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MEMORANDUM

ATTENTION

Senate

Wade Parkhouse, Chair

Senate Committee on

Undergraduate Studies

RE:

FROM

Course Changes (SCUS 19-70)

DATE

December 6, 2019

PAGES 1/2

ies JS 19-70)

For information:

Acting under delegated authority at its meeting of December 5, 2019 SCUS approved the following curriculum revisions effective Fall 2020.

a. Beedie School of Business

(i) Equivalent Statement for BUS 232

b. Faculty of Communication, Art and Technology

1. School for the Contemporary Arts

- (i) Title change for CA 117 and 118
- (ii) Course number and equivalent statement change for CA 227
- (iii) Changes to course number, title, description, prerequisite and equivalent statement for CA 237
- (iv) Description change for CA 270 and 271
- (v) Title and description change for CA 312 and 314
- (vi) Changes to course number, units and equivalent statement for CA 317
- (vii) Description change for CA 325
- (viii) Course number, title, prerequisite and equivalent statement change for CA 335
- (ix) Course number, title, description, prerequisite and equivalent statement change for CA 337
- (x) Description change for CA 389
- (xi) Title, description and prerequisite change for CA 412W
- (xii) Title and description change for CA 414
- (xiii) Prerequisite change for CA 430
- (xiv) Course number, title, description, prerequisite and equivalent statement change for CA 436

c. Faculty of Science

- 1. Department of Biological Sciences
 - (i) Equivalent Statement change for BISC 204

2. Department of Physics

- (i) Prerequisite change for PHYS 120, 121, 125, 126, 132, and 133
- (ii) Title and prerequisite change for PHYS 233
- (iii) Course number, title and prerequisite change for PHYS 231
- (iv) Prerequisite change for PHYS 326, 332W, 365, 421, 455, 465 and 490

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.





PAGE I OF I

COURSE SUBJE	ECT BUS	NUMBER	232	TITLE Data & Decisions I					
TYPE OF CHANG	GES. Please	ype 'X' for the app	oropriate	e revision(s):					
Course number		Units		Prerequisite					
Title		Description		Equivalent ⊠ Statement					
indicate added o allows, drag the expand. Please re	r new text u endpoint of eview the "E	sing <u>underline</u> . If the text box to ma	you need ke it big nents" se	changed text using strike through, I to enter more text than the box ger, as it will not automatically ction under <u>Information about</u> tement(s).					
the use of EXCI business probl 15 units. MATI concurrently w	An introduction to business statistics with a heavy emphasis on applications and the use of EXCEL. Students will be required to use statistical applications to solve business problems. Prerequisite: MATH 150, MATH 151, MATH 154, or MATH 157; 15 units. MATH 150, MATH 151, MATH 154, or MATH 157 may be taken concurrently with BUS 232. Students with credit for BUEC 232 or ECON 233 may not take this course for further credit. Quantitative.								
		R FOR CHANGES r (please enter in							
Fall 2020									
RATIONALE (mu	ıst be includ	ed)							
take either of E of their program	CON 233 or m. BUS 232 i	BUS 232 and still ocuses on Excel a	be equip nd ECON	was determined that students could ped to continue with the requirements 233 focuses on R, so students can er of these will complement their					





COURSE SUBJ	ECT CA	NUMBER	117	TITLE Visual Art and Culture I					
TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):									
Course number		Units		Prerequisite					
Title	\boxtimes	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).									
CA 117 - Vis	ual Art and Cult	ure I - <u>Modern Ar</u>	t History (3)					
approaches national, and	An introduction to the visual arts of the nineteenth century. Formal and thematic approaches to the arts will be introduced, with attention to the social, institutional, national, and international contexts of art. Students with credit for CA (or FPA) 167 may not take this course for further credit. Breadth-Humanities.								
		FOR CHANGES							
Fall 2020		(prease enter in	tenebonj						
RATIONALE (must be include	d)							
The propose (modern) of		mmunicates the	content (a	rt history) and the temporal period					





COURSE SU	BJECT CA	NUMBER	118	TITLE Visual Art and Culture II
TYPE OF CH	IANGES. Plea	ase type 'X' for the app	propriate	e revision(s):
Course number		Units		Prerequisite
Title	\boxtimes	Description		Equivalent Statement
indicate add allows, drag expand. Plea	ed or new te the endpoint se review th	xt using <u>underline</u> . If y t of the text box to ma	ou need ke it big ents" se	changed text using strike through, I to enter more text than the box ger, as it will not automatically ction under <u>Information about</u> tement(s).
CA 118 - <u>.</u> ¥	isual Art and	-Culture II-Contempor	ary Art	History (3)
the artists, meanings feminism,	artworks, m of art. The d and the avar	ovements, and discou ebates of modernism, nt-garde will be system	arses that , postmomaticall	y to the present, with attention to at redefined the functions and odernity, postcolonialism, y explored. Students with credit for er credit. Breadth-Humanities.
Fall, Spring,		YEAR FOR CHANGES year (please enter in	textbox)	
Fall 2020				
The propos (contempo		er communicates the c	content (art history) and the temporal period



