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Burnaby, BC

MEMORANDUM

FROM

ATTENTION Senate

Wade Parkhouse, Chair

Senate Committee on

Undergraduate Studies

RE: Course Changes (SCUS 20-53) DATE July 10, 2020

PAGES 1/2

For information:

Acting under delegated authority at its meeting of July 9, 2020 SCUS approved the following curriculum revisions effective Summer 2021.

a. Faculty of Applied Sciences

1. School of Engineering Science

- (i) Equivalent statement changes for ENSC 220 and 225
- (ii) Description change for ENSC 254

b. Beedie School of Business

(i) Prerequisite change for BUS 336

c. Faculty of Environment

1. Department of Archaeology

- (i) Title change for ARCH 226
- (ii) Unit change for ARCH 273, 348, 349, 377, 385, 388 and 390
- (iii) Prerequisite change for ARCH 285, 431, 433, 434, 435, 479, 480 and 485
- (iv)Course number and equivalent statement change for ARCH 372
- (v) Description change for ARCH 373
- (vi) Units and description change for ARCH 442
- (vii) Title, units and description change for ARCH 452

2. Department of Geography (SCUS 20-46i))

(i) B-Sci designation for GEOG 118

d. Faculty of Arts and Social Sciences
1. <u>Semester in Dialogue</u>
(i) Equivalent statement changes for DIAL 390W, 391W and 392W

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.



SCUS 20-53a COURSE MODIFICATION FORM

COURSE SU	BJECT I	ENSC NUMBER	220	TITLE Electric Circuits I					
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).									
Students wi credit.	Students with credit for MSE 250 or SEE 230 cannot take this course for further credit.								
		YEAR FOR CHANGES d year (please enter in							
Summer 20	21								
RATIONALE	(must be ir	ncluded)							
SEE 230 is a	a new cour	se equivalent to ENSC	220 that	needs to be included.					



COURSE SU	IBJECT E	ENSC NUMBER	225	TITLE Microelectronics I						
TYPE OF CH	ANGES. Ple	ase type 'X' for the app	oropriate rev	vision(s):						
Course number										
Title		Description □ Equivalent ⊠ Statement								
indicate adde allows, drag expand. Pleaspecific cours	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). Students taking or with credit for ENSC 226 or MSE 251 or SEE231 may not take ENSC 225 for further credit.									
		YEAR FOR CHANGES d year (please enter in			_					
Summer 20)21									
RATIONALE	(must be in	ncluded)								
SEE 231 is	a new cours	se equivalent to ENSC	225 that nee	eds to be included.						





SENATE COMMITTEE ON UNDERGRADUATE STUDIES

COURSE SUI	ВЈЕСТ	ENSC	NUMBER	254	TITLE		ction to Computer ation ENSC 254 (4
TYPE OF CHA	NGES. F	lease type 'X'	for the app	ropriate revi	sion(s):		
Course number		Uni	its		Prere	quisite	
Title		Des	scription		_	ivalent tement	
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). Introduction to Computer Organization ENSC 254 (4) Fundamentals of microprocessor architecture and operation; this includes instruction formats, assembly language programming (procedures and parameter passing, interrupts, etc), and memory and 1/0 I/O port interfaces. Prerequisite: (ENSC 251 & ENSC 252) or (CMPT 150 & CMPT 225 & enrolled as a Computing Science Major). ENSC 254 is a required course for all Engineering Science Majors and Honours students (no course substitutions are permitted). Students with credit for, or who are concurrently enrolled in ENSC/CMPT 250 or ENSC 329/MSE 350 cannot take this course for further credit.							
Fall, Spring, Si Summer 202		and year (plea	ise enter in t	textbox)			
RATIONALE (included)					
	-		umber "1" /	number "0") to "I/O"	(letter "I'	" / letter "O")



