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MEMORANDUM

ATTENTION

FROM

Senate

Wade Parkhouse, Chair

Senate Committee on

Undergraduate Studies

RE:

Course Changes (SCUS 19-70)

December 6, 2019

PAGES 1/2

e Callause

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 234
- (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 SUBJECT BUS NUMBER 232 TITLE Data & Decisions I									
TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):									
Course									
Title □ Description □ 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).									
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.									
EFFECTIVE TERM AND YEAR FOR CHANGES Fall, Spring, Summer and year (please enter in textbox)	-								
Fall 2020									
RATIONALE (must be included)									
ECON 233 was created for Econ students, however it was determined that students could take either of ECON 233 or BUS 232 and still be equipped to continue with the requirement of their program. BUS 232 focuses on Excel and ECON 233 focuses on R, so students can select based on their interest and how one or the other of these will complement their future studies.	:3								





COURSE SUBJECT CA NUMBER 117 TITLE Visual Art and Culture I								
TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):								
Course								
Title ⊠ Description □ 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).								
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.								
EFFECTIVE TERM AND YEAR FOR CHANGES Fall, Spring, Summer and year (please enter in textbox) Fall 2020 RATIONALE (must be included) The proposed title better communicates the content (art history) and the temporal period (modern) of this course.								





COURSE SU	BJECT CA	NUMBER	118	TITLE Visual Art and Culture II					
TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):									
Course number		Units		Prerequisite					
Title		Description		Equivalent \square Statement					
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).								
A study of the artists, meanings feminism,	A study of the visual arts from the twentieth century to the present, with attention to the artists, artworks, movements, and discourses that redefined the functions and meanings of art. The debates of modernism, postmodernity, postcolonialism, feminism, and the avant-garde will be systematically explored. Students with credit for CA (or FPA) 168 may not take this course for further credit. Breadth-Humanities.								
	EFFECTIVE TERM AND YEAR FOR CHANGES Fall, Spring, Summer and year (please enter in textbox) Fall 2020								
RATIONALE	(must be incl	uded)							
The propos (contempo	sed title better rary) of this co	communicates the ourse.	content (a	art history) and the temporal period					



Page 1 of 1

COURSE SUBJECT		CA NUMBER		227 TITLE		History of Dance from the 20 th Century to the Present		
			And the Collection of the Collection					
	TYPE OF CHANGES.	Please type 'X'	for the appr	opriate revi	sion(s):			
	Course ⊠ number	Uni	its		Prere	quisite		
	Title \square	Des	scription			ivalent tement	\boxtimes	
	wording/Descripe indicate added or new allows, drag the endp expand. Please review specific course composite course	or text using uncoint of the text using uncoint of the text of the text of the "Equivale onents" if chan ory of Dance for mode 20th century is and the implace. This cours dents across the FPA 227 m	t box to make the control of the con	ou need to enter it bigger, a sents" section ent statement of the reformant. Emphasis rk has had uparticular in r. Prerequisit	the Presentation of s will be poon the atterest to te: 12 cre	e text that of automotion automotion the baller of a range of dits. Studies	t from	
	EFFECTIVE TERM AN Fall, Spring, Summer a			extbox)				
	This course is offere the School for the Co content and level of	ntemporary A	emester of th	ne first year o	of the dan	nce majo nber to r	r in eflect the	

RATIONALE (must be included)



Page 1 of 1

COURSE SUB	JECT	CA	NUMBER	237	TITLE	Selected ' Video Stu	Topics in Film and Idies		
TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):									
Course number	\boxtimes	Uı	nits		Prei	equisite	\boxtimes		
Title	\boxtimes	De	escription	\boxtimes		uivalent atement	\boxtimes		
	he endpo e review	oint of the te the "Equiva	xt box to ma llency staten	ke it bigger, 1ents" sectio	as it will n under <u>l</u>	not autom	atically		
expand. Please review the "Equivalency statements" section under <u>Information about specific course components</u> if changing equivalent statement(s). CA <u>213237</u> - Selected Topics in <u>Film and Video Cinema</u> Studies (3) This course will cover a specific topic within the field of <u>film and video</u> cinema									
	studies not covered in depth in regularly scheduled courses. The course may This course can be repeated once for credit if a different the topic is different taught.								
Students wi	Students with credit for CA (or FPA) 237 may not take this course for further credit.								
	Prerequisite: 3 units in film studies (CA (or FPA) 135, 136, 137, 186, 235, 236, 318 (or 335), 313 (or 337), 436) or 30 units. Breadth-Humanities.								