Page 1 of 1

COURSE SUBJE	ECT	CA	NUMBER	227	TITLE		of Dance from the 2 to the Present		
TYPE OF CHANG	G ES. P	lease type 'X'	for the app	ropriate rev	vision(s):				
Course number		Uni	its		Prere	quisite			
Title	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). CA 127 227 (3) History of Dance from the 20th Century to the Present Study of the development of modern dance and the reformation of the ballet from the beginning of the 20th century to the present. Emphasis will be placed on seminal dance artists and the impact their work has had upon the art form in western theatre dance. This course may be of particular interest to a range of students in departments across the University. Prerequisite: 12 credits. Students with credit for CA (or FPA) 227 may not take this course for further credit. Breadth-Humanities/Social Sciences.									
Fall, Spring, Sum Fall 2020				extbox)					
This course is o the School for th content and lev	he Cor	itemporary A							

RATIONALE (must be included)



Page 1 of 1

COURSE SUBJE	CT CA	NUMBER	237	TITLE	Selected Video S	d Topics in Film and tudies
TYPE OF CHANG	ES. Please typ	oe 'X' for the app	ropriate revi	sion(s):		
Course [\boxtimes	Units		Prere	quisite	\boxtimes
Title	\boxtimes	Description			ivalent tement	
This course will studies not cove course can be restricted. Students with coredit. Prerequisite: 3-4	new text using the modern of the view the "Equation of the view the "Equation of the modern of the m	ng <u>underline</u> . If y e text box to ma uvalency statem	rou need to exe it bigger, a ents" section lent statements of Cinema Stuthe field of filled duled course ferent the top on take this PA) 135, 136	nter more as it will man under Innt(s). Iddies (3) Imand vices. The copic is difference of the course for the	e text tha not autom aformation deo ciner ourse may erent tau for furthe	n the box natically on about ma this ght. this
EFFECTIVE TERM Fall, Spring, Sumr			textbox)			

RATIONALE (must be included)

Fall 2020

Title: The old title predates the establishment of a BA in Art, Performance and Cinema Studies. The proposed title reflects this new focus on cinema studies.

Course number: The proposed course code indicates that the course is taught within the Art Performance, and Cinema Studies area.

Description: to conform to the standard language regarding repeatability of courses, and to clarify the number of times course can be repeated for credit.

Prerequisites: modified to reflect course code modifications.





COURSE SI	UBJECT C	A NUMBER	270	TITLE Production Ensemble I						
TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):										
Course number		Units		Prerequisite						
Title		Description	\boxtimes	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 having a basic familiarity with elements of production and design participate in an in-depth theoretical and practical exploration of staging, audio and lighting for theatre, dance and music production. Assignments will be conducted in class and through practicum work on productions. May be of										
Prerequisi EFFECTIVE	ite: CA (or F	PA) 170. EAR FOR CHANGES		ents. May repeat for credit.						
Fall, Spring, S	Summer and	year (please enter in t	extbox)						
RATIONALE	(must be inc	luded)								
repetition t and a lab co coursework	RATIONALE (must be included) The course does not provide significantly different opportunities for learning upon repetition to be repeatable for credit. This course is comprised of a practicum component and a lab component. The in-lab learning is step-based content that leads to third year level coursework. The practicum component is cumulative and leads to third year level experiential practicum work in CA370/371.									





COURSE SU	JBJECT CA	A NUMBER	271	TITLE Production Ensemble II								
түре оғ сн	TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):											
Course number		Units		Prerequisite								
Title		Description	\boxtimes	Equivalent Statement								
indicate adde allows, drag 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).											
participate production class will of production on produc	Students having a basic familiarity with elements of production and design participate in an in-depth theoretical and practical exploration of stage and production management for theatre, dance and music production. Students in this class will develop skills necessary to provide technical support for the School's productions. Assignments will be conducted in class and through practicum work on productions. Maybe of particular interest to students in other departments. May repeat for credit. Prerequisite: CA (or FPA) 171. Quantitative.											
		EAR FOR CHANGES year (please enter in	textbox)									
Fall 2020												
RATIONALE	(must be inc	luded)										
repetition t and a lab co coursework	o be repeatal imponent. Th c. The practic	ble for credit. This co ne in-lab learning is st	urse is co tep-based	portunities for learning upon omprised of a practicum component I content that leads to third year level and leads to third year level								



COURSE S	UBJECT CA	NUMBER	312	TITLE	Selected T Culture St	opics in Art and udies
TYPE OF C	HANGES. Plea	ase type 'X' for the ap	propriate re	vision(s):		
Course number		Units		Prer	equisite	
Title		Description	\boxtimes		uivalent atement	
allows, dra expand. Ple specific cou CA 312 - I Investiga example, activism	g the endpoing tase review the compone of the composition of the compone of the compone of the composition of	ext using <u>underline</u> . If the tof the text box to make "Equivalency stater ints if changing equivers in Art and <u>Perform</u> thematic topic in art theory and the arts; put; or urban art and cut twice for credit if the	ake it bigger ments" section alent statem nance Cultur and perform erception and lture. May r	r, as it will on under I nent(s). re Studies nance culti nd embodi	(3) ure studies, iment; art credit. This	about for
		v .				
		YEAR FOR CHANGES year (please enter in				
Fall 2020	X					
RATIONAL	E (must be in	cluded)				
Studies. T		ates the establishmer itle (and modified de				
		to the standard langu			bility of cou	ırses, and