COURSE MODIFICATION FORM

TYPE OF CHANGES. Please type 'X' for the appropriate revision(s): Course	COURSE SU	ВЈЕСТ В	NUMBER	336	TITLE	BUS 336 - Data and Decisions II (4)		
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). This course is an extension of BUS 232. It develops and applies the quantitative models that are most directly relevant to business decisions. Beginning with material on multiple regression and forecasting modeling, the course moves on to decision analysis, business simulation, quality control, and an introduction to optimization. Prerequisite: MATH 150, MATH 151, MATH 154, or MATH 157; BUS	TYPE OF CH	ANGES. Plea	ase type 'X' for the app	oropriate rev	ision(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). This course is an extension of BUS 232. It develops and applies the quantitative models that are most directly relevant to business decisions. Beginning with material on multiple regression and forecasting modeling, the course moves on to decision analysis, business simulation, quality control, and an introduction to optimization. Prerequisite: MATH 150, MATH 151, MATH 154, or MATH 157; BUS			Units		Prere	equisite 🗵		
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). This course is an extension of BUS 232. It develops and applies the quantitative models that are most directly relevant to business decisions. Beginning with material on multiple regression and forecasting modeling, the course moves on to decision analysis, business simulation, quality control, and an introduction to optimization. Prerequisite: MATH 150, MATH 151, MATH 154, or MATH 157; BUS	Title		Description					
	indicate adde allows, drag expand. Plea specific cour This course models tha material or decision an optimization	ed or new te the endpoin se review th se compone e is an exten t are most d n multiple re alysis, busion. Prerequi	ext using <u>underline</u> . If yet of the text box to make "Equivalency statenents if changing equivalency of BUS 232. It describes and forecast exercises simulation, qualities the MATH 150, MAT	you need to eake it bigger, anents" sectionalent statemed velops and apsiness decision modeling ty control, an H 151, MATH	enter mores it will renter more in under Interes in the course in the co	re text than the box not automatically nformation about equantitative uning with rese moves on to oduction to		
EFFECTIVE TERM AND YEAR FOR CHANGES Fall, Spring, Summer and year (please enter in textbox) Summer 2021	Fall, Spring, S	Summer and						



RATIONALE (must be included)

BUS 232 and ECON 233 are now equivalent courses (voted through at the November 2019 UCC meeting), and this update indicates that students can now use ECON 233 as a prerequisite for BUS 336.

SCUS 20-53c



COURSE MODIFICATION FORM

COURSE SU	ВЈЕСТ	ARCH	NUMBER	226	TITLE	The Prehistory of Religion: Shamans, Sorcerers and Sai
TYPE OF CHA	ANGES. F	Please type	'X' for the app	propriate rev	ision(s):	
Course number		Ţ	Jnits		Prere	equisite 🗆
Title		I	Description		_	iivalent 🗆 tement
expand. Pleas	se review se compo	the "Equiv nents if ch		nents" section alent stateme	n under <u>I</u> nent(s).	not automatically nformation about ce and Saints
	lummer a		OR CHANGES llease enter in			
RATIONALE	(must be	included)				
			tter reflect the	content.		



COURSE SUBJ	ECT _	ARCH	NUMBER	273	TITLE	Archaeo	ology of the New World
TYPE OF CHAN	GES. Pl	ease type 'X'	for the app	ropriate revi	ision(s):		
Course number		Uni	its	\boxtimes	Prere	quisite	
Title		Des	scription		•	ivalent tement	
wording/desindicate added of allows, drag the expand. Please is specific course of	or new t endpoi review t	text using <u>ur</u> nt of the tex the "Equival	nderline. If y t box to mal ency statem	ou need to e ke it bigger, a ents" sectior	nter mor as it will n n under <u>Ir</u>	e text tha ot autom	n the box natically
ARCH 273 - A	rchaeol	ogy of the N	ew World (4	k <u>3</u>)			
EFFECTIVE TEI Fall, Spring, Sun				textbox)			
Summer 2021	-						
RATIONALE (m	iust be i	included)					
Changing the courses that a						ith other	second-year



COURSE SUBJECT	ARCH	NUMBER	348	TITLE	Archaeological Conservation
TYPE OF CHANGES.	Please type 'X'	for the app	ropriate revi	sion(s):	
Course \square number	Uni	ts		Prere	quisite \square
Title \square	Des	scription		_	ivalent □ tement
wording/descriptions indicate added or ne allows, drag the endpexpand. Please revies specific course comp	w text using <u>ur</u> point of the tex w the "Equivalo	nderline. If y t box to mal ency statem	ou need to e ke it bigger, a ents" sectior	nter more as it will n n under <u>In</u>	e text than the box ot automatically
ARCH 348 - Archae	eological Conse	rvation (5 4)		
EFFECTIVE TERM A Fall, Spring, Summer			textbox)		
Summer 2021					
RATIONALE (must b	oe included)				
Changing the numl laboratory courses		-	s this course	in line w	ith other third-year



