

OFFICE OF THE ASSOCIATE VICE-PRESIDENT, ACADEMIC

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MEMORANDUM

ATTENTION	Senate
FROM	Wade Parkhouse, Chair
	Senate Committee on
. X	Undergraduate Studies
RE:	Course Changes (SCUS 18-51)

DATE

September 14, 2018 1/2

For information:

Acting under delegated authority at its meeting of September 13, 2018 SCUS approved the following curriculum revisions effective Summer 2019.

a. Faculty of Applied Sciences

1. School of Mechatronic Systems Engineering

- (i) Description change for MSE 211
- (ii) Prerequisite change for MSE 220, 312, 410, 411 and 450
- (iii) Title change for MSE 425

b. Beedie School of Business

(i) Description change for BUS 425

(ii) Prerequisite change for BUS 217W, 345, 360W, 362, 401, 437, 439, 440, 445, 470

c. Faculty of Communication, Art and Technology

1. School of Communication

(i) Description change for CMNS 496

2. School of Interactive Arts and Technology

(i) Description change for IAT 375

d. Faculty of Education

(i) Prerequisite change for EDUC 382 and 441

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e. Faculty of Health Sciences

(i) Equivalent Statement change for HSCI 460 (ii) Description change for HSCI 452

f. Faculty of Science

1. Department of Biomedical Physiology and Kinesiology

(i) Prerequisite change for BPK 307 (Spring 2019)

2. Department of Molecular Biology and Biochemistry

(i) Prerequisite change for MBB 302-B(s) (Fall 2019)(ii) Prerequisite change for MBB 342 and 432

3. Department of Statistics and Actuarial Science

(i) Prerequisite change for STAT 430 (Fall 2019)

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SCUS 18-51a	SCI	JS	18	-51	а
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SFU	UNDERGRADUATE				-		Page 1 o
COURSE SU	J BJECT MS	SE NUMBER	211	TITLE	Comput Enginee		Method for
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Fall, Spring, Summer and year (please enter in textbox)

SUMMER 2019





RATIONALE (must be included)

Page 2 of 2

This is to correct the typo error for the total number of units allowed to repeat. To be aligned with the University policy on the number of times a student may repeat a course which is one (1).

SFU	SENATE COMM UNDERGRADU	ATE STUDIES	220	COURSE MODIFICATION FORM Page 1 of 2	
COURSE S		MSE NUMBER	220	0 TITLE Engineering Materials	
TYPE OF C	HANGES. Plo	ease type 'X' for the app	oropria	iate revision(s):	
Course number		Units		Prerequisite 🛛	
Title		Description		Equivalent 🗆 Statement	
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Prerequisite: CHEM 120 or 121; PHYS <u>140</u> 141 or <u>120</u> 121. Students with credit for ENSC 231 or ENSC 330 may not take MSE 220 for further credit.

specific course components if changing equivalent statement(s).

EFFECTIVE TERM AND YEAR FOR CHANGES

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



COURSE MODIFICATION FORM

Page 2 of 2

RATIONALE (must be included)

Typo is corrected.

COURSE S	UBJECT M	SE NUMBER	312	TITLE Mechatronics Design II
TYPE OF CI	HANGES. Plea	se type 'X' for the ap	propriate	revision(s):
Course number		Units		Prerequisite 🛛
Title		Description		Equivalent 🗆 Statement
ndicate add llows, drag xpand. Plea <u>pecific cou</u> Prerequis 381). MSE	led or new tex the endpoint ase review the <u>rse componen</u> ite: MSE 110 (320 and MSE	t using <u>underline</u> . If of the text box to ma e "Equivalency staten <u>ts</u> if changing equiv or ENSC 182), MSE 3	you need ake it bigg nents" sec alent stat 320 (or EN oncurrent	changed text using strike through , to enter more text than the box er, as it will not automatically ction under <u>Information about</u> ement(s). HSC 382), MSE 380 (or ENSC cly. Students with credit for

EFFECTIVE TERM AND YEAR FOR CHANGES

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



COURSE MODIFICATION FORM

Page 2 of 2

RATIONALE (must be included)

MSE 320 and MSE 380 are not offered in the same semester.