EFFECTIVE TERM AND YEAR FOR CHANGES

Fall, Spring, Summer and year (please enter in textbox)

Fall 2020

RATIONALE (must be included)

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.





I									
TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):									
WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using strike through, indicate added or new text using <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).									
_									
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.									
1									





COURSE SU	J BJECT CA	A NUMBER	271	TITLE Production Ensemble II				
TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):								
Course number		Units		Prerequisite \square				
Title		Description	\boxtimes	Equivalent Statement				
indicate adde allows, drag expand. Plea specific court	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 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						
Fall 2020								
RATIONALE	(must be inc	luded)						
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	J BJECT CA	NUMBER	312	TITLE Selected Topics in Art and Culture Studies
TYPE OF C	HANGES. Ple	ase type 'X' for the ap	propriate re	vision(s):
Course number		Units		Prerequisite
Title		Description	\boxtimes	Equivalent \square Statement
allows, drag expand. Ple specific cou CA 312 - S Investigat example, J activism a	g the endpoin ase review the rse compone Gelected Topi res a selected postcolonial to and resistance	t of the text box to made "Equivalency statements if changing equivalency in Art and Perform thematic topic in art and the arts; poets; or urban art and cultivations.	ake it bigger, nents" section alent statem tance Gultur and perform and ture. May re	re Studies (3) nance culture studies, for and embodiment; art
		YEAR FOR CHANGES year (please enter in		
RATIONALI	E (must be in	cluded)		
Studies. Th				Art, Performance and Cinema eflect this new focus on art and
Descriptio clarifies th	n: conforms to	to the standard langua	age regardin	ng repeatability of courses, and credit.





COURSE SU	BJECT CA	NUMBER	314	TITLE Readings in the History of Art and Culture
TYPE OF CI	HANGES. Pleas	se type 'X' for the ap	propriate r	evision(s):
Course number		Units		Prerequisite
Title		Description	\boxtimes	Equivalent Statement
cxpand. Pleaspecific course CA 314 - R Investigate cinema an credit if th	ase review the rse component leadings in the less a selected led culture. May e topic is diffe	"Equivalency statents if changing equivalence History of Art, Perfective Perfection 1 the repeat for credit. The	nents" section alent stater or mance are history of this course of	art, performance and can be repeated twice for
		EAR FOR CHANGES vear (please enter in		
	(must be inc	uded)		
The old titl Cinema Stu performan	e and descrip idies. The pro ce and cinema	tion pre-date the est posed title and descr a studies.	ription refle	t of a BA in Art, Performance and ect this new focus on art, mes a course can be repeated for

credit, and conforms to a standard language regarding repeatability of courses.



COURSE SU	вјест [CA	NUMBER	317	TITLE	Introduction to Perform Studies	ance
TYPE OF CH	ANGES. F	Please type	e 'X' for the ap	propriate re	vision(s):		
Course number			Units	\boxtimes	Pre	requisite 🗆	
Title		1	Description			uivalent ⊠ atement	
indicate adda allows, drag expand. Plea specific cour CA 317 CA Traces the and methor performant School for this topic in	ed or new the endpose review se compose 217 - Intrinterdiscids to bear ce. Prerecting not ta	text using pint of the the "Equinents if clared or dance quisite: 45 mporary & ke this con	g underline. If text box to may alency stater hanging equive to Performance igins of performance, music, theatrunits including Arts. Students	you need to ake it bigger, nents" section alent statem ce Studies (4) rmance studies, performang one histor with credit for credit. Stu	enter mo as it will on under lent(s). (3) ies and brace art, are y/theory or CA (or dents wit	course within the FPA) 311 under h credit for <u>CA</u>	
			OR CHANGES blease enter in				
RATIONALE	(must be	included)					
We request	changing y lecture,	this from	a 3 rd level cou	urse to a 2nd l y of this cou	level cour rse are be	rse because as an etter suited to lower	
Because the changing th course offer	e number	vill now be	e recognized a rom 4 to 3, in	s a lower-div keeping with	vision offe 1 our equi	ering, we request valent 2 nd year lecture	