COURSE SUI	ЗЈЕСТ	ARCH	NUMBER	349	TITLE	Management of Archaeological Collections			
TYPE OF CHA	NGES.	Please type '	'X' for the app	oropriate revi	ision(s):				
Course number		U	Inits		Prere	equisite 🗆			
Title		D	escription		_	ivalent 🗆 tement			
indicate added allows, drag the expand. Please specific course	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). ARCH 349 - Management of Archaeological Collections (54)								
EFFECTIVE T Fall, Spring, Su									
Summer 202									
Changing th laboratory o	e numb	er of units fi		ts this course	e in line w	rith other third-year			



COURSE SU	ВЈЕСТ	ARCH	NUMBER	377	TITLE	Historical Archaeology				
TYPE OF CHA	ANGES. P	lease type 'X	' for the app	ropriate revi	sion(s):					
Course number		Un	its	\boxtimes	Prere	quisite 🗆				
Title		De	scription		•	ivalent □ tement				
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).									
ARCH 377 -	Historic	al Archaeolo	gy (5 <u>4</u>)							
EFFECTIVE T Fall, Spring, S	ummer a			textbox)						
Summer 20 RATIONALE		included)								
		er of units fron		s this course	in line w	rith other third-year				



COURSE SUBJE	ECT A	ARCH	NUMBER	385	TITLE	Paleoanthropology				
TYPE OF CHANG	GES. Ple	ase type 'X'	for the app	ropriate revi	sion(s):					
Course number		Uni	ts	\boxtimes	Prere	equisite \square				
Title		Des	scription		_	ivalent □ tement				
indicate added of allows, drag the expand. Please r	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).									
ARCH 385 - Pa	lleoanth	ropology ([54)							
EFFECTIVE TER Fall, Spring, Sum				textbox)						
Summer 2021										
RATIONALE (m	ust be in	icluded)								
Changing the r laboratory cou			-	s this course	in line w	rith other third-year				



COURSE SU	ВЈЕСТ	ARCH	NUMBER	388	TITLE	Geoarchaeology			
TYPE OF CHA	ANGES. P	Please type 'X	X' for the app	ropriate revi	sion(s):				
Course number		Un	nits		Prere	quisite 🗆			
Title		De	escription		_	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).									
ARCH 388 -	Geoarch	aeology (<u>54</u>							
EFFECTIVE T Fall, Spring, S Summer 20	ummer a 21	and year (ple		textbox)					
Changing th	e numbe		_	s this course	in line w	rith other third-year			



COURSE SU	BJECT	ARCH	NUMBER	390	TITLE	Archaec	botany		
TYPE OF CHA	ANGES.	Please type 'X	' for the app	ropriate revi	sion(s):				
Course number		Units		\boxtimes	Prere	quisite			
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).									
ARCH 390 -	Archae	obotany (54)							
EFFECTIVE T Fall, Spring, S				textbox)					
Summer 20	21								
RATIONALE	(must b	e included)							
		er of units fro in the departr	_	s this course	in line w	ith other	third-year		



COURSE SUI	BJECT	ARCH	NUMBER	285	TITLE	Archaeological Science			
TYPE OF CHA	NGES. 1	Please type 'X	' for the app	ropriate revi	sion(s):				
Course number		Un	its		Prere	equisite 🗵			
Title		Des	scription		_	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).									
*		f ARCH 100, A YS 101 or PHY	·	•	M 111, C	HEM 121, EVSC			
EFFECTIVE TERM AND YEAR FOR CHANGES Fall, Spring, Summer and year (please enter in textbox) Summer 2021 RATIONALE (must be included)									
						umber of students nplete the course.			



