

8888 University Drive,

TEL: 778.782.6654

avpacad@sfu.ca

Burnaby, BC

FAX: 778.782.5876

www.sfu.ca/vpacademic

Canada V5A 1S6

MEMORANDUM

ATTENTION

Senate

DATE

February 7, 2020

FROM

Wade Parkhouse, Chair

PAGES 1/2

Senate Committee on

Undergraduate Studies

RE:

Course Changes (SCUS 20-08)

For information:

Acting under delegated authority at its meeting of February 6, 2020 SCUS approved the following curriculum revisions effective Fall 2020.

a. Faculty of Arts and Social Sciences (SCUS 19-57)

- 1. Department of English
 - (i) B-Hum designation for ENGL 272 (Summer 2020)

b. Faculty of Applied Sciences

- 1. School of Mechatronic Systems Engineering (MSE)
 - (i) Prerequisite change for MSE 380 and 421

c. Beedie School of Business

- (i) Prerequisite change for BUS 489
- (ii) Units change for BUS 490, 491 and 495

d. Faculty of Environment

- 1. School of Resource and Environmental Management
 - (i) Course number and equivalent statement change for ENV 320W
 - (ii) Course number and equivalent statement change for ENV 452
 - (iii) Title, description and prerequisite changes for REM 311
 - (iv) Title and description changes for REM 356 and 356W
 - (v) Prerequisite change for REM 412 and 423

- 2. Department of Geography
 - (i) Prerequisite change for GEOG 313
 - (ii) Title change for GEOG 215
- e. Faculty of Science (SCUS 19-54)
- 1. Department of Physics
 - (i) Q designation for PHYS 416 (Summer 2020)

Senators wishing to consult a more detailed report of curriculum revisions may do so on the Senate Docushare repository at https://docushare.sfu.ca/dsweb/View/Collection-12682.



University Curriculum and Institutional Liaison Office of the Vice-President, Academic

8888 University Drive, Burnaby, BC

TEL: 778.782.6575

Kelli_whittle@sfu.ca

Canada V5A 1S6

FAX: 778.782.5876

www.sfu.ca/ugcr

MEMORANDUM

ATTENTION Catherine Murray, Associate Dean FASS

DATE Feb 3, 2020

FROM

Kelli Whittle, Director

PAGES 1

University Curriculum & Institutional Liaison

RE:

ENGL 272 B approval

The University Curriculum Office has approved **B-Hum** designation for the following course in Creative Reading, to be offered in Summer 2020 (1204):

ENGL 272-3 Creative Reading

Please forward this memo with the new course proposal material to the Faculty UCC, SCUS and Senate for final approvals.

cc: David Coley, UCG Chair, Department of English



COURSE SU	JBJECT	MSE NUMBE	R 380	TITLE	Systems Modeling and Simulation			
TYPE OF CH	ANGES. P	lease type 'X' for the ap	opropriate	e revision(s):				
Course number		Units		Prere	equisite 🗵			
Title		Description			uivalent 🗆 utement			
indicate adde allows, drag expand. Plea specific cour Prerequisit 251 (or EN	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 221 (or ENSC 281 or SEE 221), MSE 222 (or ENSC 282), MSE 251 (or ENSC 226). MSE 280 (or ENSC 380 or SEE 341). Students with credit for ENSC 381 may not take MSE 380 for further credits.							
Fall, Spring, S Fall 2020 RATIONALE The instruc	Summer a (must be		n textbox)		opriate prerequisite for			



COURSE SU	BJECT	MSE NUMBER	421	TITLE Advanced Vibration				
TYPE OF CH	ANGES. Ple	ease type 'X' for the app	propriate	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 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 222 (or ENSC 282), MSE 380 MSE 280 (or ENSC 380) and a minimum of 80 credits. Students with credit for ENSC 436 may not take MSE 421 for further credit.								
EFFECTIVE TERM AND YEAR FOR CHANGES Fall, Spring, Summer and year (please enter in textbox) Fall 2020								
RATIONALE	(must be in	icluded)						
The instruc existing cou			380 is a	more appropriate prerequisite to				



PAGE I OF I

COURSE SUBJECT	BUS NUMBE	R 489	TITLE	Management Practices for Sustainability			
TYPE OF CHANGES.	Please type 'X' for the ap	opropriate rev	ision(s):				
Course \square number	Units		Prere	equisite 🗵			
Title	Description			tivalent 🗆 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). Businesses are realigning and in some cases, reinventing their organizations toward more sustainable business models. Management systems and initiatives will be examined that enable organizations to reduce their firms' negative environmental and social impacts while, in many cases, increasing profits and competitive advantage. Prerequisite: BUS 360W and (BUS 381 or BUS 374); 60 units. Students who have taken BUS 457 cannot take this course for further credit.							
	ND YEAR FOR CHANGE and year (please enter i						
students because t then are required t The difficulty here prerequisite when	e Sustainable Business Jo hey are given the option o take BUS 489 which re is that students who opt it comes time to take BU ake BUS 489 more access	of completing quires BUS 37 to take BUS 38 S 489.	either BU 4 specific 81 find th	IS 374 or BUS 381, but cally as a prerequisite. at they do not have the			

Joint Major, and also any other Business Major, Honours or Joint Major students who are completing an HR concentration. The BUS 489 instructors and Area Coordinator have confirmed that students who take BUS 381 as a prerequisite will be equally prepared for

the course as those who take BUS 374.