COURSE S		SE NUMBER	410	TITLE Capstone Design Technica Project I
TYPE OF CI	HANGES. Plea	se type 'X' for the ap	propriate	e revision(s):
Course number		Units		Prerequisite 🛛
Title		Description		Equivalent 🗆 Statement
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ndicate add allows, drag expand. Ple pecific cou Prerequis 394). Com <u>curriculur</u> <u>393/394)</u>	ded or new tex g the endpoint ase review the rse componen ite: 100 units pletion of at l m courses and . Must not be t	at using <u>underline</u> . If of the text box to ma e "Equivalency staten ats if changing equiva- and completion of two east 24 credit units f completion of two c caken concurrently w	you need ake it bigg nents" sec alent state vo co-op t rom the u o-op term vith MSE 4	I to enter more text than the box ger, as it will not automatically ection under <u>Information about</u> tement(s). terms (MSE 293/294 and MSE upper division list of MSE ns (MSE 293/294 and MSE 493/MSE 494. Students with
ndicate add allows, drag expand. Ple pecific cou Prerequis 394). Com <u>curriculur</u> <u>393/394)</u>	ded or new tex g the endpoint ase review the rse componen ite: 100 units pletion of at l m courses and . Must not be t	t using <u>underline</u> . If of the text box to ma e "Equivalency statem ats if changing equiva- and completion of two east 24 credit units f completion of two c	you need ake it bigg nents" sec alent state vo co-op t rom the u o-op term vith MSE 4	I to enter more text than the box ger, as it will not automatically ection under <u>Information about</u> tement(s). terms (MSE 293/294 and MSE upper division list of MSE ns (MSE 293/294 and MSE 493/MSE 494. Students with

EFFECTIVE TERM AND YEAR FOR CHANGES Fall, Spring, Summer and year (please enter in textbox)

Sümmer 2019



COURSE MODIFICATION FORM

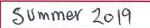
Page 2 of 2

RATIONALE (must be included)

The prerequisite list is refined to ensure that students have completed sufficient number of course before taking Capstone project course. Also, students must not concurrently take this course with the co-op course.

COURSE SU	JBJECT	MSE NUMBER	411	TITLE	Capstone Design Technical Project II
TYPE OF CH	IANGES. 1	Please type 'X' for the ap	propriate r	evision(s):	
Course number		Units		Prere	equisite 🖂
Title		Description		•	ivalent 🗆 tement
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EFFECTIVE TERM AND YEAR FOR CHANGES Fall, Spring, Summer and year (please enter in textbox)





COURSE MODIFICATION FORM

Page 2 of 2

RATIONALE (must be included)

The additional requirement is to ensure that students do not register concurrently for a coop and MSE 411.

		E STUDIES		Page
COURSE SU	BJECT	SE NUMBER	450	TITLE Real-Time and Embedde Control Systems
FYPE OF CH	ANGES. Pleas	se type 'X' for the ap	propriate re	evision(s):
Course		Units		Prerequisite 🖂
number				

indicate added or new text using <u>underline</u>. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under <u>Information about</u> <u>specific course components</u> if changing equivalent statement(s).

Prerequisite: Completion of at least 90 units including MSE 352 and MSE 381 (or ENSC 383) and a minimum of 80 credits. Students who have taken, or are currently enrolled in ENSC 351 or ENSC 451 cannot take MSE 450 for further credit.

EFFECTIVE TERM AND YEAR FOR CHANGES Fall, Spring, Summer and year (please enter in textbox)





COURSE MODIFICATION FORM

Page 2 of 2

RATIONALE (must be included)

The segment "minimum of 80 credits" is redundant and we propose to remove it.

	SENATE COMMITT UNDERGRADUATE			COU	RSE MODIFICATION P	N FORM age 1 of 2
COURSE SU	IBJECT MS	E NUMBER	425	TITLE	Nano Manufacturing scale Devices	for Nano-
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TYPE OF CH	ANGES. Please	e type 'X' for the apj	propriate r	evision(s):		
TYPE OF CHA Course number	ANGES. Please	e type 'X' for the apj Units	propriate r		quisite 🗆	

WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using strike through, indicate added or new text using <u>underline</u>. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under <u>Information about</u> specific course components if changing equivalent statement(s).

Nano Manufacturing for Nano-scale Devices

EFFECTIVE TERM AND YEAR FOR CHANGES

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

SUMMEr 2019



COURSE MODIFICATION FORM

Page 2 of 2

RATIONALE (must be included)

The instructor of the course has requested to change the title of this course to reflect its actual content.