COURSE SU	BJECT A	RCH NUMBE	R 431	TITLE	Historical Archaeolo	Ecology & Coas ogy	ta		
TYPE OF CHA	ANGES. Plea	ase type 'X' for the ap	opropriate i	revision(s):					
Course number		Units		Prere	quisite [\boxtimes			
Title		Description			ivalent [tement				
allows, drag t expand. Pleas	the endpoin se review th se compone	xt using underline. It of the text box to me "Equivalency state nts if changing equi" 2 or 282	nake it bigge ements" sec	er, as it will n tion under <mark>Ir</mark>	ot automa	tically			
Fall, Spring, S	EFFECTIVE TERM AND YEAR FOR CHANGES Fall, Spring, Summer and year (please enter in textbox) Summer 2021								
RATIONALE		-							
Amending p	prerequisite	e to match the chang	e of course	number fron	n ARCH 37	2 to ARCH 282			



COURSE SUBJECT	r ARCH N	NUMBER 433	TITLE	Backgro	ound to Field Worl				
TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):									
Course number	Units	; 🗆	Prere	equisite	\boxtimes				
Title	Desc	ription \square	_	iivalent 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).									
<u> </u>	CH 372 or 282 and h ARCH 434 and 4:	*	ne Department.	Normally	y taken				
EFFECTIVE TERM Fall, Spring, Summ			x)						
Summer 2021									
RATIONALE (mus	t be included)								
Amending prerec	quisite to match the	e change of cour	se number fron	n ARCH 3	72 to ARCH 282				



COURSE SUI	ВЈЕСТ	ARCH	NUMBER	434	TITLE	Archaec	ological Field Method	ds	
TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):									
Course number		U	nits		Prere	quisite	\boxtimes		
Title		D	escription		_	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).									
Prerequisite concurrentl			and permissi nd 435.	on of the Dep	oartment.	Normally	y taken		
EFFECTIVE T Fall, Spring, Si				textbox)					
Summer 20	21								
RATIONALE	(must be	included)							
Amending p	orerequis	site to matc	h the change o	of course nui	mber from	ı ARCH 3	372 to ARCH 282		



COURSE SUE	ВЈЕСТ	ARCH	NUMBER	435	TITLE	Field W	ork Practicum		
TYPE OF CHA	NGES. F	Please type	'X' for the app	ropriate	revision(s):				
Course number		Ţ	Units		Prere	quisite	\boxtimes		
Title		I	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).									
Prerequisite concurrently			2 and permissi nd 434.	on of the	Department.	Normally	y taken		
_	ummer a		OR CHANGES blease enter in	textbox)					
RATIONALE (
Amending p	rerequi	site to mat	ch the change	of course	number from	n ARCH 3	72 to ARCH 282		



COURSE SUI	ВЈЕСТ	ARCH	NUMBER	479	TITLE	Directed Readings			
TYPE OF CHA	ANGES. F	Please type 'X	' for the app	ropriate revi	sion(s):				
Course number		Un	its		Prere	equisite 🗵			
Title		De	scription		_	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).									
Prerequisite department		dit hours, inc	luding ARCF	I 372 or 282	, and peri	mission of the			
EFFECTIVE TERM AND YEAR FOR CHANGES Fall, Spring, Summer and year (please enter in textbox) Summer 2021 RATIONALE (must be included)									
Amending p	orerequis	site to match	the change of	of course nur	nber fron	n ARCH 372 to ARCH 282			



COURSE SUB	JECT ARCH	NUMBER	4 80	TITLE	Directed Laboratory/ Library/Field Research				
TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):									
Course number		Units		Prere	quisite 🗵				
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).									
Prerequisite: 45 credit hours, including ARCH 372 or 282, and permission of the department.									
_		R FOR CHANGES ar (please enter in							
Summer 202	1								
RATIONALE (1	must be includ	led)							
Amending pr	erequisite to	match the change	of course n	umber fron	n ARCH 372 to ARCH 282				



COURSE SUI	ВЈЕСТ	ARCH	NUMBER	485	TITLE	Lithic To	echnology		
TYPE OF CHA	ANGES. I	Please type 'X	for the app	ropriate revi	sion(s):				
Course number		Un	its		Prere	quisite			
Title		De	scription		•	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).									
Prerequisite	e: ARCH	372 or 282.							
EFFECTIVE T Fall, Spring, S				textbox)					
Summer 20 RATIONALE		e included)							
			the change o	of course nur	nber fron	n ARCH 3	72 to ARCH 282		



COURSE SUBJECT	ARCH NUM	MBER 372	TITLE	Materia	l Culture Analysis				
TYPE OF CHANGES. P	lease type 'X' for tl	he appropriat	e revision(s):						
Course \boxtimes number	Units		Prere	equisite					
Title	Descript	tion 🗌	•	ivalent tement	\boxtimes				
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).									
Title: ARCH 372 <u>282</u>	<u>.</u>								
Equivalent Statemer 282 for additional cr		ave completed	d ARCH 372 ca	nnot take	e ARCH				
EFFECTIVE TERM AN Fall, Spring, Summer a			x)						
Summer 2021									
RATIONALE (must be	included)								
This course provides such makes more se and intensive third-	nse as a second-ye	ear course to p	repare studen						