PAGE I OF I

COURSE SUBJE	CT BUS	NUMBER	490	TITLE	Selected Topics in Business Administration			
TYPE OF CHANG	GES. Please type	'X' for the app	oropriate revi	sion(s):				
Course number		Units		Prere	equisite 🗆			
Title		Description			ivalent □ tement			
indicate added or allows, drag the e expand. Please re	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).							
The subject ma	BUS 490 - Selected Topics in Business Administration (3) (1) The subject matter will vary from term to term depending upon the interests of faculty and students. Prerequisite: Will vary according to topic. BUS 360W; 60 units.							
EFFECTIVE TER Fall, Spring, Sumi			textbox)					
Fall 2020 RATIONALE (mu	ist be included)				¥			
offered for either This limits the offered for 3 or	er 3 credits (BU development of 5 credits canno IS 490, Beedie v	IS 490, 491, 49 possible Speci ot be assigned	2, 493, 494, a ial Topics, as one of the exi	and 495) courses t sting cou	ation courses can only be or 5 credits (BUS 496). hat are not designed to be rse numbers. By updating ses that are designed to be			



PAGE I OF I

	COURSE SUBJECT	BUS NUMBER	491	TITLE	Selected Topics in Busines Administration	35			
	TYPE OF CHANGES.	Please type 'X' for the ap	propriate rev	ision(s):					
	Course \square number	Units		Prere	equisite 🗆				
	Title	Description		7	tivalent 🗆 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). BUS 491 - Selected Topics in Business Administration (3) (2)								
	The subject matter and students. Prere	will vary from term to te quisite: Will vary accordi	rm depending ing to topic. B	g upon the US 360W	e interests of faculty '; 60 units.				
	EFFECTIVE TERM AND YEAR FOR CHANGES Fall, Spring, Summer and year (please enter in textbox) Fall 2020 RATIONALE (must be included)								
RATIONALE (must be included) Currently, Beedie's 400-level Special Topics in Business Administration courses can only be offered for either 3 credits (BUS 490, 491, 492, 493, 494, and 495) or 5 credits (BUS 496). This limits the development of possible Special Topics, as courses that are not designed to be offered for 3 or 5 credits cannot be assigned one of the existing course numbers. By updating the units for BUS 491, Beedie will have an available option for courses that are designed to be offered for two credits.									



PAGE I OF I

COURSE SU	JBJECT	BUS NUMBER	495		Selected T Administr	opics in Busines			
TYPE OF CH	ANGES. Ple	ease type 'X' for the ap	propria	e revision(s):					
Course number		Units		Prereq	uisite [
Title		Description			valent [ement				
indicate adde allows, drag expand. Plea specific cour Selected Top	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). Selected Topics in Business Administration BUS 495 (3) (4) The subject matter will vary from term to term depending upon the interests of faculty and students. Prerequisite: as stated by the faculty at the time of offering and BUS 360W; 60 units.								
Fall, Spring, S Fall 2020 RATIONALE Currently, I offered for This limits be offered for Changing B	(must be in Beedie's 40 either 3 cre the develor for 3 or 5 cr US 495 fro	e YEAR FOR CHANGES d year (please enter in acluded) O-level Special Topics edits (BUS 490, 491, 49) coment of possible Special Specia	in Busir 92, 493, rial Topi ed one	ness Administrati 494, and 495) or cs, as courses tha of the existing co	r 5 credits at are not ourse num	(BUS 496). designed to bers.			



310	UNDERGRAC	UATE STUD	IES			Page 1 of
COURSE ST	JBJECT	ENV	_ [NUMBER	320W_	TITLE Ethics and the Env	<u>ironment</u>
TYPE OF CH	IANGES. P	lease typ	oe 'X' for the app	propriate r	evision(s):	
Course number	×		Units		Prerequisite	
Title			Description		Equivalent ⊠ Statement	
expand. Plea specific cour -ENV REM Prerequis PHIL 333-2011 and course for credit tov	the endpose review se compose 320W - I site: Stude - 3 or ENV students r further covards their	eint of the the "Equinents if Ethics an only must 399-3 "Swith credit. Phr major of the thick of	e text box to manivalency statem changing equivalency of the Environment have earned at Epecial Topics in ENV.320W ilosophy Majors or minor degree	ke it bigge nents" sect alent stater ent (3) least 45 u Environm Lor PHIL 3 and Mino Writing.	o enter more text than the box r, as it will not automatically ion under Information about ment(s). nits. Students who have taken nental Ethics" prior to or in 328-3 may not enroll in this rs may not take this course for	
[Summer a	nd year (please enter in	textbox)		
Fall 2020						
RATIONALE						
sufficient r instructors	esources t or TAs. T Major an	o manag his cours	ge it in terms of a se, which has a h	ndvising, so realthy stu	ffice but there are no longer cheduling, and the hiring of dent demand, aligns very well esources once it is formally hous	sed