COURSE SUBJECT	CA NUM	IBER 314	TITLE Readings in the History of Art and Culture							
TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):										
Course \square number	Units □ Prerequisite □									
Title ⊠	Descrip	tion 🗵	Equivalent Statement							
WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using strike through, indicate added or new text using <u>underline</u> . If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under <u>Information about specific course components</u> if changing equivalent statement(s).										
Investigates a selec <u>cinema</u> and culture <u>credit if the topic is</u>	CA 314 - Readings in the History of Art, Performance and Cinema and Culture (3) Investigates a selected historical topic in the history of art, performance and cinema and culture. May repeat for credit. This course can be repeated twice for credit if the topic is different. Prerequisite: CA (or FPA) 117 (or 167), 186, 210W (or 210).									
	*	, 200, 22011 (0.								
EFFECTIVE TERM AND YEAR FOR CHANGES Fall, Spring, Summer and year (please enter in textbox) Fall 2020										
RATIONALE (must be	e included)		2							
The old title and des Cinema Studies. The performance and cit	proposed title and	he establishmer description ref	nt of a BA in Art, Performance and lect this new focus on art,							
The proposed descr	iption also clarifies s to a standard lang	the number of uage regarding	times a course can be repeated for repeatability of courses.							



COURSE SUBJ	ECT CA	NUMBER	317	TITLE	Introduction to Perform Studies	nance			
TYPE OF CHAI	NGES. Please typ	oe 'X' for the app	propriate rev	vision(s):					
Course number	\boxtimes	Units	\boxtimes	Prei	requisite \square				
Title		Description			uivalent 🗵 atement				
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). CA 317 CA 217 - Introduction to Performance Studies (4) (3) Traces the interdisciplinary origins of performance studies and brings its concepts and methods to bear on dance, music, theatre, performance art, and media performance. Prerequisite: 45 units including one history/theory course within the School for the Contemporary Arts. Students with credit for CA (or FPA) 311 under this topic may not take this course for further credit. Students with credit for CA (or FPA 317) may not take this course for further credit. Breadth-Humanities.									
EFFECTIVE TE Fall, Spring, Sur Fall 2020			textbox)						
RATIONALE (m	nust be included	1)							
We request ch introductory l division stude	ecture, the cont	n a 3 rd level cou ent and deliver	rse to a 2 nd lo	evel cour se are be	se because as an etter suited to lower				
Because the co changing the r course offerin	number of units	pe recognized as from 4 to 3, in l	s a lower-div keeping with	rision offe our equi	ering, we request valent 2 nd year lecture				



COURSE S	U BJECT CA	NUMBER	325	TITLE	Special Project in Dance Composition (3)					
TYPE OF CH	IANGES. Pleas	e type 'X' for the appr	opriate revi	sion(s):						
Course number		Units		Prere	quisite 🗆					
Title		Description	х		ivalent 🗆 tement					
indicate add allows, drag expand. Plea specific cour	WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using strike through, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under Information about specific course components if changing equivalent statement(s). A specific topic or set of ideas will form the basis for choreographic exploration.									
analysis, o	Students will create one or more works and participate in research and critical analysis, depending on the particular topic in a given term. Prerequisite: 40 units in CA (or FPA) courses. May be repeated twice for credit if the topic changes. Students with credit for FPA 325 may not take this course for further credit.									
		AR FOR CHANGES ear (please enter in te	extbox)							
Fall 2020										
Description	n: modified to c	larify the number of t	times the co	urse can	be repeated for credit.					
RATIONALE	(must be inclu	ıded)								



C	COURSE SUBJ	ECT CA	NUMBER	335	TITLE Introduction to Film	Theor					
T	TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):										
	Course number		Units		Prerequisite 🖂						
Γ	itle	\boxtimes	Description		Equivalent ⊠ Statement						
ind all ex	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). CA 318 335 - Introduction to Film-Theory and Cinema (4) This course is concerned with the systematic understanding of the general phenomenon called Cinema rather than with the properties or techniques of individual films. Various theoretical positions will be assessed and compared in terms of cinematic practice and its ideological functions. May be of particular interest to students in other departments. Prerequisite: Six units from among CA (or FPA) 136, 137, 236, 216 (or 237). Recommended: CA (or FPA) 210W (or 210). Students who have credit for CA (or FPA) 234 may not take this course for further credit. Students with credit for CA (or FPA) 335 may not take this course for further credit.										
Fa			AR FOR CHANGES ear (please enter in								
RA	ATIONALE (m	nust be inclu	ided)								
5		roposed titl	e reflects this new		in Art, Performance and Cinema cinema studies, and reflects that the	e					
			osed course code in Studies area.	ndicates	that the course is taught within the	Art					
F	Prerequisites:	modified to	reflect course cod	e modifi	cations.						





