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MEMORANDUM

Senate

DATE

September 14, 2018

FROM

ATTENTION

Wade Parkhouse, Chair

PAGES

September 14, 201

Senate Committee on

Undergraduate Studies

1/2

RE:

Course Changes (SCUS 18-51)

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)



COURSE SU	JBJECT	MSE NUMBER	211	TITLE Computational Method Engineers	d for
TYPE OF CH	ANGES. Ple	ease type 'X' for the app	propriate r	revision(s):	
Course number		Units		Prerequisite	
Title		Description		Equivalent \square Statement	
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REPEAT	FOR CRE	DIT RULES:			
Total Unit	s Allowed	: -9- 3			
					1
		YEAR FOR CHANGES d year (please enter in			
SUMMER		1			





RATIONALE (must be included)

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).





Summer 2019

COURSE SU	JBJECT M	SE NUMBER	220	TITLE Engineering Materials
TYPE OF CH	IANGES. Pleas	se type 'X' for the app	propriat	e revision(s):
Course number		Units		Prerequisite ⊠
Title		Description		Equivalent Statement
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		EAR FOR CHANGES	touth ou	





RATIONALE (must be included)

Typo is corrected.		



Page 1 of 2



Summer 2019

NUMBER **COURSE SUBJECT** MSE 312 TITLE Mechatronics Design II **TYPE OF CHANGES.** Please type 'X' for the appropriate revision(s): Course Units Prerequisite number Title Description Equivalent Statement WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using strike through, indicate added or new text using underline. 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 Information about specific course components if changing equivalent statement(s). Prerequisite: MSE 110 (or ENSC 182), MSE 320 (or ENSC 382), MSE 380 (or ENSC 381). MSE 320 and MSE 380 may be taken concurrently. Students with credit for ENSC 384 may not take MSE 312 for further credit. EFFECTIVE TERM AND YEAR FOR CHANGES Fall, Spring, Summer and year (please enter in textbox)





RATIONALE (must be included)

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



Summer 2019

TYPE OF CHANGES. Please type 'X' for Course Units number Title Descri WORDING/DESCRIPTION EDITS. Indindicate added or new text using under allows, drag the endpoint of the text be expand. Please review the "Equivalence specific course components if changin Prerequisite: 100 units and completing 394). Completion of at least 24 credit curriculum courses and completion of 393/394). Must not be taken concurred to ENSC 444 405W may not to the course of the concurred to the concurrence of the concurrence o	iption dicate deleted of the control of the contr	Prerequisite Equivalent Statement or changed text using stated to enter more text to bigger, as it will not autoff section under Information	t t crike through, han the box bmatically cion about
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394). Completion of at least 24 credit curriculum courses and completion of 393/394). Must not be taken concurr	C .		
	t units from th of two co-op te rently with MS	he upper division list of terms (MSE 293/294 and SE 493/MSE 494. Stude	MSE d MSE
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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.





Page 1 of 2

COURSE SUB	JECT	MSE NUMBER	41	1	TITLE	Capstone Design Technica Project II
TYPE OF CHAI	NGES. P	lease type 'X' for the app	ropri	ate revi	sion(s):	
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Fall, Spring, Summer and year (please enter in textbox)

Summer 2019







RATIONALE (must be included)

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



Page 1 of 2

COURSE SU	JBJECT	MSE	NUMBEI	450		TITLE		ime and Embedde l Systems
гүре оғ сн	ANGES.	Please typ	e 'X' for the ap	propria	te revi	sion(s):		
Course number			Units			Prere	equisite	
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Fall, Spring, Summer and year (please enter in textbox)

Summer 2019



Page 2 of 2

RATIONALE (must be included)

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



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CELL	SENATE COMMITTEE ON
SFU	UNDERGRADUATE STUDIES

TYPE OF CHA	NGES. Pleas	se type 'X' for the ap	propriate	revision(s):	
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RATIONALE (must be included)

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



TYPE OF CH	IANGES. Ple	ase type 'X' for the appr	opriate re	vision(s):
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Page 2 of 2

RATIONALE (must be included)

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	вјест [BUS NUMBER	217W	TITLE Critical	Thinking in Business
TYPE OF CH	ANGES. Ple	ease type 'X' for the app	oropriate r	revision(s):	
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		YEAR FOR CHANGES d year (please enter in	textbox)		
Summer 20	19				





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.