Page 1 of 2

COURSE SI	UBJECT EN	NV: NUMBE	R 452	TITLE Environmental Education				
TYPE OF CH	IANGES. Plea	se type 'X' for the ap	ppropriate re	evision(s):				
Course number	Ø	Units		Prerequisite \square				
Title		Description		Equivalent ⊠ Statement				
indicate add 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).							
Prerequi: Students	ENV-REM 452 – Environmental Education (8) Prerequisite: 90 units. Students may be required to complete a Criminal Record Check. Students with credit for EDUC 452 or ENV 452 may not take this course for further credit. Quantitative/Breadth-Science.							
		YEAR FOR CHANGE year (please enter i						
Major/Hor Marine Sta directly with has offered Vancouver has been of resources converting opportuni	nours student ation. The ENV ith the Faculty d the course n So far, the E on paper only. in the FENV I g from ENV to ties with EDU	ts, including summer V/EDUC 452 course by of Education to de not only in Haida Gward RV crosslist has new This has occurred Dean's Office to manda REM course code C would fall to REM	er study in He offers oppo evelop this covail but also ver been ope in part because the ENV of the response and would	g opportunities for its aida Gwaii and at the Bamfield ortunities and synergies by working ourse further. For example, EDUC in Indonesia and in downtown ened to registration so the crosslist use there are not sufficient version of the course. Thus, by sibility for developing fit nicely with REM's ongoing off-y on REM have already established				

collaborative relationships with the course instructor in EDUC via the Sustainable

Development Program housed in REM.



COURSE S	UBJECT	REM	NUMBER	311	Т	TITLE	Applied Ecology and Sustainable Environments
TYPE OF C	HANGES. 1	Please type 'X	' for the app	oropriate	revisio	on(s):	
Course number		Un	its			Prere	quisite 🗵
Title	\boxtimes	De	scription	\boxtimes		_	ivalent □ 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). REM 311 – Applied Ecology and Sustainable Environments (3) Students will learn to apply the ecological concepts introduced in prereq courses to applied ecological problems at the population, community, and ecosystem levels of organization. Emphasis will be placed on processes which drive ecological dynamics, on recognizing those processes and dynamics in applied contexts, and on interpreting ecological data. Builds on foundational ecological concepts to study the ecological processes that govern the dynamics of populations. Students will use quantitative models to examine the role of data, variability, uncertainty, and assumptions in science and decision making. Students will learn how to improve the sustainable use of natural capital by applying scientific data, ecological theory, ecological models, critical thinking, and Adaptive Management to societal decisions. Prerequisite: REM 100 or EVSC 100; BISC 204 or GEOG 215 or REM 211; STAT 201 or 203 or 205 or GEOG 251 or equivalent. Recommended: REM 225. Quantitative.							
Fall, Spring, Fall 2020 RATIONAL The title core offer Prerequise	E (must be change is ring within ites are be	intended to s	ase enter in implify and Iajor and in o take adva	textbox) I highligh other pr	nt the r	s (e.g.	this course as a central EVSC Major). M courses that will





COURSE SUBJECT	REM NUMBER	356 TITLE	Institutional Arrangements for Sustainable Environmental Management				
TYPE OF CHANGES	5. Please type 'X' for the app	ropriate revision(s):					
Course number	Units	□ Prere	equisite 🗆				
Title 🗵	Description		ivalent 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). REM 356 – Institution Arrangements for Sustainable Environmental Management Environmental Policy (3) This course pProvides an overview of some basic legislation, agencies, and policies which currently are in use to regulate policy and governance approaches used to manage the natural environment at the international, national, provincial, regional, and local levels. Its purpose is to pPresents a basic set of evaluative questions which that can be used to address-determine the effectiveness and efficiency of different approaches to regulate and manage the environment, the environmental regulatory and management systems currently in use. Prerequisite: REM 100. Students with credit for REM 356W may not take this course for further credit.							
Fall, Spring, Summer Fall, Spring, Summer Fall 2020 RATIONALE (must of the course conthree core upper second contract of the course conthree core upper second contract of the course contact of the	AND YEAR FOR CHANGES r and year (please enter in be included) ourse and its title and descretent. Furthermore, the cour division courses in our maj n to match the intent of the	ription no longer pres se has been re-position or and, as such, it rec	oned as one of the quires a name change				