COURSE SU	J BJECT CA	NUMBER	337	TITLE		ediate Selecte and Video St	
туре ог сн	ANGES. Plea	se type 'X' for the app	ropriate rev	ision(s):			
Course number		Units		Prere	quisite	\boxtimes	
Title		Description			ivalent tement	\boxtimes	
allows, drag expand. Plea specific cour CA 316 337 An interme topics. This with credit Prerequisit	the endpoint se review the se componer. Intermediate diate course se course can lefor CA (or Flate: 6-credits in the second sec	ext using <u>underline</u> . If you to make "Equivalency statements if changing equivalence Selected Topics in Fince in critical studies in continuous per repeated once for one of the film studies (CA (or film studies) (CA (or film studies) (CA (or film studies)) could be sufficient to the film studies (CA (or film studies)) could be sufficient to the film studies (CA (or film studies)) could be sufficient to the film studies (CA (or film studies)) could be sufficient to the film studies (CA (or film studies)).	ke it bigger, and the it statements and Vide cinema film acredit if the table this course for the table ta	as it will n n under <u>In</u> ent(s). eo <u>Cinema</u> addressing opic is diff for further	Studies g a variet ferent. St credit.	(4) ry of tudents	
		YEAR FOR CHANGES year (please enter in	textbox)				
RATIONALE	(must be inc	luded)					
		ites the establishmen itle reflects this new f				nd Cinema	
		oposed course code ir na Studies area.	ndicates that	the course	e is taugl	ht within the	Art
Description	n: modified to	clarify the course's r	epeatability.	·0			
Prerequisit	es: modified	to provide a simpler	and clearer r	nath.			



Page 1 of 1

COURSE SU	J BJECT CA	NUMBER	389	TITLE Selected Topics in the Fine and Performing Arts II (3)
түре оғ сн	ANGES. Pleas	se type 'X' for the ap	propriate r	evision(s):
Course number		Units		Prerequisite
Title		Description		Equivalent Statement
allows, drag expand. Plea specific cours A specific depth in rearts discip two, dependent of the cours of th	ed or new tex the endpoint se review the se componen topic in fine egular cours dine. The wo nding on the	t using underline. If of the text box to ma "Equivalency statents if changing equivant performing and performing ares and which is no ork will be practical particular topic in	you need to ake it bigge nents" sect alent stater ts which i t appropr l, theoreti a given to r interest	s not otherwise covered in iately placed within a single cal, or a combination of the erm. Prerequisite: 30 units of to students in other
		EAR FOR CHANGES vear (please enter in		
Description	: modified to	clarify the number o	f times the	course can be repeated for credit.

RATIONALE (must be included)





COURSE SU	ЈВЈЕСТ	CA NUMBER	412W	TITLE Advanced Seminar in Art and Culture Studies			
TYPE OF CH	ANGES. P	lease type 'X' for the app	propriate r	evision(s):			
Course number		Units		Prerequisite ⊠			
Title	itle ⊠ Description ⊠ Equivalent □ Statement						
indicate adde allows, drag expand. Plea specific cour CA 412W - Provides at topic in art research le seminars. It times for couparticular in division un	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). CA 412W - Advanced Seminar in Art and Culture Performance Studies (4) Provides an in-depth investigation of a selected theoretical, historical or thematic topic in art and culture performance studies. This course requires independent research leading to a substantial paper, as well as directed reading preparation for seminars. Topics will vary from term to term. The course may be repeated four times for credit if the topic is differentwhen different topics are offered. May be of particular interest to students in other departments. Prerequisite: Eight upper division units; and one of CA (or FPA) 210W (or 210), 318 (or 335), 316 (or 337), or 357W. Writing.						
		D YEAR FOR CHANGES nd year (please enter in					
RATIONALE	(must be	included)					
Performand on art and p	ce and Cin performan egarding re	ema Studies. The propo ace studies. The modifie	sed title ar d descripti	date the establishment of a BA in Art nd description reflect this new focus ion also conforms to the standard es the number of times course can be			
Prerequisites: modified to reflect course code modifications							



COURSE SUBJEC	т СА	NUMBER	414	TITLE	Advanced of Art and	l Topics in the Hist l Culture
TYPE OF CHANG	ES. Please type	'X' for the app	propriate rev	vision(s):		
Course number] (Units		Prei	requisite	
Title 🗵	3 I	Description		. (33-5)	uivalent atement	
indicate added or allows, drag the e expand. Please respecific course co CA 414 - Advance Culture (3) An in-depth invecinema and cult	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). CA 414 - Advanced Topic in the History of Art, Performance and Cinema and Culture (3) An in-depth investigation of a selected topic in the history of art, performance and cinema and culture. This course can be repeated four times for credit if the topic is different. Prerequisite: CA (or FPA) 117 (or 167), 186, 210W (or 210) and 45 units.					
EFFECTIVE TERM Fall, Spring, Summ Fall 2020			textbox)			
RATIONALE (mus	st be included))				
Title and descrip Performance and on art, performa standard langua course can be re	d Cinema Studi nce and cinem ge regarding re	ies. The propos a studies. The epeatability of	sed title and modified de	descripti scription	on reflect t also confo	this new focus rms to the