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



Cou	rse nber		Inits	propriate re	vision(s): Prerequisit	e ⊠
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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.





Page 1 of 2

COURSE SU	ВЈЕСТ Е	BUS NUMBER	360W	TITLE Busines	ss Communication
TYPE OF CH.	ANGES. Ple	ase type 'X' for the app	ropriate r	evision(s):	
Course number		Units		Prerequisite	\boxtimes
Title		Description		Equivalent Statement	
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wording/description edits. Indicate deleted or changed text using strike through, indicate added or new text using underline. 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 Information about 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)

Summer 2019





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.

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.



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TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):							
WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using strike through, indicate added or new text using underline. 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 Information about specific course components if changing equivalent statement(s). Prepares students to model, analyze and propose improvements to business processes. In the major project, students analyze a process within an organization and use current techniques and tools to propose changes and a supporting information system. Prerequisite: BUS 237; 45 units; OR Data Science majors with 45 units. Students with credit for BUS 394 may not take this course for further credit.							





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	ВЈЕСТ	BUS	401	TITLE Developing Organizational Opportunities				
TYPE OF CHANGES. Please type 'X' for the appropriate revision(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 underline. 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 Information about specific course components if changing equivalent statement(s). Prerequisite: Bus BUS 311 OR BUS 254 and 312, Bus BUS 340, Bus BUS 341, and 60 units. The course is only open to students in the Business Minor program.								
EFFECTIVE TERM AND YEAR FOR CHANGES Fall, Spring, Summer and year (please enter in textbox) Summer 2019								





RATIONALE (must be included)

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 preregs).



COURSE SUBJECT	BUS NUMBER	R 437 T	TITLE Decision	n Analysis in Business				
TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):								
Course	Units		Prerequisite					
Title	Description	. 🗆	Equivalent Statement					
WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using strike through, indicate added or new text using underline. 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 Information about specific course components if changing equivalent statement(s). A seminar in the use of Bayesian techniques in business decisions. Prerequisite: BUS 336, 360W; 60 units; OR Data Science majors with BUS 360W and 60 units.								
		,						
	ND YEAR FOR CHANGES and year (please enter in							
Summer 2019	10							





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 SI	Ј ВЈЕСТ ВІ	JS NUMBER	439	TITLE Analytics Project			
TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):							
Course number		Units		Prerequisite ⊠			
Title		Description		Equivalent \square 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 specific course components</u> if changing equivalent statement(s).							
Fall, Spring,	Summer and	EAR FOR CHANGES year (please enter in			_		
Summer 20	119						





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 SUBJ	ECT BUS	NUMBER	440	TITLE	Simulation in Management Decision-making			
TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):								
Course number		Units		Prere	equisite 🖂			
Title		Description		(T)	nivalent tement			
WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using strike through, indicate added or new text using underline. 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 Information about specific course components if changing equivalent statement(s). Development and use of simulation models as an aid in making complex management decisions. Hands on use of business related tools for computer simulation. Issues related to design and validation of simulation models, the assessment of input data, and the interpretation and use of simulation output. Prerequisite: BUS 336, 360W ₁ , 60 units; OR Data Science majors with BUS 360W.								
60 units.								
EFFECTIVE TEIF Fall, Spring, Sun	nmer and year							





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	вјест в	JS NUMBER	445	TITLE Custom	er Analytics			
TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):								
Course number		Units		Prerequisite	⊠ z _z			
Title		Description		Equivalent Statement				
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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)								
Summer 20	19							





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	ВЈЕСТ	BUS	NUMBER	470	TITLE	Business Applications of Theory	of Game
TYPE OF CHA	ANGES.	Please type 'X	" for the app	propriate rev	ision(s):		HII CON PART SECTION
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RATIONALE (must be included)

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.