COURSE SU	ВЈЕСТ	CA	NUMBER	325	TITLE	Special Project in Dance Composition (3)			
TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):									
Course number		Un	its		Prere	quisite 🗆			
Title		De	scription	X	-	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). A specific topic or set of ideas will form the basis for choreographic exploration. 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.									
EFFECTIVE TERM AND YEAR FOR CHANGES Fall, Spring, Summer and year (please enter in textbox) Fall 2020									
	Description: modified to clarify the number of times the course can be repeated for credit.								
RATIONALE (must be included)									



COURSE SUBJ	ECT CA	NUMBER	335	TITLE Introduction to Film	ı Theor					
TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):										
Course number	\boxtimes	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 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.										
Recommende FPA) 234 may	ed: CA (or FPA) : y not take this c	210W (or 210).	Students ver credit. St	37, 236, <u>213 (or</u> 237 <u>)</u> . who have credit for CA (or tudents with credit for <u>CA</u> it.						
	mmer and year	FOR CHANGES (please enter in								
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, and reflects that the course content is not introductory.										
Course numbe Performance,	er: The propose and Cinema Stu	ed course code in udies area.	ndicates th	at the course is taught within the	e Art					
Prerequisites:	: modified to re	flect course cod	e modifica	tions.						



	COURSE SUBJ	ECT CA	NUMBER	337	TITLE		liate Selected Top nd Video Studies	ics	
Jagares .	TYPE OF CHAI	NGES. Please ty	pe 'X' for the ap	propriate re	vision(s):				
	Course number	$oxed{\boxtimes}$ Units $oxed{\Box}$ Prerequisite $oxed{\boxtimes}$			\boxtimes				
	Title	\boxtimes	Description	\boxtimes		quivalent catement	\boxtimes		
	indicate added allows, drag the expand. Please specific course CA 313 337 In An intermedit opics. This country with credit for Prerequisite:	or new text usi e endpoint of th review the "Equation of the components" if attermediate Sele atte course in crourse can be repor CA (or FPA) 3	olTS. Indicate deing underline. If e text box to ma uivalency statem changing equivalence of Topics in ected Topics in ected Topics in ected once for 37 may not take a studies (CA (or FPA) co	you need to ake it bigger, nents" section alent statem Film and Vide cinema film credit if the ethis course	enter mo as it will on under I ent(s). eo Cinem addressir topic is di for furthe	re text than not autom (Information) a Studies (Ing a variety) ifferent. Studies (Ing a variety) ifferent. Studies (Ing a variety) ifferent. Studies (Ing a variety)	n the box atically n about (4) y of udents		
	EFFECTIVE TERM AND YEAR FOR CHANGES Fall, Spring, Summer and year (please enter in textbox) Fall 2020								
	Title: The old		l) ne establishmen	ut of a BA in A	Art Perfo	rmance an	d Cinema		
	Studies. The p	proposed title re	eflects this new	focus on cine	ema studi	es.	a dinema		
		er: The propose and Cinema Stı		ndicates that	the cour	se is taugh	t within the Art		
	Description: r	modified to clari	fy the course's	repeatability	·.				
	Prerequisites: modified to provide a simpler and clearer path.								