COURSE SU	ВЈЕСТ	ARCH	NUMBER	373	TITLE	Human Osteology			
TYPE OF CHA	NGES. F	Please type 'X	" for the app	oropriate rev	ision(s):				
Course number		Un	its		Prere	equisite \square			
Title		De	scription		_	iivalent □ 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).									
ARCH 373 -	Human	Osteology (5)						
emphasis or learn how to fragmentary	A detailed <u>and lab-intensive</u> study of human <u>skeleton</u> <u>skeletal remains</u> <u>with</u> <u>emphasis on lab and field techniques</u> <u>and dental variation</u> . <u>Designed for students to</u> <u>learn how to identify all the bones in the human skeleton, both whole and fragmentary</u> . <u>Focuses on archaeological and forensic field and lab applications for the study of the human skeleton</u> .								
EFFECTIVE T Fall, Spring, S									
Summer 20	21								
RATIONALE	(must be	included)							
Changing th	Changing the course description to better reflect the content.								



COURSE SU	ВЈЕСТ	ARCH NUMBER	4 42	TITLE Forensic Anthropology					
TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):									
Course number		Units	\boxtimes	Prerequisite \square					
Title		Description	\boxtimes	Equivalent \square Statement					
indicate adde allows, drag t expand. Pleas specific cours	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).								
Current techniques in identification of recent human skeletal remains. Focuses on the role of the forensic anthropologist in medico-legal death investigations, such as the recovery, identification and determination of cause of death of human remains found in a variety of settings. The lab component provides an overview of anthropological methods of examination of human skeletal remains, such as the estimation of sex and age, and trauma analysis.									
_		YEAR FOR CHANGES ad year (please enter in)					
Summer 20	21								
RATIONALE	(must be i	ncluded)							
		of units from 5 to 4 pues in the department.	uts this co	ourse in line with most other fourth-					
The descrip	otion is bei	ng updated to match t	he course	e content.					



COURSE SU	BJECT A	RCH NUMBER	4 52	TITLE Introduction to Paleopathology			
TYPE OF CHA	ANGES. Plea	ase type 'X' for the ap	propriate	e revision(s):			
Course number		Units		Prerequisite			
Title	\boxtimes	Description	\boxtimes	Equivalent □ Statement			
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). ARCH 452 - <u>Introduction to Paleopathology Ancient Health and Disease</u> (54) Introduces the study of ancient and historic diseases in humans and animals as expressed in bones, teeth, mummified remains, art, and historical documents. Provides <u>an essential a</u> foundation for <u>differential diagnosis in skeletal biology and forensic osteology the interpretation of pathological conditions in the human skeleton and the impact of social change on human health and well-being over time.</u>							
		YEAR FOR CHANGES year (please enter ir)			
Summer 20	21						
RATIONALE	(must be in	cluded)					
		of units from 5 to 4 pusting the sin the department.	ıts this co	ourse in line with most other fourth-			
The title and description are being updated to match the course content							



NEW COURSE PROPOSAL

1 OF 4 PAGES

COURSE SUBJECT	GEOG	NUMBER 118	
COURSE TITLE LONG - The Water Planet	— for Calendar/schedule, no more than 100 chara	acters including spaces and punctuation	
COURSE TITLE SHORT The Water Planet	— for enrollment/transcript, no more than 30 cl	haracters including spaces and punctuation	
CAMPUS where course v	will be normally taught: 🖊 Burnaby 🔲 Su	urrey Vancouver Great Northern	Way Off campus
COURSE DESCRIPTION	√ — 50 words max. Attach a course outline. Don	't include WQB or prerequisites info in this desc	ription box.
Hydrologic cycle,	e processes that control water supply floods, droughts, groundwater. Patter nge on future water supplies. Water i	rns of water use, threats to water qua	
REPEAT FOR CREDIT	YES NO Total completions	s allowed Within a term?	yes 🗸 no
materials. Each new cour	ved (S.93-11) that no new course should be approse proposal must be accompanied by the email the habout/overview/collections/course-assessments.	at serves as proof of assessment. For more informa-	
RATIONALE FOR INTR	ODUCTION OF THIS COURSE		
	urse offering for a new faculty member, Jess Science Certification is being submitted.	e Hahm, and will leverage his expertise.	
within British Columb to the wellbeing of hu SFU's campuses, will	section of many of the world's largest scienti- bia, where the study and prudent management mans, the environment, and the regional eco- introduce students (with or without a univer- ies of topical vignettes that intertwine instru- nortality.	nt of streams, forests, fisheries, glaciers, and snomy. This course, intended for majors fro sity-level background in the physical science	I groundwater is central om all faculties across ces) to the fundamentals
The boarder intention Society minor (in prep	is for GEOG 118 to be integrated into the Goaration).	lobal Environmental Systems major and Cl	imate Change and