COURSE SU	вјест с	MNS NUMBER	496	TITLE Commun	nication Practicum V
TYPE OF CH	ANGES. Plea	se type 'X' for the app	propriate re	evision(s):	
Course number		Units		Prerequisite	
Title		Description		Equivalent Statement	
indicate adde allows, drag expand. Pleas	d or new text the endpoint se review the	t using <u>underline</u> . If yo of the text box to ma	ou need to ake it bigge ents" section	anged text using strike enter more text than t er, as it will not autom on under <u>Information al</u>	the box atically
Commun	ication Co-c he units requ		Program.	nts in the School of Units from this course quisite: CMNS 495. (
This cour	se may be re	peated for additive c	redit.		
	Summer and	R FOR CHANGES year (please enter in	textbox)		
RATIONALE	(must be inc	cluded)			
	cumstances, final course		npleting a	dditional CMNS co-op v	work term(s)





COURSE SU	BJECT IA	T NUMBER	375	TITLE Practicum V					
TYPE OF CH	ANGES. Pleas	se type 'X' for the app	propriate	revision(s):					
Course number		Units		Prerequisite \square					
Title		Description	\boxtimes	Equivalent \square Statement					
indicate adde allows, drag expand. Plea	WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using strike through, indicate added or new text using underline. 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 Information about specific course components if changing equivalent statement(s).								
Program. U	nits from this bass/fail. Pre	s course do not coun	t towards	the SIAT Co-operative Education s completion of an SFU degree. 400). <u>This course may be repeated</u>					
Fall, Spring, S	Summer and y	EAR FOR CHANGES year (please enter in							
Summer 20		luded)							
In some ins		nts may complete ad	lditional c	co-op work terms beyond the final					



COURSE SUBJEC	CT EDUC	NUMBER	382	TITLE	The second secon	in Education: Policies, Practices
TYPE OF CHANG	GES. Please typ	e 'X' for the app	ropriate rev	rision(s):		
Course [number		Units		Prer	equisite	X
Title [Description			uivalent atement	
WORDING/DES indicate added o allows, drag the expand. Please respecific course co	r new text usin endpoint of the eview the "Equi	g <u>underline</u> . If y text box to ma ivalency statem	you need to e ke it bigger, ents" section	enter mon as it will : n under <u>I</u>	e text than	n the box atically
Prerequisite: 6 take EDUC 382	0 units. Studen for further cre		ceived credit	for FDU	E 44 <u>1, can</u> ı	not
EFFECTIVE TERIFIELD Fall, Spring, Sumi			extbox)			
SUMMEY 20						
Educ 382 and E sense to preven	duc 441 are tw	o distinct cours	es with diffe	erent con	tent. It doe	es not make
in.						



COURSE SUBJECT	EDUC	NUMBER	441	TITLE	Multicultural and Anti-racist Education
TYPE OF CHANGES.	Please type '〉	(' for the app	oropriate rev	vision(s):	
Course \square number	Un	its		Prei	requisite X
Title	De	scription			uivalent 🗆 atement
indicate added or ne allows, drag the endpexpand. Please revies specific course comp	w text using upoint of the text with Equiva onents if characters may a student of the text	nderline. If yet box to malency statem nging equivalence and the credit to take this at the credit to take this at take th	you need to oke it bigger, nents" sectionalent statements for EDUC 3 course for fi	enter mos as it will n under <u>I</u> ent(s). EDUC 25	not automatically nformation about 0, or EDUC 401/402 rsity in Education:
RATIONALE (must b		listinct cour	ses with diffe	erent con	tent. It does not make
sense to prevent stu			S		The state of the s



COURSE SUBJECT	HSCI NUMBER	460	TITLE Population and Public Hea	lth
TYPE OF CHANGES.	Please type 'X' for the app	oropriate rev	ision(s):	
Course \square	Units		Prerequisite \square	
Title	Description		Equivalent ⊠ Statement	
indicate added or new allows, drag the endp expand. Please review specific course composite of the students with credit course composite of the students with credit course cours	v text using <u>underline</u> . If oint of the text box to many the "Equivalency statent onents if changing equivalents the HSCI 471 under the	you need to e ike it bigger, a nents" section alent stateme title "Special		
Advocacy" may not	take this course for furth	er credit.		
			v	
			1 7	
p 1			2 2 2 2 3	
			1	
			4 " " " " " " " " " " " " " " " " " " "	
	ND YEAR FOR CHANGES and year (please enter in			



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.