RATIONALE (must be included)

COURSE MODIFICATION FORM

Page 1 of 1

COURSE SUBJECT	CA NUMBER	389	TITLE		d Topics in the ning Arts II (3)	Fine and		
TYPE OF CHANGES.	Please type 'X' for the app	propriate rev	ision(s):					
Course \square	Units		Prere	quisite				
Title	Description			ivalent tement				
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).								
depth in regular of arts discipline. Th two, depending of CA (or FPA) cours	fine and performing ar courses and which is not le work will be practical in the particular topic in ses. May be of particular y be repeated twice for o	t appropriat l, theoretical a given terr r interest to	ely place l, or a con n. Prerec students	ed within mbination quisite: 3 in other	n a single on of the 30 units of			
EFFECTIVE TERM A	ND YEAR FOR CHANGES							
	and year (please enter in	textbox)						
Fall 2020								
Description: modifie	ed to clarify the number o	f times the co	ourse can	be repea	ted for credit.			

November 2016





COURSE SU	BJECT	CA	NUMBER	412W	TITLE		d Seminar in Art Ire Studies
TYPE OF CH	IANGES.	Please type ''	X' for the app	oropriate rev	vision(s):		
Course number		Ur	nits		Prei	requisite	\boxtimes
Title		Description				uivalent atement	
expand. Pleaspecific country CA 412W - Provides a topic in art research lesseminars. ' times for country particular	the endpuse review Advance and cult and cult redit if the interest thits; and cults; and cults;	w text using upoint of the text with the "Equivarents of the ed Seminar in the investigation a substantial ill vary from the topic is different of CA (or	ext box to mailency stateming equivalent and Cul- on of a select ance studies. I paper, as we term to terming other departs	ke it bigger, nents" sectionalent statementure Performated theoretical This course ell as directed in The course different toportments. Presentational section is the course different toportments.	as it will n under l ent(s). nance Stu cal, histor requires d reading may be n ics are of requisite:	not autom nformation dies (4) rical or ther independe g preparati repeated for fered. May	matic ent ion for bur be of er
		ND YEAR FOI and year (ple		textbox)			
RATIONALE	(must be	e included)					
Performan on art and	ce and Ci performa egarding	nema Studies ance studies. '	s. The propos The modified	sed title and d description	descripti also con	on reflect to	nt of a BA in Art this new focus ne standard s course can be
Prerequisites: modified to reflect course code modifications							



COURSE SU	JBJECT C	A NUMBER	414	TITLE	Advanced of Art and	l Topics in the Hist l Culture				
TYPE OF CI	TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):									
Course number		Units		Pre	requisite					
Title		Description		the state of	luivalent atement					
allows, drag expand. Pleaspecific cou CA 414 - A Culture (3 An in-depicinema an	the endpoir ase review the rse component advanced Top) th investigat d-culture. The	ext using <u>underline</u> . If of the text box to make "Equivalency stater ents if changing equivalents if changing equivalents in the History of Axion of a selected topic his course can be repeated to the course can be repeated. (or FPA) 117 (or 2)	ake it bigger, nents" section alent statem rt, Performat in the histor ated four time	as it will on under l ent(s). nce and C	not automation Information Inema and Derformance and if the to	atically n about ee and opic is				
	EFFECTIVE TERM AND YEAR FOR CHANGES Fall, Spring, Summer and year (please enter in textbox) Fall 2020									
RATIONALE	E (must be in	cluded)								
Performan on art, per standard la	RATIONALE (must be included) Title and description: The old title and description pre-date the establishment of a BA in Art Performance and Cinema Studies. The proposed title and description reflect this new focus on art, performance and cinema studies. The modified description also conforms to the standard language regarding repeatability of courses, and clarifies the number of times course can be repeated for credit.									