SCUS 18-51b

SFU	SENATE COMMI' UNDERGRADUA			COURSE MODIFICATION FORM Page 1 of 2
COURSE SU	и вјест В	US NUMBER	425	TITLE Co-op Practicum V
TYPE OF CH	ANGES. Plea	ase type 'X' for the ap	propriat	e revision(s):
Course number		Units		Prerequisite 🗆
Title		Description	\boxtimes	Equivalent 🗆 Statement
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specific course components if changing equivalent statement(s).

This is the fifth term of work experience for students in the Co-operative Education Program. It provides an opportunity to integrate theory and practice. This course is open only to co-op students. The co-op program co-ordinator must be contacted at the beginning of the term prior to enrollment for this course. Units for this course do not count towards the units required for an SFU degree. <u>This course may be repeated for credit.</u>

EFFECTIVE TERM AND YEAR FOR CHANGES

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



COURSE MODIFICATION FORM

RATIONALE (must be included)

Page 2 of 2

Students sometimes complete additional Co-op work terms and there is currently no way to indicate this on the transcript using a 400-level course. The 400-level course indicates that it was an additional (6th) Co-op completed later in the degree program.

COURSE SU	BJECT	BUS NUMBER	217W	TITLE Critical Thinking in Bus	sines
TYPE OF CH	ANGES. P	lease type 'X' for the ap	propriate re	vision(s):	
Course number		Units		Prerequisite 🛛	
Title		Description		Equivalent 🗆 Statement	

allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under <u>Information about</u> <u>specific course components</u> if changing equivalent statement(s).

Examine and review today's global economy through critical analysis of differing perspectives. Develop and improve critical thinking and communication skills appropriate to the business environment. Prerequisite: BUS 201 and 15 units; OR 45 units and corequisite: BUS 202; OR approved Business Administration joint major, joint honours, or double degrees students with 45 units; OR Data Science majors with 15 units. Writing.

EFFECTIVE TERM AND YEAR FOR CHANGES

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





RATIONALE (must be included)

Page 2 of 2

When the Data Science program was created, we discussed course access and prerequisite waivers for a number of business courses for their students, but these were not updated in the calendar. We are now adding these adjusted prerequisites to the calendar to provide clearer messaging for students.

Some edits have been made for consistency with other business course prerequisites (removing the word "approved").

COURSE SU	BJECT BL	IS NUMBER	345	TITLE Marketing Research
TYPE OF CH	ANGES. Pleas	se type 'X' for the ap	propriate	revision(s):
Course number		Units		Prerequisite 🛛
Title		Description		Equivalent 🗆 Statement
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EFFECTIVE TERM AND YEAR FOR CHANGES

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



COURSE MODIFICATION FORM

Page 2 of 2

RATIONALE (must be included)

When the Data Science program was created, we discussed course access and prerequisite waivers for a number of business courses for their students, but these were not updated in the calendar. We are now adding these adjusted prerequisites to the calendar to provide clearer messaging for students.

	SENATE COMMITT UNDERGRADUATE			COURSE M	ODIFICATION FORM Page 1 of 2
COURSE SU	BJECT BU	IS NUMBER	360W	TITLE Busines	ss Communication
TYPE OF CH	ANGES. Pleas	e type 'X' for the ap	propriate re	evision(s):	
Course number		Units		Prerequisite	\boxtimes
Title		Description		Equivalent Statement	

WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using strike through, indicate added or new text using <u>underline</u>. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under <u>Information about</u> specific course components if changing equivalent statement(s).

This course is designed to assist students to improve their written and oral communication skills in business settings. The theory and practice of business communication will be presented. Topics include analysis of communication problems, message character, message monitoring, message media. Exercises in individual and group messages and presentations will be conducted. Prerequisite: This course is only open to students admitted prior to Fall 2014 to the Business Administration major, honours, or second degree program and who have 45 units, OR to students admitted Fall 2014 - Summer 2017 to the Business Administration major, honours, or second degree program and who have 45 units and BUS 130 or 201 or 202 or 301, OR to students admitted Fall 2017 - onwards to the Business Administration major, honours, or second degree program and who have 45 units and BUS 130 or 201 or 202 or 301 and BUS 217W, OR to approved Business Administration joint major, joint honours, or double degree students with 45 units. OR to approved Management Systems Science or Actuarial Science majors with 45 units OR to Data Science majors with BUS 217W and 45 units. Students who have taken BUS 360 may not take this course for further credit. Writing.