TYPE OF CH	ANGES. Ple	ease type 'X'	for the ap	propriate	e revision(s)):	
Course number		Unit	ts		Pre	erequisite	
Title		Des	cription			quivalent tatement	
ndicate add	ed or new t	ext using <u>un</u>	<u>derline</u> . If	you need	l to enter m	ore text th	
xpand. Plea pecific cour	se review t	nt of the text he "Equivale ents if chang peated for a	ging equiv	nents" se alent stat	ction under		
xpand. Plea pecific cour	se review t	he "Equivale ents if chang	ency stater ging equiv	nents" se alent stat	ction under		
expand. Plea pecific cour	se review t	he "Equivale ents if chang	ency stater ging equiv	nents" se alent stat	ction under		
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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.



ourse	П	se type 'X' for the appropriate Units	Prerequisite ⊠
umber		omes	rierequisite 🖂
itle		Description	Equivalent Statement
ndicate added llows, drag the xpand. Please	or new tex e endpoint review the	t using <u>underline</u> . If you need of the text box to make it big	changed text using strike through, I to enter more text than the box ger, as it will not automatically ction under Information about tement(s).
<u>BPK 307</u> - Hun	nan Physiol	ogy III (3)	
gastrointesti course focus	nal, renal, es on inte		productive systems. The echanisms at the molecular,
gastrointesti course focus cellular and s 306; howeve take this co	nal, renal, es on inte systems le er, studen urse. Majo	endocrine, immune and re	productive systems. The echanisms at the molecular, Corequisite: BPK or to Fall 2017, cannot re BPK 205 (or BISC
gastrointesti course focus cellular and s 306; howeve take this cou 305), MBB 23	nal, renal, es on inte systems le er, studen urse. Majo 31 (or 201)	endocrine, immune and regration of physiological mevels. Prerequisite: BPK 305. ts who took BPK 306 price ors from outside BPK require), MATH 155 or 152 plus per EAR FOR CHANGES	productive systems. The echanisms at the molecular, Corequisite: BPK or to Fall 2017, cannot re BPK 205 (or BISC ermission of the instructor.
gastrointesti course focus cellular and s 306; howeve take this cou 305), MBB 23	nal, renal, es on inte systems le er, studen urse. Majo 31 (or 201)	endocrine, immune and regration of physiological mevels. Prerequisite: BPK 305. ts who took BPK 306 pricors from outside BPK requiply, MATH 155 or 152 plus per 153 plus per 154 plus per 155 plus per 1	productive systems. The echanisms at the molecular, Corequisite: BPK or to Fall 2017, cannot re BPK 205 (or BISC ermission of the instructor.
gastrointesti course focus cellular and s 306; howeve take this co 305), MBB 23	nal, renal, es on intesystems leser, studenurse. Major 31 (or 201)	endocrine, immune and regration of physiological mevels. Prerequisite: BPK 305. ts who took BPK 306 pricors from outside BPK required, MATH 155 or 152 plus performed by the second sec	productive systems. The echanisms at the molecular, Corequisite: BPK or to Fall 2017, cannot re BPK 205 (or BISC ermission of the instructor.

SFU SENATE COMMITTEE ON UNDERGRADUATE STUDIES

COURSE MODIFICATION FORM

Page 1 of 1

COURSE SU	BJECT M	BB NUMBER	302-B(S)	TITLE Energy: Fro	om Cells to Soci
TYPE OF CH	IANGES. Ple	ase type 'X' for the ap	propriate r	evision(s):	
Course number		Units		Prerequisite >	
Title		Description		Equivalent [Statement	
expand. Pleaspecific courses industrial and climate flow drove ecosystem explored a students in Art and Teaspecific and Teaspecific courses and climate flow drove ecosystem explored a students in Art and Teaspecific and Course flow drove explored a students in Art and Teaspecific and Course flow flow for the course flow flow flow flow flow flow flow flow	the endpoir ase review the components of the components of the components of the control of the captures a transform the Facultichnology, Echnology, Echno	ext using underline. If at of the text box to more "Equivalency statements if changing equivalency if changing equivalency cells, through all issues, such as the ll provide context for of life and is required the eand flow of energy mative evolutionary design of Applied Sciences.	you need to ake it bigge ments" sectivalent stater search for eunderstand to sustain lidefines life. developments, Arts and Sool of Busine	r machines and ecosyst xtraterrestrial life, obe- ling the science of ener- fe. From molecular mac Human use of fossil fur t. This course is only or social Sciences, Commu	ems, to sity, death gy. Energy chines to els is oen to nication,
		YEAR FOR CHANGES d year (please enter in			
RATIONALI	E (must be ir	acluded)			
Science Br (Summer 2	eadth course 2018), appro	e, MBB 302 was origin eximately half the clas	nally open to ss were MBI	urse, and to restrict en o all students. In the fir B or Biology Majors and between the MBB/Biol	st offering half were