TYPE OF CHANGES. Please type 'X' for the appropriate revision(s): Course	COUF	RSE SUBJECT	г СА	NUMBER	430	TITLE	Filmmaki	ing VI	
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). CA 430 (6) - Filmmaking VI 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, 213 (or 237), 318	ТҮРЕ	OF CHANGI	E S. Please typ	e 'X' for the app	oropriate rev	vision(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). CA 430 (6) - Filmmaking VI 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, 213 (or 237), 318			I	Units \square Prerequisite \boxtimes					
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). CA 430 (6) - Filmmaking VI 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 <u>cinema video</u> studies (CA (or FPA) 135, 136, 137, 186, 235, 236, <u>213 (or 237)</u> , <u>318</u>	Title			Description			-		
FPA 430 may not take this course for further credit.	The Student open process of cine (or 3)	ate added or so, drag the end. Please revolute for course confict course confict that for a dents are expensed at the two to sent a complex perimental cicipation will pleas. Prerequence of the course of the cours	new text using adpoint of the view the "Equipments of the mponents of the making VI at two term proceeds to part erms. Student eted script (for film) prior to all be determinated film making view of the moroved film making ite: CA (or Indies (CA (or Indies (Indies (CA (or Indies (Indies (In	e text box to may ivalency statent box to may ivalency statent changing equivations of the rest seeking entry or a drama) or a drama) or a drama) or a drama or a drama or significant firm FPA) 149, 186, FPA) 135, 136, or 436) plus pr	you need to on the it bigger, nents" section alent statements and properties of the items of the	or video one or murse are oosal (for instructed vised the in addition 10 units 25, 236, 2	production ore project required to a document student's or. This coulat film on to require in film or 13 (or 237)	n the box atically n about n. ts o ntary urse is red	
			t be included)					
Fall 2020 RATIONALE (must be included)	Prer	Description: modified to reflect new SCA focus on "cinema studies" Prerequisites: modified to reflect course code modifications, and new SCA focus on "cinema studies".							
RATIONALE (must be included) Description: modified to reflect new SCA focus on "cinema studies" Prerequisites: modified to reflect course code modifications, and new SCA focus on "cinema"									



COURSE SU	ВЈЕСТ	CA	NUMBER	436	TITLE	Advanced Video Stu	d Seminar in Film and Idies	i
түре оғ сн	IANGES	. Please type	e 'X' for the app	oropriate rev	vision(s):			
Course number		Ţ	Units		Pre	requisite	\boxtimes	
Title		I	Description			uivalent atement	\boxtimes	
indicate add allows, drag expand. Plea specific cour CA 413436 Features in criticism a theories of be repeate FPA) 436 r	ed or not the end ise reviews - Advantensive nd aestle narratid once the nay not	ew text using point of the ew the "Equiponents if clared Seminal estudy and anetics. Examinates if the extension of the exten	FS. Indicate degunderline. If text box to ma valency stater hanging equivars in Film and analysis of selection in the topic is diffurse for further (or 335) or CA	you need to ake it bigger, nents" sectional cinema video Cinema video Cinema vork of specinational cinema credit.	enter mo as it will on under ent(s). a Studies n film the ific direct emas, etc nts with	re text that not autom (information) (4) eory, historiors or periors or periors course credit for C	n the box natically n about ry, iods; se can	
EFFECTIVE TERM AND YEAR FOR CHANGES Fall, Spring, Summer and year (please enter in textbox) Fall 2020								
RATIONALE	(must	be included)						
Performan on cinema	ce and (studies	Cinema Stud . The modific	ies. The propo ed description	sed title and also confort	l descript ns to the	ion reflect standard l	nt of a BA in Art this new focus anguage can be repeated	
Prerequisites: modified to reflect course code modifications.								