EFFECTIVE TERM AND YEAR FOR CHANGES Fall, Spring, Summer and year (please enter in textbox)





RATIONALE (must be included)

Page 2 of 2

When the Data Science program was created, we discussed course access and prerequisite waivers for a number of business courses for their students, but these were not updated in the calendar. We are now adding these adjusted prerequisites to the calendar to provide clearer messaging for students.

Some edits have been made for consistency with other business course prerequisites (removing the word "approved").

There is also a typo letter (a missing "s") that should be added.

COURSE S	UNDERGRADUATE		362	Page 1 c
TYPE OF CH	IANGES. Please	type 'X' for the ap	propriate	revision(s):
Course number		Units		Prerequisite 🖂
Title		Description		Equivalent 🗆 Statement
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EFFECTIVE TERM AND YEAR FOR CHANGES

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

Summer 2019

credit.



COURSE MODIFICATION FORM

Page 2 of 2

RATIONALE (must be included)

When the Data Science program was created, we discussed course access and prerequisite waivers for a number of business courses for their students, but these were not updated in the calendar. We are now adding these adjusted prerequisites to the calendar to provide clearer messaging for students.

COURSE SU	J BJECT BU	JS NUMBER	401	TITLE Developing Organizational Opportunities
FYPE OF CH	ANGES. Pleas	se type 'X' for the app	propriate re	vision(s):
Course number		Units		Prerequisite 🛛
Title		Description		Equivalent 🗆 Statement
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Fall, Spring, Summer and year (please enter in textbox)



COURSE MODIFICATION FORM

RATIONALE (must be included)

Page 2 of 2

Students who take BUS 254 & BUS 312 before they get into the Business Minor receive a waiver for BUS 311 (and can take this pair of courses in place of BUS 311), so we would like to recognize this possibility in the BUS 401 prerequisite. This will also make it clear that students need both of BUS 254 & 312 to replace BUS 311 (not just one or the other).

We have also capitalized "BUS" in the prerequisites to be consistent in the calendar (it is capitalized in other course prereqs).

Item 4c v

SFU course su	UNDERGRADU		437 TITLE	Decision Analysis in	Page 1 of 3
TYPE OF CH	ANGES. Plo	ease type 'X' for the appro	opriate revision(s):		
Course number		Units 🗌	D Prere	quisite 🛛	
Title		Description		ivalent 🗆 tement	
indicate adde allows, drag t	ed or new t the endpoin	ION EDITS. Indicate delet text using <u>underline</u> . If you nt of the text box to make	ted or changed text u u need to enter more it bigger, as it will n	using strike through , e text than the box ot automatically	
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EFFECTIVE TERM AND YEAR FOR CHANGES

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



RATIONALE (must be included)

COURSE MODIFICATION FORM

Page 2 of 2

When the Data Science program was created, we discussed course access and prerequisite waivers for a number of business courses for their students, but these were not updated in the calendar. We are now adding these adjusted prerequisites to the calendar to provide clearer messaging for students.

SFU course s	SENATE COMMITT UNDERGRADUATE UBJECT BU	STUDIES	439	COURSE MODIFICATION Page TITLE Analytics Project
TYPE OF CI	HANGES. Pleas	e type 'X' for the app	propriate re	vision(s):
Course number		Units		Prerequisite 🛛
Title		Description		Equivalent 🗆 Statement
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EFFECTIVE TERM AND YEAR FOR CHANGES

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

COURSE MODIFICATION FORM

Page 2 of 2



SENATE COMMITTEE ON UNDERGRADUATE STUDIES

RATIONALE (must be included)

When the Data Science program was created, we discussed course access and prerequisite waivers for a number of business courses for their students, but these were not updated in the calendar. We are now adding these adjusted prerequisites to the calendar to provide clearer messaging for students.

Other changes are to provide consistency among prerequisite language on Business courses

COURSE S		BUS NUMBER	440	TITLE Simulation in Management Decision-making
FYPE OF CH	IANGES. Plea	se type 'X' for the app	propriate r	evision(s):
Course number		Units		Prerequisite 🛛
Title		Description		Equivalent 🗆
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WORDING/ ndicate add allows, drag expand. Plea pecific cour Developm manageme simulatior assessmer	led or new te: the endpoint ase review the rse component ent and use o ent decisions. I. Issues relat of input dat	ON EDITS. Indicate deat using <u>underline</u> . If states of the text box to make "Equivalency statements if changing equivation models at Hands on use of busied to design and validates, and the interpretation	you need to he it bigge nents" sect alent stater as an aid in iness relate dation of si tion and us	anged text using strike through , o enter more text than the box r, as it will not automatically on under <u>Information about</u> nent(s). making complex ed tools for computer

EFFECTIVE TERM AND YEAR FOR CHANGES

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



COURSE MODIFICATION FORM

RATIONALE (must be included)

Page 2 of 2

When the Data Science program was created, we discussed course access and prerequisite waivers for a number of business courses for their students, but these were not updated in the calendar. We are now adding these adjusted prerequisites to the calendar to provide clearer messaging for students.