COURSE SUB	JECT CA	NUMBER	430	TITLE Filmmaking VI			
TYPE OF CHAI	NGES. Please ty	pe 'X' for the ap	propriate rev	ision(s):			
Course number		Units		Prerequisite ⊠			
Title		Description		Equivalent Statement			
indicate added allows, drag the expand. Please	or new text us e endpoint of the review the "Ec	ing <u>underline</u> . If he text box to ma	you need to eake it bigger, a nents" section	nged text using strike through, enter more text than the box as it will not automatically n under <u>Information about</u> ent(s).			
CA 430 (6) - I	Filmmaking VI						
Students are during the tw present a con or experiment participation open only to production which fees. Prescinema video (or 335), 316	The first half of a two term project in advanced film and/or video production. Students are expected to participate in the realization of one or more projects during the two terms. Students seeking entry into this course are required to present a completed script (for a drama) or detailed proposal (for a documentary or experimental film) prior to enrolment. The exact nature of each student's participation will be determined in consultation with the instructor. This course is open only to approved film majors. Students should be advised that film production will probably incur significant financial costs in addition to required lab fees. Prerequisite: CA (or FPA) 149, 186, 231, 285 and 10 units in film or cinema video studies (CA (or FPA) 135, 136, 137, 186, 235, 236, 216 (or 237), 318 (or 335), 316 (or 337), 416 (or 436)) plus prior approval. Students with credit for FPA 430 may not take this course for further credit.						
		R FOR CHANGES (please enter in					
Fall 2020	nuat ha in alude	.45					
	A CONTRACTOR OF THE CONTRACTOR	lect new SCA foc	us on "cinem:	a studies"			
				ons, and new SCA focus on "cinema			



COURSE SUBJ	ECT CA	NUMBER	436	TITLE	Advanc Video S	ed Seminar in Film a tudies	nd
TYPE OF CHAN	GES. Please ty _l	pe 'X' for the app	ropriate revi	sion(s):			
Course number		Units		Prere	quisite	\boxtimes	
Title		Description		1.00	ivalent tement	\boxtimes	
Features inten criticism and a theories of nar be repeated or FPA) 436 may	or new text usicendpoint of the eview the "Equation of the eview the "Equation of the eview that is a contract of the eview that is a contract of the eview that is a contract of the eview	ng <u>underline</u> . If y e text box to mal uivalency statem	you need to eke it bigger, a ents" section lent stateme dideo Cinema eted topics in york of specificational cinema erent. Student credit.	nter more as it will reconstruction in the construction in the construction in the construction is with construction in the co	e text that and automorphism (4) ory, history or per library coursed the cour	n the box natically on about ry, iods; se can	
EFFECTIVE TER Fall, Spring, Sum Fall 2020			textbox)				
RATIONALE (m	ust be include	d)					
Performance a on cinema stud	nd Cinema Stu lies. The modi	l title and descri dies. The propos fied description a urses, and clarifi	sed title and o also conform	descriptions to the s	on reflect tandard l	anguage	
Prerequisites:	modified to re	flect course code	modification	ns.			





COURSE SUB	JECT BISC	NUMBER	204	TITLE Introdu	ction to Ecology		
				NAME OF THE PERSON OF THE PERS			
TYPE OF CHA	NGES. Please	type 'X' for the ap	propriate	revision(s):			
Course number x		Units		Prerequisite			
Title		Description		Equivalent Statement			
indicate added allows, drag the expand. Please	WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using strike through, ndicate 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 with	ı credit for <u>G</u>	E <mark>OG 215</mark> may not t	ake this	course for further cred	i t.		
		AR FOR CHANGES ar (please enter in					
Fall 2020	inner and yea	ar (bicase enter in	icxidux)				



RATIONALE (must be included)

Geography has changed the course description for GEOG 215 and removed their equivalency statement with BISC 204 from their calendar entry due to the reduced overlap in the two courses. This change was discussed with BISC DUCC and approved by Senate. Our motion brings BISC 204 in line with GEOG 215.



COURSE SU	JBJECT [PHYS NUMBER	120	TITLE Mechanics and Mo	dern Physics
TYPE OF CH	ANGES. Ple	ase type 'X' for the ap	propriate	erevision(s):	
Course number		Units		Prerequisite ⊠	
Title		Description		Equivalent Statement	
indicate adde allows, drag expand. Plea	ed or new to the endpoin se review th	ext using <u>underline</u> . If at of the text box to ma	you need ake it bigg nents" se	changed text using strike through to enter more text than the box ger, as it will not automatically ection under <u>Information about</u> tement(s).	t ,
rotational in physics. Prominimum godepartmen 100 final ex 150 or 151 PHYS 132.	motion, mor erequisite: l grade of C´ t, as determ kam. Please or 154 -mus Students w	mentum, energy, grav BC Principles of Physi This prerequisite may ined by the student's consult the physics ac it precede or be taken	itation, ar cs 12 or P be waive performadvisor for concurre 11, 125 or	Topics include translational and and selected topics in modern PHYS 100 or equivalent, with a ed, at the discretion of the ance on a regularly scheduled PHY further details. Corequisite: MAT ently. Recommended corequisite: 140 may not take this course for	CH e:
Fall, Spring, S		YEAR FOR CHANGES l year (please enter in			
Fall 2020					
RATIONALE	(must be in	cluded)			
enhances th	neir appreci moved - Co	ation and understand	ling of the	ke our first year lab as we feel it e course material. Redundant e must precede or be taken	
1					