COURSE SUE	JECT E	BISC NUMBER	204	TITLE Introduction to Ecology							
TYPE OF CHA	TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):										
Course number x		Units		Prerequisite \square							
Title		Description		Equivalent ⊠ Statement							
indicate added allows, drag th expand. Please specific course	or new to e endpoin review th compone	ext using <u>underline</u> . If at of the text box to mane "Equivalency stater ents if changing equiv	you nee ake it big nents" s alent sta	changed text using strike through, d to enter more text than the box ager, as it will not automatically ection under Information about atement(s). - course for further credit.							
EFFECTIVE TO	DM AND	WEAR FOR GWANGE									
		YEAR FOR CHANGES lyear (please enter in)							
Fall 2020											



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	J BJECT PH	HYS NUMBER	120	TITLE Mechanics and Modern Physics						
TYPE OF CH	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 <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).										
rotational aphysics. Pr minimum adepartment 100 final ex 150 or 151 PHYS 132.	A general calculus-based introduction to mechanics. Topics include translational and rotational motion, momentum, energy, gravitation, and selected topics in modern physics. Prerequisite: BC Principles of Physics 12 or PHYS 100 or equivalent, with a minimum grade of C This prerequisite may be waived, at the discretion of the department, as determined by the student's performance on a regularly scheduled PHYS 100 final exam. Please consult the physics advisor for further details. Corequisite: MATH 150 or 151 or 154 must precede or be taken concurrently. Recommended corequisite: PHYS 132. Students with credit for PHYS 101, 125 or 140 may not take this course for further credit. Quantitative/Breadth-Science.									
EFFECTIVE TERM AND YEAR FOR CHANGES Fall, Spring, Summer and year (please enter in textbox)										
	RATIONALE (must be included)									
enhances the wording re	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.									





COURSE SU	ВЈЕСТ	PHYS	NUMBER	121	TITLE	Optics, Magnet	Electricity and cism		
TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):									
Course number		Un	its		Prer	equisite	\boxtimes		
Title		De	scription		_	uivalent atement			
indicate adde allows, drag t expand. Pleas	WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using strike through, indicate added or new text using <u>underline</u> . If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under <u>Information about specific course components</u> if changing equivalent statement(s).								
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 7 Fall, Spring, S)				
Fall 2020									
RATIONALE	(must be	included)							
enhances th wording rea	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	BJECT PH	YS NUMBER	125	TITLE	Mechar Relativ	nics and Special ity			
TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):									
Course number		Units □ Prerequisite ⊠							
Title		Description			iivalent itement				
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 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)								
personal del si contraction del	RATIONALE (must be included)								
Rationale: M our first yea course mate	r lab as we fe	o longer offered. W el it enhances their	e would apprecia	like to encour	rage stude erstandin	ents to take g of the			



COURSE SUBJECT	PHYS NUMBE	ER 126	TITLE Electri Light	city, Magnetism and							
TYPE OF CHANGE	TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):										
Course \square	Units	\boxtimes									
Title \square	Description Equivalent Statement										
indicate added or rallows, drag the en expand. Please revise specific course com An enriched cour and mathematics wave particle dua sophisticated treat permission of the corequisite: PHY	IPTION EDITS. Indicate of the text using underline. In a spoint of the text box to not ew the "Equivalency state ponents if changing equivalence in electromagnetism for Classical topics such as well ity and the birth of Quantitative and the corequisite (S 133. Students with crest credit. Quantitative.	If you need to make it bigger, ements" section ivalent statements with waves, electricatum Mechanicatist year cours: MATH 126 or	enter more text the as it will not autor in under Information ent(s). The good preparation ity and magnetism its, will be given a reses. Prerequisite: In MATH 152. Reco	an the box matically on about on in physics n, as well as much more PHYS 125 or mmended							
Fall, Spring, Summe Fall 2020 RATIONALE (must Rationale: MATH	RATIONALE (must be included) Rationale: MATH 126 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 S	UBJECT [PHYS NUMBER	132	TITLE Physics Laboratory I					
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).									
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.									
		YEAR FOR CHANGES d year (please enter in)					
Fall 2020									
RATIONALI	E (must be i	ncluded)							
Rationale:	PHYS 130 a	and PHYS 131 are no lo	nger off	ered and are being deleted.					