NEW COURSE PROPOSAL 2 OF 4 PAGES

SCHEDULING AND ENROLLMENT INFORMATION

Effective term and year (e.g. FALL 2016) Fall 2021
Term in which course will typically be offered Spring Summer Fall Other (describe)
Will this be a required or elective course in the curriculum? Required Elective
What is the probable enrollment when offered? Estimate: 200
UNITS Indicate number of units: 3
Indicate no. of contact hours: 3 Lecture Seminar Tutorial Lab Other; explain below
OTHER
FACULTY Which of your present CFL faculty have the expertise to offer this course?
W. Jesse Hahm, Tracy Brennand
WQB DESIGNATION (attach approval from Curriculum Office)
B-Science certification request is attached
PREREQUISITE AND / OR COREQUISITE
none



EQUIVALENT COURSES [For more information on equivalency, see Equivalency Statements under <u>Information about Specific Course components</u> .
1. SEQUENTIAL COURSE [is not hard coded in the student information management system (SIMS).]
Students who have taken (place relevant course(s) in the blank below (ex: STAT 100)) first may not then take this course for further credit.
2 ONE WAY FOLLIVALENCY (*
2. ONE-WAY EQUIVALENCY [is not hard coded in SIMS.] (Place relevant course(s) in the blank below (ex: STAT 100)) will be accepted in lieu of this course.
(Fine relevant course(s) in the blank below (ex. STAT 100)) will be accepted in field of this course.
3. TWO-WAY EQUIVALENCY [is hard coded and enforced by SIMS.]
Students with credit for (place relevant course(s) in the blank below (ex: STAT 100)) may not take this course for further credit.
Does the partner academic unit agree that this is a two-way equivalency? YES NO
Please also have the partner academic unit submit a course change form to update the course equivalency for their course(s).
4. SPECIAL TOPICS PRECLUSION STATEMENT [is not hard coded in SIMS.]
FEES
Are there any proposed student fees associated with this course other than tuition fees? YES NO
COURSE - LEVEL EDUCATIONAL GOALS (OPTIONAL)
COURSE - LEVEL EDUCATIONAL GUALS (OF HUNAL)
At the end of this course students will:
-be able to explain and apply Earth-systems concepts in hydrology
-be able to use the systems approach to identify linkages between Earth's surface systems
-be able to think critically about the science behind disruptions to Earth systems.
-be able to use Earth-systems knowledge to inform evidence-based thinking about environmental issues.
-be able to identify pathways towards change-making and demonstrate global citizenship
-have a foundational understanding of the diverse relationships between society and spacebe able to define and explain how physical and environmental processes are related to society and space.
be use to define and explain now physical and environmental processes are related to society and space.



NEW COURSE PROPOSAL 4 OF 4 PAGES

RESOURC	ES
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List any outstanding resource issues to be addressed prior to implementation: space, laboratory equipment, etc:
OTHER IMPLICATIONS
Final exam required YES NO
Criminal Record Check required YES NO
OVERLAP CHECK
Checking for overlap is the responsibility of the Associate Dean.
Each new course proposal must have confirmation of an overlap check completed prior to submission to the Faculty Curriculum Committee.
Name of Originator
Jesse Hahm

B-COURSE CERTIFICATION REQUEST

Thank you for your interest in planning and offering a Designated Breadth (B) course. Designated Breadth courses will help meet Simon Fraser University's commitment to the education of undergraduate students as defined by the new curriculum. This form is intended to:

- determine whether proposed or existing courses meet the B criteria;
- estimate the number of B seats available to students;
- assist faculty to think through the elements of a B course

This form is divided into TWO sections:

Section I requests instructor, program and course information; **Section II** requests detailed course content information.