COURSE SUI	ВЈЕСТ	PHYS	NUMBER	121	TITLE	Optics, Magnet	Electricity and ism	
TYPE OF CHA	TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):							
Course number		Un	its		Prere	quisite		
Title		Des	scription			ivalent tement		
allows, drag the expand. Please specific course. A general car electricity, in Prerequisite a minimum or be taken for PHYS 10	WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using strike through, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under Information about specific course components if changing equivalent statement(s). A general calculus-based introduction to electricity, magnetism and optics. Topics include electricity, magnetism, simple circuits, optics and topics from applied physics. Prerequisite: PHYS 120 or 125 or 140, with a minimum grade of C-, {or PHYS 101, with a minimum grade of B a grade of A or B}. Corequisite: MATH 152 or 155-must precede or be taken concurrently. Recommended corequisite: PHYS 133. Students with credit for PHYS 102, 126 or 141 may not take this course for further credit. Quantitative/Breadth-Science.							
EFFECTIVE T Fall, Spring, St Fall 2020								
	RATIONALE (must be included)							
enhances the wording ren	Rationale: we would like to encourage students to take our first year lab as we feel it enhances their appreciation and understanding of the course material. Redundant wording removed – Corequisite means that the course must precede or be taken concurrently. Grade requirement added explicitly to be consistent with other courses.							





COURSE SU	ВЈЕСТ	PHYS NUMBER	125	TITLE Mechanics and Special Relativity					
TYPE OF CHA	TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):								
Course number		Units		Prerequisite 🗵					
Title		Description		Equivalent Statement					
indicate adde allows, drag to expand. Pleas specific cours An enriched mathematic dynamics are in our other MATH 125 c	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). An enriched course in mechanics for students with good preparation in physics and mathematics. Special relativity and classical topics such as translational and rotational dynamics and conservation laws will be given a much more sophisticated treatment than in our other first-year courses. Prerequisite: Permission of the department. Corequisite: MATH 125 or MATH 151. Recommended corequisite: PHYS 132. Students with credit for PHYS 101, 120 or PHYS 140 may not take PHYS 125 for further credit. Quantitative.								
EFFECTIVE TERM AND YEAR FOR CHANGES Fall, Spring, Summer and year (please enter in textbox) Fall 2020									
RATIONALE (must be included) Rationale: MATH 125 is no longer offered. We would like to encourage students to take our first year lab as we feel it enhances their appreciation and understanding of the course material.									



COURSE SU	IBJECT	PHYS NUMB	ER 126	TITLE	Electric Light	city, Magnetism ar		
TYPE OF CH	TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):							
Course number		Units		Prere	equisite			
Title		Description	ı 🗆	_	ivalent tement			
indicate adde allows, drag to expand. Pleas specific cours An enriched and mather wave partic	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). An enriched course in electromagnetism for students with good preparation in physics and mathematics. Classical topics such as waves, electricity and magnetism, as well as wave particle duality and the birth of Quantum Mechanics, will be given a much more sophisticated treatment than in our other first year courses. Prerequisite: PHYS 125 or							
permission corequisite	of the de e: PHYS 1	epartment. Corequisite 133. Students with cre redit. Quantitative.	: MATH 12	26 or MATH 15	2. Recor	nmended		
		D YEAR FOR CHANGE and year (please enter)				
Fall 2020	Fall 2020							
RATIONALE	RATIONALE (must be included)							
Rationale: Nour first year course mate	ar lab as v	6 is no longer offered. we feel it enhances the	We would ir appreci	like to encour ation and unde	age stude erstandin	ents to take ag of the		





COURSE S	UBJECT PH	IYS NUMBER	132	TITLE Physics Laboratory I			
TYPE OF CH	IANGES. Pleas	se type 'X' for the appr	opriate r	revision(s):			
Course number		Units		Prerequisite ⊠			
Title		Description		Equivalent \square Statement			
indicate add allows, drag expand. Plea specific cour Introduction experiment and enrich	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). Introduction to experimental physics with an emphasis on measurement and experimental design. Includes elementary experiments in mechanics designed to support and enrich conceptual learning. Corequisite: PHYS 101 or 120 or 125. Students with credit for PHYS-130, 131, or 140 may not take PHYS 132 for further credit. Quantitative.						
EFFECTIVE TERM AND YEAR FOR CHANGES Fall, Spring, Summer and year (please enter in textbox) Fall 2020 RATIONALE (must be included)							
			ger offere	ed and are being deleted.			