COURSE SU	ІВЈЕСТ [PHYS NUMBER	133	TITLE Physics Laboratory II		
TYPE OF CH	ANGES. Plo	ease type 'X' for the ap	oropria	te revision(s):		
Course number		Units		Prerequisite ⊠		
Title		Description		Equivalent Statement		
indicate adde allows, drag expand. Pleas	ed or new t the endpoi se review t	ext using <u>underline</u> . If nt of the text box to ma	you neekke it bi nents" s	or changed text using strike through, and to enter more text than the box gger, as it will not automatically section under <u>Information about</u> atement(s).		
experiment designed to ENSC 120 (or 126. Stud	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: F	PHYS 130 a	nd PHYS 131 are no lo	nger of	fered and are being deleted.		



COURSE ST	J BJECT P	HYS NUMBER	233	TITLE Physics Laboratory III			
TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):							
Course number		Units		Prerequisite ⊠			
Title	\boxtimes	Description		Equivalent □ Statement			
indicate add allows, drag expand. Plea specific cour PHYS 233 Statistical context of ENSC 2801	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 280 PHYS 133 or PHYS 141 or ENSC 280, with a minimum grade of C Recommended prerequisite: CMPT 120. Quantitative.						
Fall, Spring, Fall 2020 RATIONALE	EFFECTIVE TERM AND YEAR FOR CHANGES Fall, Spring, Summer and year (please enter in textbox) Fall 2020 RATIONALE (must be included) Rationale: We are reordering our second year labs; PHYS 233 will be the first lab in the						
new seque using Pyth computing	new sequence. This change requires renumbering and change in prerequisites. We will be using Python in the lab and wish to recommend that students complete their first computing course before attempting this course. Grade requirement added explicitly to be consistent with other courses.						



COURSE SU	J BJECT PI	HYS NUMBER	234	TITLE Physics Laboratory IV	
TYPE OF CH	I ANGES. Plea	se type 'X' for the ap	propria	te revision(s):	
Course number	\boxtimes	Units		Prerequisite ⊠	
Title		Description		Equivalent \square Statement	
indicate add allows, drag expand. Plea specific cour PHYS 231 Introduction data acquise PHYS 130, a minimum	ed or new texthe endpoint se review the se componer. Physics Labor to modern sition, electro 133 or 141(r	et using <u>underline</u> . If of the text box to me "Equivalency states its if changing equiveratory III (3) PHYS techniques in experiences, control theory, to substitutions) Coles Students with cree	you need ake it big ments" symmetrical and starperequests	r changed text using strike through, ed to enter more text than the box gger, as it will not automatically section under Information about atement(s). Chysics Laboratory IV (3) physics, including computer-aided tistical data analysis. Prerequisite: aisite: PHYS 233 and PHYS 255, with PHYS 231 may not take PHYS 234	
EFFECTIVE TERM AND YEAR FOR CHANGES Fall, Spring, Summer and year (please enter in textbox) Fall 2020					
	(must be inc		ar labs: 1	PHYS 234 will be the second lab in the	
	nce. This cha			nd change in prerequisites. PHYS 130	





COURSE SU	ВЈЕСТ	PHYS NUMBE	ER 326	TITLE	1	nics and nentation	
TYPE OF CH	ANGES. Plo	ease type 'X' for the a	ppropriate	revision(s):			
Course number		Units		Prere	equisite	\boxtimes	
Title		Description			ivalent tement		
allows, drag texpand. 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). Circuits and circuit theory, passive and active devices, amplifiers, feedback, modern						
with a mini	mum grad	ues and instrumenta e of C Quantitative.	uon. Prere	quisite: PHYS	231 234	and 255,	
		YEAR FOR CHANGE d year (please enter i					
Fall 2020							
RATIONALE	(must be in	ncluded)					
Change of co no need to s	ourse num pecify it h	ber PHYS 231 -> PHY ere.	'S 234. PH'	'S 255 is requ	ired for F	PHYS 234 so	