Please contact Susan Rhodes at slrhodes@sfu.ca or Local 3312 if you have any questions about completing this form. Completed forms can be sent either electronically to the email address above or through campus mail to Susan Rhodes, Curriculum Office, VP Academic.

Course Title: The Water Planet	
Course # (if known): GEOG 118	
Is the course (double-click the applicable box, select "ch	ecked" from the Default Value and click "OK"):
a new course?	
a modification of an existing course to broa	den its focus to meet the B criteria?
a course that has previously been piloted as	a B course?
an existing course that fulfills the B criteria	for certification?
To be considered, this form must be approved by the Associate Dean of your Faculty. Please have them signonfirmation to slrhodes@sfu.ca	
Chair/Director:	Date approved:
Associate Dean:	Date approved:

Section I

INSTRUCTOR/PROGRAM INFORMATION

Name of Instructor(s): W. Jesse Hahm (course developer); Tracy Brennand; Jeremy Venditti	
Department: Geography	
E-mail: whahm@sfu.ca Telephone: _778-782-2234	
If not the instructor named above, who will develop or revise the course?	
If the course has multiple instructors, how will the department ensure that the varying course content we routinely meet the B criteria? All course material (lecture notes and slides, assignments, and in-class activities) will be shared among instructors, and variations on the course will still maintain the same course-level educational goals (lister below).	
COURSE ENROLMENT AND OFFERING INFORMATION	
 If this is a new or modified course: when will it first be offered? — Fall 2021 how often will it be offered? Once per year what is the expected enrolment per offering? 200 	
If this is an existing course: • how often is it offered?	
what is the current average enrolment per offering?	
• what is the expected enrolment increase, if relevant, with B designation?	

Section II

THE B CRITERIA

Designated Breadth (DB) courses expose students to new theoretical perspectives, forms of thought and modes of enquiry. To qualify as a DB course, a course should be intellectually accessible to "non-majors"; that is, students' ability to master the course content should not depend on bringing to it the kind of specialized knowledge typically possessed by students majoring in a discipline. Although most DB courses will be introductory in nature, upper-division courses may qualify as DB courses if they do not require students to have specialized knowledge or specific prerequisites.

In addition, a DB course should substantially fulfill AT LEAST ONE of the following three conditions:

- 1. It explicitly addresses how and why a discipline (or disciplines) defines, acquires and organizes knowledge in particular ways; it identifies important questions and problems in the discipline (or disciplines) and describes procedures used to generate valid answers to the questions or workable solutions to the problems.
- 2. It is designed to give students a broad understanding of the historical development and/or the contemporary dynamics of the physical, natural, social and/or cultural environments.
- 3. It provides a survey of a substantial body of the knowledge, theories and/or controversies that are deemed to be central to a discipline (or disciplines).

Please give a one-paragraph description of the content of the course, and provide a syllabus (if available).

An overview of the processes that control water supply to natural ecosystems and human civilization. Hydrologic cycle, floods, droughts, groundwater. Patterns of water use, threats to water quality, effects of global climate change on future water supplies. Water issues facing British Columbia.

Syllabus information:

Class meets: Three hours of lecture weekly

Website Visit the course website on Canvas for course reading material and related links. The site will

also post course announcements, lecture summaries, and a copy of this outline. Reading

material is provided in "modules" for each lecture.

Lecture Attendance is expected; in-lecture exercises will account for 10% of the grade.

Homework Four homework exercises, each worth 10% of course grade (total 40%). Note that homework is

a large fraction of the course grade.

Readings Readings will be assigned for each lecture topic (see last page). Readings are included to add

explanation and application of concepts introduced in the lectures.

Exams In-class midterm exam, and standard final exam (on all materials) –

The midterm exam is worth 20% of the course grade and the final exam is worth 30% (total

50%). Exams will consist of short-essay questions and multiple-choice questions.