and non-Science students made it challenging to sustain the interests of all students and to 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.



,	COURSE SUBJ	ECT	MBB	NUMBER	342-3	TITLE	Introduc Bioinforr	tory Genon natics	nics and
	TYPE OF CHA	NGES.	. Please ty	pe 'X' for the ap	propriate re	vision(s):			
	Course number			Units		Pre	requisite	X	
	Title			Description			quivalent tatement		
	Major topics associated et based metho session provisoftware and Prerequisite: equivalent, al	in ger hical/ ds to s iding a datal MBB	nomics an legal/soc study gen an opport pases utili 231, BISC a minimi	divalency stater changing equived bioinformatics ial issues. An ovomes, and their unity to use and zed in genomics 202 and either um grade of C. Ror STAT 270.	alent statems, with integrerview of lab applications experiments and bioinfo MBB 243 or	ent(s). rated discoratory a . Hands-cowith bioirmatics r _3 units o	cussion of and compute informatics esearch.	iter- er lab	
		mmer		R FOR CHANGES (please enter in					
		Data A	Analysis fo	or Molecular Bio BB 342 as an alte				course tha	at



COURSE	SUBJECT	MBB	NUMBER	432-4	TITLE	Advanced Technique	Molecular Bi	olog
TYPE OF	CHANGES.	Please typ	oe 'X' for the ap	propriate re	evision(s):			
Course number			Units		Prei	requisite	X	
Title			Description			uivalent atement		
allows, di expand. F specific community MBB 43 Laborate advance recomb protein	rag the endy Please revie ourse comp 32 - Advanc tory with ac ed contemp inant gene s within liv	point of the w the "Equ conents if ed ed Molecul companying orary mole and proteiting cells. P	ng underline. If e text box to maivalency stater changing equivaler Biology Techniques des ecular biology to manipulation rerequisite: ME or permission o	he it bigger ments" secti alent staten hniques (4) igned to giv echniques. is to investi 3B 309W, M	e, as it will on under lent(s). e practical Projects was gate the dy BB 308 and	not automa Information I experience vill involve vnamics of d MBB 331,	tically about in	
	ng, Summer		FOR CHANGES (please enter in		SEC.			
	ALE (must b	e included	1)					
enrollm offering	ent, which g. Changing	has alread the MBB 3	08 and 309W, p y suffered from 09W to "recom ne instructor wi	moving thi mended" in	s course fr stead of "r	rom a Fall to equired" wi	Summer	9



COURSE SUBJ	ECT STAT	NUMBER	430	TITLE	Statistica Experime	al Design & Ana ents	alysis of
TYPE OF CHAI	NGES. Please typ	pe 'X' for the app	propriate rev	vision(s):			
Course number		Units		Prei	requisite	\boxtimes	
Title		Description			uivalent atement		
indicate added allows, drag the expand. Please	or new text using e endpoint of the review the "Equ	I TS. Indicate de ng <u>underline</u> . If <u>i</u> e text box to ma uivalency staten changing equiva	you need to ke it bigger, nents" sectio	enter mo as it will n under]	re text tha not autom	n the box atically	
blocking vari	able, incomplete	liscussed in <mark>STA</mark> e block designs, rerequisite: <u>STA</u>	fractional fa	ctorial de	esigns, and		
	Ĩ						
		FOR CHANGES (please enter in					_
Fall 2019							
RATIONALE (n	nust be included	d)					_
MATH 372 no	longer exists.						
1 X 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							