COURSE SU	вјест Р	HYS NUMBE	R 332W	TITLE	Advanc	ed Physics Lab	oratory I
TYPE OF CH	ANGES. Plea	ase type 'X' for the a	ppropriate	revision(s):			
Course number		Units		Prere	equisite	\boxtimes	
Title		Description			uivalent itement		
indicate adde allows, drag to expand. Please specific course Experiment molecular or biophysical spectroscopt design, open experiment Biological PPHYS 233; 60 CHEM 260, Students with allowing the students with allowing the spectroscopy of the students with allowing the spectroscopy of the students with allowing the students with allowing the students with allowing the students with allowing the specific properties and the students with allowing the students with all the students with al	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							
RATIONALE	(must be in	J cluded)					
alternative	requiremen	PH will be modified ts were provided for HYS 233. PHYS 332	students	in the BIPH a	nd CHPH	programs,	



COURSE SU	ІВЈЕСТ Р	HYS NUMBE	R 365	TITLE Semiconductor Device Physics		
TYPE OF CH	ANGES. Plea	ase type 'X' for the a	ppropriate	e revision(s):		
Course number		Units		Prerequisite 🖂		
Title		Description		Equivalent Statement		
indicate adde allows, drag t expand. Pleas	ed or new te the endpoin se review th	xt using <u>underline</u> . I t of the text box to m	f you need ake it bigg ments" se	changed text using strike through, d to enter more text than the box ger, as it will not automatically ection under Information about tement(s).		
of semicond PHYS 321, 6 380 permis taken concu	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.					
Fall, Spring, S		YEAR FOR CHANGE year (please enter i)		
Fall 2020 RATIONALE	(must be in	cluded)				
PHYS 221 is	s no longer of 380 is not a	offered. PHYS 255 is	required f . Intereste	for PHYS 285, so no need to specify it ed students can request permission		



COURSE SU	J BJECT P	HYS NUMBER	421	TITLE Electromagnetic Waves			
TYPE OF CH	ANGES. Plea	ase type 'X' for the app	propriat	ce revision(s):			
Course number		Units		Prerequisite 🗵			
Title		Description		Equivalent Statement			
indicate add allows, drag expand. Plea	ed or new te the endpoin se review th	xt using <u>underline</u> . If y t of the text box to ma	you nee ke it biş nents" s	c changed text using strike through, d to enter more text than the box gger, as it will not automatically ection under Information about atement(s).			
with matte propagatio refraction 321 (no su Students w	A continuation of PHYS 321: properties of electromagnetic waves and their interaction 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							
RATIONALE	(must be in	cluded)					
	and 425 werent with othe		ago. Gr	ade requirement added explicitly to			





COURSE SU	BJECT P	HYS 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		
indicate adde allows, drag t expand. Pleas	d or new te he endpoin e review th	xt using <u>underline</u> . If t of the text box to ma	you nee ike it big nents" s	changed text using strike through, d to enter more text than the box gger, as it will not automatically ection under Information about stement(s).		
coherence, i advanced to Prerequisite	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 offered.						





COURSE ST	J BJECT PH	YS NUMBER	465	TITLE Solid State Physics		
TYPE OF CH	I ANGES. Pleas	e type 'X' for the ap	propriate	e revision(s):		
Course number		Units		Prerequisite ⊠		
Title		Description		Equivalent \square Statement		
indicate add allows, drag expand. Plea	ed or new text the endpoint o se review the	using <u>underline</u> . If of the text box to ma	you need ake 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).		
band theor	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 incl	ıded)				
Adding CHI	EM 364 as a su	itable pre-requisite	. .			





COURSE SUI	ВЈЕСТ [PHYS NUMBER	490	TITLE General Relativity and Gravitation		
TYPE OF CHA	NGES. Ple	ase type 'X' for the ap	propriate	e revision(s):		
Course number		Units		Prerequisite ⊠		
Title		Description		Equivalent □ Statement		
indicate added allows, drag the expand. Please specific course Gravity and holes, 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.					
		YEAR FOR CHANGES lyear (please enter in				
RATIONALE (torosta d	students (s. z. MATH) to seed		
permission.	s no longer	onereu, encourage in	nerested (students (e.g. MATH) to seek		