COURSE SU	ЈВЈЕСТ [PHYS NUMBER	133	TITLE Physics Laboratory II			
TYPE OF CH	ANGES. P	lease type 'X' for the app	propriat	e revision(s):			
Course number		Units		Prerequisite ⊠			
Title		Description		Equivalent Statement			
indicate adde allows, drag expand. Plea	WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using strike through, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under Information about specific course components if changing equivalent statement(s).						
Introduction to experimental physics with an emphasis on measurement and experimental design. Includes elementary experiments in electromagnetism and optics designed to support and enrich conceptual learning. Prerequisite: PHYS 132 or 140 or ENSC 120 (no substitutions), with a minimum grade of C Corequisite: PHYS 102 or 121 or 126. Students with credit for PHYS-130, 131, or 141 may not take PHYS 133 for further credit. Quantitative.							
EFFECTIVE TERM AND YEAR FOR CHANGES Fall, Spring, Summer and year (please enter in textbox)							
Fall 2020							
RATIONALE (must be included) Rationale: PHYS 130 and PHYS 131 are no longer offered and are being deleted.							
Kationale: I	- H I 3 I 3 U 3	anu PH 13 131 are no lo	nger offe	ered and are being deleted.			



COURSE SU	Ј ВЈЕСТ РН	IYS NUMBER	233	TITLE Physics	Laboratory III	
TYPE OF CH	ANGES. Pleas	se type 'X' for the app	propriate	e revision(s):		
Course number		Units		Prerequisite		
Title		Description		Equivalent Statement		
indicate addallows, 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).					
PHYS 233 - Physics Laboratory-IV III (3) Statistical data analysis, experimental design and scientific communication, studied in the context of experiments spanning a range of physical systems. Prerequisite: PHYS 231 or ENSC 280PHYS 133 or PHYS 141 or ENSC 280, with a minimum grade of C Recommended prerequisite: CMPT 120. Quantitative. EFFECTIVE TERM AND YEAR FOR CHANGES						
Fall, Spring, Summer and year (please enter in textbox) Fall 2020						
RATIONALE (must be included)						
new seque using Pytho computing	nce. This chan on in the lab a	nge requires renumb and wish to recomme e attempting this cou	ering an end that	HYS 233 will be the firs d change in prerequisit students complete thei de requirement added	es. We will be r first	





COURSE SU	JBJECT PH	iys number	231	TITLE Physics Laboratory IV		
TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):						
Course number	\boxtimes	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).						
data acquis PHYS 130, a minimu	ition, electro 133 or 141(n	nics, control theory, o substitutions) CoP . Students with cre	and stat rerequi	ohysics, including computer-aided istical data analysis. Prerequisite: site: PHYS 233 and PHYS 255, with PHYS 231 may not take PHYS 234		
		EAR FOR CHANGES year (please enter in)		
Fall 2020						
RATIONALE	(must be incl	uded)				
	nce. This char			HYS 234 will be the second lab in the d change in prerequisites. PHYS 130		





COURSE SUI	ВЈЕСТ	PHYS	NUMBER 326	TITLE	Electronic Instrumer	
TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):						
Course number		Units		Prere	equisite 🛭	₫
Title		Descr	ription \square		ivalent [tement]
indicate added allows, drag the expand. Please specific course Circuits and measuremen	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). Circuits and circuit theory, passive and active devices, amplifiers, feedback, modern measurement techniques and instrumentation. Prerequisite: PHYS 231 234 and 255, with a minimum grade of C Quantitative.					
EFFECTIVE TERM AND YEAR FOR CHANGES Fall, Spring, Summer and year (please enter in textbox) Fall 2020						
RATIONALE (must be included) Change of course number PHYS 231 -> PHYS 234. PHYS 255 is required for PHYS 234 so						
change of co no need to sp	urse nui pecify it	mber PHYS 231 here.	-> PHYS 234. PH	YS 255 is requ	ired for PH	YS 234 so



COURSE SU	вјест [PHYS NUMBE	R 332W	TITLE [Advance	ed Physics Lab	oratory I
TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):							
Course number		Units		Prerec	quisite	\boxtimes	
Title		Description			ivalent ement		
indicate adde allows, drag the expand. Pleas specific cours Experiment molecular obiophysical spectroscop design, open experimenta Biological Pleas 233; e CHEM 260, l Students with strain st	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). Experiments investigating a range of physical phenomena such as Brownian motion, molecular order, chaotic dynamics, Doppler broadening of stellar spectra, and biophysical forces using techniques such as interference, optical trapping, and spectroscopy. Attention will also be given to more general skills, including experimental design, operating and troubleshooting experimental equipment, modeling of experimental results, data analysis, and the presentation of experimental results. Biological Physics students will do a selected set of experiments. Prerequisite: Either PHYS 233; or both (PHYS 231 and either CHEM 266 or PHYS 347) and either PHYS 285 or CHEM 260, both with a minimum grade of C PHYS 347 may be taken concurrently. Students with credit for PHYS 332 may not take this course for further credit. Writing/Quantitative.						
EFFECTIVE TERM AND YEAR FOR CHANGES Fall, Spring, Summer and year (please enter in textbox)							
	Fall 2020						
alternative r	HPH and B equiremen	cluded) IPH will be modified its were provided for PHYS 233. PHYS 332	students in	the BIPH an	d CHPH	programs,	



