for further statistical studies, whether in quantitative genetics, human and medical genetics, population and evolutionary genetics, or computational molecular genetics, is established. Specific topics can include statistical models for Mendelian genetic traits, population genetics: Hardy-Weinberg equilibrium, allelic variation, population subdivision, co-ancestry coefficients, the coalescent, pedigree relationships and gene identity, meiosis and recombination linkage detection and an introduction to linkage analysis.	Description A mixed lecture and seminar-based course to introduce Statistics graduate students to statistical models and methods in Genetics and Genomics. Topics may include applications of statistical learning in: Quantitative Genetics, Population and Evolutionary Genetics, Computational Molecular Genetics, Human Genomics and Genetic Epidemiology.
Prerequisite	Prerequisite
Other	Other

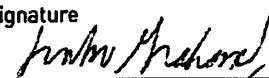
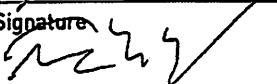
* Program requirements may need to be revised when course units are changed. Please review the calendar and submit any relevant program revisions resulting from this course change.

REMINDER: All course changes must be identified on a cover memo and confirmed as approved when submitted to FGSC and SGSC.

CONTACT PERSON

Department / School / Program Statistics and Actuarial Science	Contact name Jinko Graham	Contact email jgraham@sfu.ca
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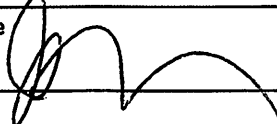
DEPARTMENTAL APPROVAL

Department Graduate Program Committee Jinko Graham	Signature 	Date May 24, 2018
Department Chair Tom Loughin	Signature 	Date 24 May 18

FACULTY APPROVAL

Faculty Graduate Studies Committee (FGSC) Peter Ruben	Signature Peter Ruben <small>Digitally signed by Peter Ruben DN: cn=Peter Ruben, o=sfu, email=prubens@sfu.ca, c=CA Date: 2018.05.25 18:52:31 -0700</small>	Date 25 May 2018
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SENATE GRADUATE STUDIES COMMITTEE APPROVAL

Senate Graduate Studies Committee (SGSC) Jeff Derksen	Signature 	Date June 21 2018
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ADMINISTRATIVE SECTION (for DGS office only) Course Attribute: _____ Course Attribute Value: _____ Instruction Mode: _____ Attendance Type: _____	If different from regular units: Academic Progress Units: _____ Financial Aid Progress Units: _____
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Simon Fraser University
Maggie Benston Centre 1100
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Burnaby, BC V5A 1S6

TEL 778.782.3042
FAX 778.782.3080

gradstudies@sfu.ca
www.sfu.ca/grad

MEMORANDUM

ATTENTION Jeff Derksen, DATE May 17, 2018
Chair of Senate Graduate Studies
Committee (SGSC)
FROM Ed Park
Graduate Chair of Individualized
Interdisciplinary Studies
RE: Program Change, Course Change INS 899



Individualized Interdisciplinary Studies is an approved program under GGR 1.3.5; however, the program requirements have never appeared in the calendar. The MA, MSc and PhD calendar entries are new and are to be added to the University calendar for clarity.

The following calendar entries and a course change have been approved by Ed Park, Graduate Program Chair of Individualized Interdisciplinary Studies, and are forwarded to the Senate Graduate Studies Committee for approval. These curriculum items should be effective for **Spring 2019**.

Please include these items on the next SGSC agenda:

- Course Change (units): INS 899
- ~~New Calendar Entry: Individualized Interdisciplinary Studies MA~~
- ~~New Calendar Entry: Individualized Interdisciplinary Studies MSc~~
- ~~New Calendar Entry: Individualized Interdisciplinary Studies MSc~~
- ~~New Calendar Entry: Individualized Interdisciplinary Studies PhD~~



Graduate Course Change

Attach a separate document if more space is required.

Course Subject/Number	INS 899	Units	6	Effective Term and Year	1191
Course Title	PhD Thesis				
Rationale for Change:	To match the number of units assigned to a Master's Thesis.				

Proposed Changes (Check all that apply)

Course number
 Units*
 Title
 Description
 Prerequisite
 Other _____

Complete only the fields to be changed

FROM	TO
Course Subject/Number	Course Subject/Number
Units 6	Units* 18
Course Title	Course Title (max 100 characters)
Course Short Title	Course Short Title (max 30 characters)
Description	Description
Prerequisite	Prerequisite
Other	Other

* Program requirements may need to be revised when course units are changed. Please review the calendar and submit any relevant program revisions resulting from this course change.

REMINDER: All course changes must be identified on a cover memo and confirmed as approved when submitted to FGSC and SGSC.

CONTACT PERSON

Department / School / Program Individualized Interdisciplinary Stud.	Contact name Ed Park	Contact email ed_park@sfu.ca
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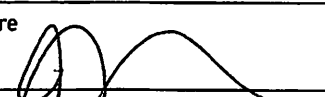
DEPARTMENTAL APPROVAL

Department Graduate Program Committee	Signature	Date
Department Chair	Signature	Date

FACULTY APPROVAL

Faculty Graduate Studies Committee (FGSC) Dr. Ed. Park	Signature 	Date May 17, 2018
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SENATE GRADUATE STUDIES COMMITTEE APPROVAL

Senate Graduate Studies Committee (SGSC) Jeff Derksen	Signature 	Date June 21 2018
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ADMINISTRATIVE SECTION (for DGS office only)

Course Attribute: GCAP
 Course Attribute Value: THESIS
 Instruction Mode: _____
 Attendance Type: _____

If different from regular units:
 Academic Progress Units: 6
 Financial Aid Progress Units: 6