Tentative schedule:

Lec #	Date Lecture Topic	Assignments
01	Introduction to the water planet	
02	Water, giver of life	
Oceans		
03	Where water comes from: the global water cycle	#1 out
04	Introduction to the Oceans	
05	Management and mismanagement of the world's fisheries	
06	Waves, tides and tsunamis	
Runoff and E	rosion	
07	Does cloud seeding really work? (in class demonstration)	#1 due, #2 out
08	Fires, floods, grass and goats: managing erosion and landslide hazards in British Columbia	
09	Rainfall, runoff, and landslide hazards in BC	
10	Spotted owls and gold mining: impact of resource use on river ecosystems	
River System	s	
11	Anatomy of rivers	
12	Does deforestation in the Himalaya cause flooding in Bangladesh?	#2 due
NA	Break	
NA	Break	
NA	Midterm exam	
13	River restoration	
Groundwate	and Water Quality	
14	The Critical Zone	
15	What is in the water you drink?	
16	Mineral water: health food, fad, or fraud? (in class demonstration)	
17	Deeper wells & saltier waters: groundwater depletion (in class demo)	#3 out
18	The invisible menace: groundwater contamination by toxic pollution	
Managing W	ater Resources	
19	The future of British Columbia's water	#3 due #4 out
20	Droughts: a prehistoric perspective	
21	Droughts: the future	
22	The global greenhouse: Welcome to the Anthropocene	
23	Damming the rivers of the world	#4 due
24	Contaminants in British Columbia bays and streams	
	Course Parison	
25	Course Review	

By definition, Designated Breadth courses address general issues and introductory content (i.e. non-specialist). Therefore, it will be rare for a Breadth course to have multiple or upper-level prerequisites. **Please list prerequisites, if the course has any.**

- No prerequisites

All Designated Breadth courses are assigned to one (or more) of the Breadth areas: Humanities, Science and/or Social Science. Please identify the area(s) that seems most appropriate to the content of your course and answer the following questions, clarifying how the B criteria pertain to each of these areas. (For example, a course in Psychology could be designated as B-Soc or B-Sci, or both, depending on its approach to the subject matter.)

Which Breadth requirement(s) is the course designed to satisfy? __ B-Hum __ B-Sci __ B-Soc

1. Explain how this course explicitly addresses how and why a Humanities/Science/Social Science discipline (or disciplines) defines, acquires and organizes knowledge in particular ways; it identifies important questions and problems in the Humanities/Science/Social Science and describes the procedures used to generate valid answers to the questions or workable solutions to the problems.

The course will address the organization of knowledge, identification of important questions and problems and procedures to generate valid answers via implementation of the course level educational goals for the students, which are to:

- -be able to explain and apply Earth-systems concepts in hydrology
- -be able to use the systems approach to identify linkages between Earth's surface systems
- -be able to think critically about the science behind disruptions to Earth systems.
- -be able to use Earth-systems knowledge to inform evidence-based thinking about environmental issues.
- -be able to identify pathways towards change-making and demonstrate global citizenship
- -have a foundational understanding of the diverse relationships between society and space.
- -be able to define and explain how physical and environmental processes are related to society and space.
- 2. Explain how this course introduces important concepts for understanding the historical development and/or contemporary dynamics of:
 - our Western and/or non-Western heritage of thought and culture (Humanities);
 - the physical, natural, and/or technological environments we inhabit (Science);
 - the social environments we inhabit (Social Science).

Water lies at the intersection of many of the world's largest scientific and environmental challenges. This is no less true within British Columbia, where the study and prudent management of streams, forests, fisheries, glaciers, and groundwater is central to the wellbeing of humans, the environment, and the regional economy. The course will provide an introduction to important historical and contemporary dynamics to the physical environment, focusing on water, via in-class lectures, assignments, and a list of topical readings.

3. Explain how this course provides a survey of a substantial body of the knowledge, theories and/or controversies that are deemed central to a Humanities/Science/Social Science discipline or disciplines.

The course provides an overview of fundamental concepts within the scientific discipline of hydrology. It does so via a combination of basic scientific principles, hydrologic theory and practice, organized around a series of lecture 'vignettes' about topical and pressing hydrologic issues facing humanity today.

4. Describe any other ways in which this course meets the goals and criteria of a Designated Humanities/Science/Social Science Breadth course.





COURSE SU	BJECT DIA	AL NUMBER	390W	TITLE Semester: Dialogue
TVPF OF CH	ANGES Pleas	e type 'X' for the appr	onriate rev	zision(s):
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UNDERGRADUATE STUDIES Page 1 of 1

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SENATE COMMITTEE ON UNDERGRADUATE STUDIES

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