COURSE SUBJ	ECT REM	NUMBER	356W	TITLE	Institutional Arrangements for Sustainable Environmental Management			
TYPE OF CHAN	GES. Please ty	ype 'X' for the app	oropriate revi	ision(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). REM 356W – Institution Arrangements for Sustainable Environmental Management Environmental Policy (3) This course pProvides an overview of some basic legislation, agencies, and policies which currently are in use to regulate policy and governance approaches used to manage the natural environment at the international, national, provincial, regional, and local levels. Its purpose is to pPresents a basic set of evaluative questions which that can be used to address-determine the effectiveness and efficiency of different approaches to regulate and manage the environment. the environmental regulatory and management systems currently in use. Prerequisite: REM 100. Students with credit for REM 356 may not take this course for further credit. Writing.								
EFFECTIVE TERM AND YEAR FOR CHANGES Fall, Spring, Summer and year (please enter in textbox) Fall 2020								
of the course three core upp	er course and content. Furth per division co esign to mate	its title and desc nermore, the cou- ourses in our mag the the intent of the	rse has been jor and, as su	re-position	sent an up to date view oned as one of the juires a name change program (e.g. linked to			





g							
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). REM 412 – Environmental Modeling (4)							
,							





COURSE SUB	јест [REM	NUMBER	423	TITLE	Researc Assessn	ch Methods in Fi nent	sheri
TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):								
Course number		Ur	nits		Prere	equisite		
Title		De	escription			ivalent tement		
indicate added allows, drag the expand. Please specific course REM 423 – I Introduction productivity fish populat Focus will b how these in agencies. Pror 205 or Glunits; or per	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). REM 423 – Research Methods in Fisheries Assessment (4) Introduction to quantitative methods for providing scientific advice on the status, productivity and effects of fishing of fish stocks. Includes development and application fish population dynamics models, data analysis, and the quantification of uncertainty. Focus will be primarily on biological aspects of fisheries assessment while illustrating how these interface with economic, social and institutional concerns of management agencies. Prerequisite: BISC 204 or GEOG 215 or REM 211; REM 225; STAT 201 or 203 or 205 or GEOG 251 or equivalent; MATH 151 or 154 or 157 or equivalent; and 60 units; or permission of instructor.							
Fall, Spring, Sur Fall 2020								
Prerequisites prepare stud	are bei	ng revised t		ntage of two	new REM	courses	that will better	





COURSE SU	BJECT	SEOG NUMBER	313	TITLE River Geomorpholo			
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).							
Prerequisit	e: GEOG 21	3 <u>, or both EASC 209W</u>	and EASC	304.			
		YEAR FOR CHANGES I year (please enter in					
Fall 2020							
RATIONALE	(must be in	cluded)					
taken GEOG EASC 209W	313 in the pand 304. The	past 5 years with a prer	requisite w t reasonab	erequisite, several EASC students have aiver when they have already taken le success in GEOG 313, so I wish to			





COURSE SU	вјест [GEOG NUMBER	215	TITLE Biogeography				
TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):								
Course number		Units		Prerequisite				
Title		Description		Equivalent \square Statement				
indicate adde allows, drag t expand. Pleas	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).							
Biogeograp	l hy The Bio	osphere						
EFFECTIVE TERM AND YEAR FOR CHANGES Fall, Spring, Summer and year (please enter in textbox)								
Fall 2020								
RATIONALE (must be included)								
The change in course title better reflects the course content (Calendar Description: An introduction to the planetary biosphere, its living organisms, and their interactions with each other and the Earth system. Prerequisite: GEOG 111.)								
			. y - • •					



UNIVERSITY CURRICULUM AND INSTITUTIONAL LIAISON OFFICE OF THE VICE-PRESIDENT, ACADEMIC

8888 University Drive, Burnaby, BC

 $\mathrm{TEL} {:}\ 778.782.6575$

Kelli_whittle@sfu.ca

Canada V5A 1S6

FAX: 778.782.5876

www.sfu.ca/ugcr

MEMORANDUM

ATTENTION David Hik, Associate Dean Science

DATE

Feb 3, 2020

FROM

Kelli Whittle, Director

PAGES 1

University Curriculum & Institutional Liaison

RE:

PHYS 416 Q approval

The University Curriculum Office has approved $\bf Q$ designation for the following Physics course, to be offered in Summer 2020 (1204):

PHYS 416-3 Introduction to Quantum Information Science

Please forward this memo with the new course proposal material to the Faculty UCC, SCUS and Senate for final approvals.

cc: Barbara Frisken, UCG Chair, Department of Physics