COURSE SU	J BJECT P	HYS NUMBE I	R 365	TITLE	Semico	nductor Device	Physics
TYPE OF CH	I ANGES. Plea	se type 'X' for the ap	propriat	e revision(s):			
Course number		Units		Prere	equisite	\boxtimes	
Title		Description			uivalent atement		
indicate add allows, drag expand. Plea	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).						
Structure and properties of semiconductors, semiconductor theory, theory and operation of semiconductor devices, semiconductor device technology. PreCorequisite: PHYS 285; PHYS 321, or 221; PHYS 255; both with a minimum grade of C-, or ENSC 380permission from the department. PHYS 321, and ENSC 380, and PHYS 365 may be taken concurrently. Recommended: PHYS 285. Students with credit for ENSC 224 or ENSC 324 may not take PHYS 365 for further credit. Quantitative.							
EFFECTIVE TERM AND YEAR FOR CHANGES Fall, Spring, Summer and year (please enter in textbox)							
Fall 2020							
RATIONALE	(must be inc	cluded)					
PHYS 221 is again. ENSO from the de	C 380 is not a	ffered. PHYS 255 is a useful prerequisite.	required . Interest	for PHYS 285, ed students ca	so no ne n reques	ed to specify it t permission	
							_



COURSE SI	ЈВЈЕСТ РН	NUMBER NUMBER	421	TITLE Electromagnetic Waves			
TYPE OF CH	TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):						
Course number		Units		Prerequisite ⊠			
Title		Description		Equivalent □ Statement			
indicate add allows, drag expand. Plea specific cour	WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using strike through, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under Information about specific course components if changing equivalent statement(s). A continuation of PHYS 321: properties of electromagnetic waves and their interaction						
propagation refraction 321 (no su Students w	with matter. Transmission lines and waveguides; antennas, radiation and scattering; propagation of electromagnetic waves in free space and in matter; reflection and refraction at boundaries; polarization, interference and diffraction. Prerequisite: PHYS 321 (no substitution); PHYS 255 or ENSC 380, both with a minimum grade of C Students with credit for PHYS 324 or 425 may not take PHYS 421 for further credit. Quantitative.						
EFFECTIVE TERM AND YEAR FOR CHANGES Fall, Spring, Summer and year (please enter in textbox)							
Fall 2020							
PHYS 324	E (must be incl and 425 were ent with other	canceled > 10 years	ago. Gra	rade requirement added explicitly to			





COURSE S	UBJECT PH	IYS NUMBER	455	TITLE Modern Optics		
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). Optical physics, including geometrical and physical optics, waves in anisotropic media, coherence, image formation and Fourier optics, guided wave optics and selected advanced topics such as lasers, nonlinear optics, photonics and quantum optics. Prerequisite: PHYS 321-or 221, with a minimum grade of C Corequisite: PHYS 385.						
Quantitative. EFFECTIVE TERM AND YEAR FOR CHANGES Fall, Spring, Summer and year (please enter in textbox)						
Fall 2020						
RATIONALE (must be included)						
PHYS 221	is no longer ol	ffered.				





COURSE SUBJ	ECT PHYS	NUMBER	465	TITLE Solid St	ate Physics		
TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):							
Course number		Units		Prerequisite	\boxtimes		
Title		Description		Equivalent Statement			
indicate added of allows, drag the expand. Please	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).						
Crystal structure, lattice vibrations and thermal properties of solids, free electron model, band theory, and applications. Prerequisite: PHYS 385 or CHEM 364, with a minimum grade of C Quantitative.							
EFFECTIVE TERM AND YEAR FOR CHANGES Fall, Spring, Summer and year (please enter in textbox)							
Fall 2020							
RATIONALE (must be included)							
Adding CHEM 364 as a suitable pre-requisite.							





COURSE SUE	BJECT PHYS	NUMBER	490	TITLE General Relativity and Gravitation			
TYPE OF CHA	NGES. Please t	ype 'X' for the ap	propriat	ite revision(s):			
Course number		Units		Prerequisite ⊠			
Title		Description		Equivalent Statement			
indicate added allows, drag the expand. Please specific course Gravity and sholes, stellar or MATH 47	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). Gravity and space-time, Einstein's equations and their solution, tests of relativity, black holes, stellar equilibrium and collapse, and cosmological models. Prerequisite: PHYS 285 or MATH 471; PHYS 384, both with a minimum grade of C-; or permission of the department. Quantitative.						
EFFECTIVE TERM AND YEAR FOR CHANGES Fall, Spring, Summer and year (please enter in textbox) Fall 2020							
RATIONALE (must be included)							
MATH 471 is no longer offered, encourage interested students (e.g. MATH) to seek permission.							