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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

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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	ase type 'X' for the ap	propriate	revision(s):
Course number		Units		Prerequisite ⊠
Title		Description		Equivalent \square Statement
allows, drag to expand. Please specific course. Prerequisit	the endpoint se review the se compone e: MSE 222 of 80 credits	at of the text box to made "Equivalency statements if changing equivalency ENSC 282), MSE 3	ake it bigg nents" se alent stat 380 MSE 2	to enter more text than the box ger, as it will not automatically ction under Information about ement(s). 280 (or ENSC 380) and a 2436 may not take MSE 421
		YEAR FOR CHANGES l year (please enter in		
Fall 2020	(manatha in			
The instruction existing cou	tor of MSE	421 suggests that MSE	380 is a	more appropriate prerequisite to



PAGE I OF I

COURSE SUBJECT	BUS NUMBER	489	TITLE	Management Practices for Sustainability
TYPE OF CHANGES.	Please type 'X' for the ap	propriate rev	ision(s):	
Course \square number	Units		Prere	equisite 🗵
Title \square	Description			nivalent 🗆 tement
indicate added or ne allows, drag the endpend. Please revies specific course compensus Businesses are reatoward more sustawill be examined the environmental and competitive advantagements.	PTION EDITS. Indicate do we text using underline. If point of the text box to make the "Equivalency states onents if changing equivalency if changing equivalency and in some cases inable business models. In at enable organizations a social impacts while, in a tage. Prerequisite: BUS 36 to have taken BUS 457 care	you need to e ake it bigger, a ments" section alent stateme s, reinventing Management s to reduce thei many cases, in 60W and (BUS	enter mor as it will r n under Ir nt(s). their orga systems a r firms' n acreasing S 381 or E	e text than the box not automatically nformation about anizations and initiatives aegative profits and BUS 374); 60
	ND YEAR FOR CHANGES and year (please enter in e included)			
students because then are required t The difficulty here prerequisite when	e Sustainable Business Jo ney are given the option of take BUS 489 which red is that students who opt to it comes time to take BUS ake BUS 489 more access	of completing quires BUS 37 to take BUS 38 5 489.	either BU 4 specific 31 find th	US 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 SU	IBJECT	BUS	NUMBER	490	TITLE	Selected Topics in Bu Administration	ısiness	
түре оғ сн	ANGES. F	Please type 'X'	for the app	oropriate rev	ision(s):			
Course number		Uni	quisite 🗆					
Title		Des	scription			ivalent 🗆 tement		
indicate adde allows, drag expand. Pleas	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).							
The subject	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.							
		D YEAR FOR and year (plea						
Fall 2020 RATIONALE	(must be	included)					1	
offered for This limits offered for	either 3 c the devel 3 or 5 cre r BUS 490	redits (BUS 4 opment of po edits cannot b 0, Beedie will	.90, 491, 49 ssible Spec e assigned	92, 493, 494, a ial Topics, as one of the ex	and 495) courses t isting cou	ation courses can only or 5 credits (BUS 496) hat are not designed t rse numbers. By upda ses that are designed t	o be	



PAGE I OF I

COURSE SUBJECT	BUS NUMBER	491	TITLE	Selected Topics in Busine Administration	SS				
TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):									
Course □ number	Units		Prere	equisite \square					
Title \square	Description			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). BUS 491 - Selected Topics in Business Administration (3) (2)									
The subject matter and students. Prere	will vary from term to te quisite: Will vary accord	rm depending ing to topic. B	g upon the US 360W	e interests of faculty 7; 60 units.					
	ND YEAR FOR CHANGES and year (please enter in								
offered for either 3 This limits the deve offered for 3 or 5 cr	credits (BUS 490, 491, 49 elopment of possible Spec edits cannot be assigned 91, Beedie will have an av	92, 493, 494, a fial Topics, as one of the ex	and 495) courses t isting cou	ation courses can only be or 5 credits (BUS 496). That are not designed to be arse numbers. By updating that are designed to be					



PAGE I OF I

COURSE SU	JBJECT 1	BUS NUMBER	495	TITLE Selected To Administra	opics in Busines ation				
TYPE OF CH	ANGES. Ple	ase type 'X' for the ap	propriat	e revision(s):					
Course number		Units	\boxtimes	Prerequisite \Box]				
Title		Description		Equivalent Statement]				
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 develop for 3 or 5 cr US 495 from	O-level Special Topics dits (BUS 490, 491, 49 ment of possible Spec edits cannot be assign	in Busin 92, 493, ial Topi ed one o	ess Administration course 494, and 495) or 5 credits cs, as courses that are not c of the existing course numb the Beedie Undergraduate	(BUS 496). designed to pers.				