SFU COURSE SU	SENATE COMMITTEE O UNDERGRADUATE STU UBJECT BUS	the second se	445	COURSE MODIFICA	Page 1 of 2			
TYPE OF CH	IANGES. Please ty	vpe 'X' for the ap	propriate rev	ision(s):				
Course number		Units		Prerequisite 🛛				
Title		Description		Equivalent 🗌 Statement				
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allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under Information about specific course components if changing equivalent statement(s). Exposes students to the art of using analytic tools from across the spectrum of data mining and modeling to provide powerful competitive advantage in business. Students will learn to recognize when a method should or should not be used, what data is required, and how to use the software tools. Areas covered include database marketing, geospatial marketing and fundamental strategic and tactical decisions such as segmentation, targeting and allocating resources to the marketing mix. Prerequisite: BUS 343, 336, 360W; 60 units; OR Data Science majors with BUS 343, 360W; and 60 units.								

EFFECTIVE TERM AND YEAR FOR CHANGES Fall, Spring, Summer and year (please enter in textbox)



COURSE MODIFICATION FORM

RATIONALE (must be included)

Page 2 of 2

When the Data Science program was created, we discussed course access and prerequisite waivers for a number of business courses for their students, but these were not updated in the calendar. We are now adding these adjusted prerequisites to the calendar to provide clearer messaging for students.

Item 4b

COURSE S	Nation of the local states	BUS	NUMBER		TITLE	Busine: Theory		cations of Gar
Course			X' for the app nits	propriate re		quisite	\boxtimes	
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indicate add allows, drag expand. Plea specific cour Game theo economic theory in s	ed or new the endp ase review rse compo ory is the s entities. T strategic c	v text using oint of the to v the "Equiva- onents if cha- systematic s 'his course i lecision mal-	underline. If y ext box to ma alency staten anging equiva tudy of the st ntroduces stu ting in a busin	you need to ke it bigger nents" section alent statem trategic inte udents to th ness setting	enter more , as it will n on under In nent(s). eractions be e basic con , Games wit	e text that not autom formation etween cepts of th increa	an the bo natically on about game using	DX .
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EFFECTIVE TERM AND YEAR FOR CHANGES

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

Summer 2019



SENATE COMMITTEE ON UNDERGRADUATE STUDIES

COURSE MODIFICATION FORM

RATIONALE (must be included)

Page 2 of 2

Students in Business programs may take either BUS 207 *or* ECON 201 for their degree requirements, and for the purposes of a Business program either of these courses may satisfy the prerequisites on Business courses.

SCUS 18-51c

COURSE SI	UBJECT CN	NUMBER	496	TITLE Commu	inication Practicum V
YPE OF CH	IANGES. Pleas	se type 'X' for the app	oropriate re	vision(s):	
Course number		Units		Prerequisite	
Title		Description	\boxtimes	Equivalent	
VORDING/ adicate adde llows, drag xpand. Plea ourse comp	ed or new text the endpoint se review the conents if chan	using <u>underline</u> . If yo of the text box to ma "Equivalency stateme nging equivalent state	ou need to ake it bigge ents" sectio ement(s).	Statement anged text using strik enter more text than r, as it will not autom n under <u>Information</u> a	e through , the box natically
VORDING/ adicate adde llows, drag xpand. Plea ourse comp An optio Commun towards t pass/fail	ed or new text the endpoint se review the <u>conents</u> if chan nal fifth term nication Co-op the units requ (P/F).	using <u>underline</u> . If yo of the text box to ma "Equivalency stateme oging equivalent state of work experience perative Education I	ou need to ake it bigge ents" sectio ement(s). for studer Program. U pree. Prerec	Statement anged text using strik enter more text than r, as it will not autom n under <u>Information</u> a	e through , the box natically about specific se do not count