COURSE SU	BJECT EN	NUMBER [320W	TITLE Ethics and Environment
TYPE OF CH	ANGES. Pleas	e type 'X' for the appro	priate r	evision(s):
Course number	\boxtimes	Units [Prerequisite
Title		Description [Equivalent ⊠ Statement
ENV REM Prerequis PHIL 333- and stude further cr	se review the se component 320W – Ethic ite: Students 3 or ENV 399 nts with crededit. Philosop	"Equivalency statements if changing equivale es and Environment (3) must have earned at le 0-3 "Special Topics in E it in ENV 320W or PHI	nts" sect nt state) ast 45 u invironn L 328-3 may no	er, as it will not automatically tion under Information about ment(s). Inits. Students who have taken nental Ethics" prior to or in 2011 may not enroll in this course for take this course for credit
Fall, Spring, S Fall 2020 RATIONALE This course	Gummer and y (must be incless is currently	managed in the FENV I	Dean's C	Office but there are no longer
instructors	or TAs. This Major and it	course, which has a hea	althy stu	scheduling, and the hiring of adent demand, aligns very well esources once it is formally housed



Page 1 of 2

COURSE SI	UBJECT E	NV: NUMBE	R 452	TITLE Environmental Education				
TYPE OF CH	IANGES. Plea	se type 'X' for the ap	opropriate r	evision(s):				
Course number	Ø	Units		Prerequisite				
Title		Description		Equivalent ⊠ Statement				
indicate add allows, drag expand. Plea	ed or new tex the endpoint ase review the	xt using underline. I t of the text box to m	f you need t nake it bigge ements" sect	nanged text using strike through, to enter more text than the box er, as it will not automatically cion under Information about ment(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 studen ation. The EN ith the Facult d the course in So far, the Eon paper only in the FENV I g from ENV to ties with EDU	ts, including summe V/EDUC 452 course by of Education to denot only in Haida Gwent CNV crosslist has never a courred in the Bound of REM course code IC would fall to REM COURSE.	er study in He offers opposivelop this covail but also wer been open part because the ENV the responsional and would	g opportunities for its laida 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 I 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	TI	ITLE	Applied Ecology and Sustainable Environments	
TYPE OF CH	IANGES. I	Please type 'X	?' for the app	oropriate	e revisio	n(s):		
Course number		Un	its			Prere	equisite 🗵	
Title	\boxtimes	De	scription			_	ivalent □ tement	
indicate add allows, drag expand. Pleaspecific country REM 311 Students applied corganiza recogniza ecologica Builds or the dyna data, var will learn data, eco societal control of the dyna data data data data data data data da	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). 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.							
Fall, Spring, Fall 2020 RATIONAL The title of core offer Prerequisity	E (must be change is ing within ites are be	intended to s	ase enter in implify and Major and in to take adva	textbox)	ht the ro	(e.g.	this course as a central EVSC Major). M courses that will	





COURSE SUBJECT	REM NUMBER	356	TITLE		ional Arranger able Environm ement		
TYPE OF CHANGES.	Please type 'X' for the app	ropriate revis	ion(s):				
Course \square	Units						
Title 🖂	Description			ivalent cement			
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.							
EFFECTIVE TERM AND Fall, Spring, Summer Fall 2020 RATIONALE (must be of the course content three core upper directions)	ND YEAR FOR CHANGES and year (please enter in the included) arse and its title and descript. Furthermore, the court vision courses in our maje to match the intent of the	ription no lon se has been re or and, as suc	e-position h, it req	ned as o uires a n	one of the name change		



COURSE SUBJE	CT REM	NUMBER	356W	TITLE	Institutional Arrangements for Sustainable Environmental Management		
TYPE OF CHANG	GES. Please ty	pe 'X' for the app	oropriate revi	sion(s):			
Course number		Units		Prere	equisite 🗆		
Title		Description			ivalent \square 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 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 TER Fall, Spring, Sum Fall 2020							
of the course co	r course and incomment. Further division cosign to match	its title and descermore, the countries in our maj	rse has been i 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 CHAI	NGES. Pl	ease type 'λ	ζ' for the app	propriate rev	ision(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 Geomorphol	0			
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).							
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	equisite wa t reasonable	requisite, several EASC students have iver when they have already taken e 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 <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).						
Biogeograp	hy The Bio	sphere					
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.)							



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

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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