SFU	SENATE COMMIT UNDERGRADUAT			COURSE MODIFICATION FC Page 1
COURSE S	UBJECT 14	AT NUMBER	375	TITLE Practicum V
TYPE OF CH	IANGES. Plea	ise type 'X' for the app	propriate re	vision(s):
Course number		Units		Prerequisite 🗆
Title		Description	\boxtimes	Equivalent 🗆 Statement
allows, drag expand. Plea	the endpoint ase review the	t of the text box to ma	ke it bigger nents" sectio	enter more text than the box as it will not automatically on under <u>Information about</u> ent(s).
Program. I	Jnits from th pass/fail. Pre	is course do not coun	t towards co	e SIAT Co-operative Education ompletion of an SFU degree. 0). <u>This course may be repeated</u>

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Summer 2019

RATIONALE (must be included)

In some instances, students may complete additional co-op work terms beyond the final course available.

SCUS 18-51d

COURSE SU	BJECT	UC NUMBER	382	TITLE Diversity in Education: Theories, Policies, Practi	ices
TYPE OF CH	IANGES. Pleas	se type 'X' for the ap	propriate i	revision(s):	
Course number		Units		Prerequisite X	
litle		Description		Equivalent 🗆 Statement	
ndicate add llows, drag xpand. Plea	ed or new tex the endpoint ase review the	t using <u>underline</u> . If of the text box to ma "Equivalency stater	you need t ake it bigge nents" sect	hanged text using strike through , to enter more text than the box er, as it will not automatically tion under <u>Information about</u>	
ndicate add llows, drag xpand. Plea <u>pecific cour</u> Prerequisi	ed or new tex the endpoint ase review the <u>rse componen</u>	t using <u>underline</u> . If of the text box to ma "Equivalency stater <u>ts</u> if changing equiv tudents who have re	you need t ake it bigge nents" sect alent state	to enter more text than the box er, as it will not automatically tion under <u>Information about</u>	
ndicate add llows, drag xpand. Plea <u>pecific cour</u> Prerequisi	ed or new tex the endpoint ase review the <u>se componen</u> te: 60 units. S	t using <u>underline</u> . If of the text box to ma "Equivalency stater <u>ts</u> if changing equiv tudents who have re	you need t ake it bigge nents" sect alent state	to enter more text than the box er, as it will not automatically ition under <u>Information about</u> ement(s).	
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Fall, Spring, Summer and year (please enter in textbox)

SUMMEr 2019

RATIONALE (must be included)

Educ 382 and Educ 441 are two distinct courses with different content. It does not make sense to prevent students from taking both.

SFU		OMMITTEE ON Aduate stud					ODIFICA	Page 1 of
COURSE SU	JBJECT	EDUC	NUMBER	441	TITLE	Multicult Educatio		Anti-racist
TYPE OF C	HANGES.	Please typ	be 'X' for the ap	propriate re	evision(s):			
Course number			Units		Prer	equisite	х	
Title			Description			uivalent atement		
allows, drag expand. Plea	led or ney the endr ase review	w text usin ooint of the w the "Equ	ing <u>underline</u> . If the text box to main tivalency statem changing equiva	ake it bigger nents" sectio	enter mor , as it will : on under l	e text than not autom	n the box atically	;h ,
allows, drag expand. Plea specific cou Prerequisi or EDUC 2	led or ney the endp ase review rse comp ite: EDUC 40 or ED	w text usin point of the w the "Equ <u>onents</u> if c 401/402 UC 250. St	ig <u>underline</u> . If text box to ma ivalency staten	you need to ake it bigger nents" section alent statem EDUC 403, o edit for EDU	enter mon c, as it will i on under <u>l</u> nent(s). or EDUC <u>10</u> C 382: Div	re text than not autom nformatio 00, or EDU ersity in	n the box atically <u>n about</u> C <u>230,</u>	, h ,
allows, drag expand. Plea specific cou Prerequisi or EDUC 2	led or ney the endp ase review rse comp ite: EDUC 40 or ED	w text usin point of the w the "Equ <u>onents</u> if c 401/402 UC 250. St	ng <u>underline</u> . If te text box to ma ivalency staten changing equivation or corequisite fundents with creation	you need to ake it bigger nents" section alent statem EDUC 403, o edit for EDU	enter mon c, as it will i on under <u>l</u> nent(s). or EDUC <u>10</u> C 382: Div	re text than not autom nformatio 00, or EDU ersity in	n the box atically <u>n about</u> C <u>230,</u>	,h ,
allows, drag expand. Plea specific cou Prerequisi or EDUC 2	led or ney the endp ase review rse comp ite: EDUC 40 or ED	w text usin point of the w the "Equ <u>onents</u> if c 401/402 UC 250. St	ng <u>underline</u> . If te text box to ma ivalency staten changing equivation or corequisite fundents with creation	you need to ake it bigger nents" section alent statem EDUC 403, o edit for EDU	enter mon c, as it will i on under <u>l</u> nent(s). or EDUC <u>10</u> C 382: Div	re text than not autom nformatio 00, or EDU ersity in	n the box atically <u>n about</u> C <u>230,</u>	,
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RATIONALE (must be included)

Educ 382 and Educ 441 are two distinct courses with different content. It does not make sense to prevent students from taking both.

	SENATE CON UNDERGRAD	IMITTEE ON UATE STUDIES		COURS	SE MODIFI	CATION FO Page	
COURSE SU	JBJECT	HSCI NUMBER	460	TITLE	Population a Advocacy	and Public He	ealth
ГҮРЕ OF CH	ANGES. P	Please type 'X' for the ap	propriate 1	revision(s):			
FYPE OF CH Course number	ANGES. P	Please type 'X' for the ap Units	propriate 1		quisite 🗆		

WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using strike through, indicate added or new text using <u>underline</u>. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under <u>Information about</u> specific course components if changing equivalent statement(s).

<u>Students with credit for HSCI 471 under the title "Special Topics: Public Health</u> <u>Advocacy" may not take this course for further credit.</u>

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Summer, 2019

SCUS 18-51e



COURSE MODIFICATION FORM

Page 2 of 2

RATIONALE (must be included)

The revision identifies preclusions for students who have taken prior editions of this course as a special topics.

	SENATE COMMITTEI JNDERGRADUATE S BJECT HSC	FUDIES	452	COURSE MO	ON FORM Page 1 of 2
TYPE OF CHA	ANGES. Please	type 'X' for the ap	propriate rev	vision(s):	
Course number		Units		Prerequisite	
Title		Description		Equivalent Statement	

WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using strike through, indicate added or new text using <u>underline</u>. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under <u>Information about</u> specific course components if changing equivalent statement(s).

This course may be repeated for additive credit.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Summer 2019



COURSE MODIFICATION FORM

Page 2 of 2

RATIONALE (must be included)

In some instances students may be completing additional co-op work terms beyond the final course available.

SFU	UNDERGRADUATI	E STUDIES			Page 1 of
COURSE SU	J BJECT BPH	K NUMBER 3	07 TITLE Huma	n Physiology I	111
TYPE OF C	HANGES. Pleas	se type 'X' for the appro	priate revision(s):		
Course number		Units [] Prerequis	ite 🛛	
Title		Description	Equivale Stateme		
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indicate add allows, drag expand. Ple <u>specific cou</u> <u>BPK 307</u> - A detaile gastroint	ded or new tex g the endpoint ase review the <u>rse componen</u> Human Physio d examination estinal, renal,	t using <u>underline</u> . If you of the text box to make "Equivalency statements if changing equivale ogy III (3) In of the physiology an endocrine, immune a	ed or changed text using a need to enter more text it bigger, as it will not au ts" section under <u>Inform</u> at statement(s).	than the box tomatically <u>ation about</u> he as. The	h ,
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indicate add allows, drag expand. Ple <u>specific cou</u> <u>BPK 307</u> - A detaile gastroint course fo cellular a <u>306</u> ; how <u>take this</u>	ded or new tex g the endpoint ase review the <u>rse componen</u> Human Physiol d examination estinal, renal, ocuses on inte nd systems le <u>rever, studen</u>	t using <u>underline</u> . If you of the text box to make "Equivalency statements if changing equivale ogy III (3) n of the physiology ar endocrine, immune a gration of physiologi vels. Prerequisite: <u>BPI</u> ts who took BPK 30 ors from outside BPK	ed or changed text using a need to enter more text it bigger, as it will not au its" section under <u>Inform</u> at statement(s). ad pathophysiology of t nd reproductive system cal mechanisms at the r <u>C 305</u> . Corequisite: <u>BPK</u> <u>5 prior to Fall 2017, ca</u> require <u>BPK 205</u> (or <u>BIS</u>	than the box tomatically ation about he he s. The nolecular,	h,

RATIONALE (must be included)

When BPK 307 was created the content of BPK 306 was also changed. The new version of BPK 306 (Fall 2017 onwards) was designed to be the prerequisite course for BPK 307. The old version of BPK 306 (prior to Fall 2017) is not adequate as a prerequisite for BPK 307 due the substantial content change.

COURSE SU	JBJECT	MBB	NUMBER	302-B(S)	TITLE	Energy: 1 (3)	From Cel	ls to Societ
TYPE OF C	HANGES.	Please typ	e 'X' for the ap	propriate re	vision(s):			
Course number			Units		Prer	equisite	х	
Title			Description			uivalent atement		
allows, drag expand. Ple <u>specific cou</u> Energy su industrial and clima	ded or new g the endp ase review rse composition stains life society. S te change	v text usin oint of the v the "Equ onents if c , from ear ocial issue will provi	TS. Indicate do g <u>underline</u> . If e text box to ma ivalency stater changing equiv ly cells, throug es, such as the de context for nd is required to	you need to ake it bigger, ments" section ralent statem h molecular search for ex understandi	enter mon , as it will i on under <u>I</u> nent(s). machines ctraterrest ng the scie	re text tha not autom nformatic and ecosy rial life, o ence of en	n the box natically on about ystems, to besity, do ergy. Enc	x o eath ergy
allows, drag expand. Ple <u>specific cou</u> Energy su industrial and clima <u>flow drov</u> <u>ecosystem</u> <u>explored</u> <u>students in</u> <u>Art and T</u>	ded or new g the endp ase review rse comp stains life society. S te change e the orig ns, the cap as a transp in the Facu echnology	v text usin oint of the v the "Equ onents if c , from ear ocial issue will provi n of life an ture and f formative ilties of Ap , Educatio ram only)	g <u>underline</u> . If e text box to ma ivalency stater changing equiv ly cells, throug es, such as the	you need to ake it bigger, nents" section valent statem the molecular search for ex understandi to sustain life defines life. I evelopment. s, Arts and So ol of Busines	enter mon , as it will i on under <u>I</u> nent(s). machines draterrest ng the scie <u>e. From m</u> <u>Human us</u> <u>This cour</u> <u>ocial Scien</u> <u>ss and Hea</u>	re text tha not autom nformatic and ecosy grial life, o ence of en olecular m e of fossil rse is only ces, Comr alth Science	n the box natically on about ystems, to besity, do ergy. <u>Ene</u> nachines fuels is open to nunicatio	θ eath ergy to Dn,
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provide assignments that could be graded fairly. Restricting this course to non-Science Majors who do not typically take life sciences courses will solve this problem and will improve the learning experience for these students.

SFU	SENATE COMM UNDERGRADU.					Page 1
COURSE SUE	BJECT	1BB NUMBER	342-3	TITLE	Introductory Ger Bioinformatics	nomics and
TYPE OF CH	ANGES. Ple	ease type 'X' for the ap	propriate re	vision(s).		
			propriate re			
Course number		Units			equisite X	

WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using strike through, indicate added or new text using <u>underline</u>. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under <u>Information about</u> specific course components if changing equivalent statement(s).

Major topics in genomics and bioinformatics, with integrated discussion of associated ethical/legal/social issues. An overview of laboratory and computerbased methods to study genomes, and their applications. Hands-on computer lab session providing an opportunity to use and experiment with bioinformatics software and databases utilized in genomics and bioinformatics research. Prerequisite: MBB 231, BISC 202 and <u>either MBB 243 or 3</u> units of CMPT or equivalent, all with a minimum grade of C. Recommended: STAT 201 (or an equivalent statistics course) or STAT 270.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Summer 2019

RATIONALE (must be included)

MBB 243-3 (Data Analysis for Molecular Biology and Biochemistry) is a new course that can serve as a prereq for MBB 342 as an alternative to 3 units of CMPT.

COURSE SUBJECT	MBB	NUMBER	432-4	TITLE	Advanceo Techniqu	l Molecula es	ar Biology
TYPE OF CHANGES	. Please type '	X' for the ap	propriate r	revision(s):			
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Having 2 lab courses, MBB 308 and 309W, plus MBB 331 as prereqs for MBB 432 limits enrollment, which has already suffered from moving this course from a Fall to Summer offering. Changing the MBB 309W to "recommended" instead of "required" will allow more students to take MBB 432. The instructor will adapt the course accordingly.

SFU	UNDERGRA	ADUATE STUDIES				Page 1 o
COURSE SU	JBJECT	STAT NUMBER	430	TITLE	Statistical Design & Experiments	& Analysis
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MATH 372 no longer exists.