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Canada V5A 1S6

MEMORANDUM

ATTENTION

Senate

Wade Parkhouse, Chair

Senate Committee on

Undergraduate Studies

RE:

FROM

Course Changes (SCUS 19-70)

December 6, 2019

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Sta Douse

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 number Title WORDING/DI ndicate added	ESCRIPTION or new text the endpoint of the review the	using <u>underline</u> . If of the text box to ma	□ eleted or o	revision(s): Prerequisite Equivalent Statement changed text using strike through, to enter more text than the box ger, as it will not automatically
number Title WORDING/DI	or new text e endpoint of review the	Description NEDITS. Indicate description using underline. If the text box to ma	you need	Equivalent Statement changed text using strike through, to enter more text than the box
WORDING/DI ndicate added	or new text e endpoint of review the	NEDITS. Indicate de using <u>underline</u> . If of the text box to ma	you need	Statement changed text using strike through, to enter more text than the box
ndicate added	or new text e endpoint of review the	using <u>underline</u> . If of the text box to ma	you need	to enter more text than the box
expand. Please		s if changing equiv	nents" see	ction under Information about
business pro 15 units. MA' concurrently	blems. Prere TH 150, MA with BUS 2:	equisite: MATH 150 TH 151, MATH 154,	, MATH 1 or MATH edit for E	tistical applications to solve 51, MATH 154, or MATH 157; I 157 may be taken BUEC 232 <u>or ECON 233</u> may
		EAR FOR CHANGES ear (please enter in		
Fall 2020				
RATIONALE (1	nust be inclu	uded)		
take either of of their progr	f ECON 233 or ram. BUS 232 on their inte	or BUS 232 and still 2 focuses on Excel a	be equip and 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 SUI	BJECT CA	NUMBER	117	TITLE Visual Art and Culture I				
TYPE OF CH	ANGES. Please	ype 'X' for the ap	propriate	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 <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 117 - Vi	sual Art and Cul	ture I -Modern Ar	t History	(3)				
approaches national, ar	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.							
		R FOR CHANGES r (please enter in						
Fall 2020		· (produce context of						
RATIONALE	(must be includ	ed)						
The propos (modern) o	ed title better co f this course.	ommunicates the	content (art history) and the temporal period				
				3				





COURSE SU	вјест Сл	NUMBER	118	TITLE Visual Art and Culture II
TYPE OF CH	IANGES. Ple	ase type 'X' for the ap	propriat	re revision(s):
Course number		Units		Prerequisite
Title		Description		Equivalent \square Statement
indicate addallows, 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 nee ake it big nents" s	r 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).
the artists, meanings of feminism,	artworks, n of art. The c and the ava	novements, and disco debates of modernism nt-garde will be syste	ourses th , postm ematical	ry to the present, with attention to at redefined the functions and odernity, postcolonialism, ly explored. Students with credit for ner credit. Breadth-Humanities.
		YEAR FOR CHANGES I year (please enter in)
RATIONALE	6570			
The propos (contempo	sed title bett rary) of this	er communicates the course.	content	(art history) and the temporal period



Page 1 of 1

COURSE SUB	JECT	CA	NUMBER	227	TITLE		of Dance from the 2 to the Present
TYPE OF CHAN	NGES. P	lease type 'X'	for the app	ropriate re	evision(s):		
Course number	\boxtimes	Uni	its		Prere	quisite	
Title		Des	scription			ivalent tement	
wording/DE indicate added allows, drag the expand. Please specific course CA 127 227 (3) Study of the d the beginning seminal dance western theat students in de with credit for Breadth-Hum	or new e endpo review compo 3) Histo evelop of the e artists cre dance epartmer CA (or	text using unbint of the text the "Equivalents if changer or yof Dance for ment of mode 20th century and the important for the course ents across the FPA 227 m.	t box to make to the presence are their wo e may be of the University ay not take	ou need to ke it bigger ents" secti lent staten h Century t and the refo ent. Empha ork has had particular y. Prerequi	enter more, as it will non under Innent(s). To the Presermation of asis will be plupon the a interest to site: 12 cre	e text than ot autom iformatio nt the ballet blaced on rt form ir a range o dits. Stud	n the box atically n about from f
EFFECTIVE TE Fall, Spring, Sun Fall 2020				extbox)			
This course is the School for content and le	the Cor	ntemporary A					

RATIONALE (must be included)



Page 1 of 1

COURSE SU	ВЈЕСТ	A NUMBER	237		ed Topics in Film and Studies
TYPE OF CI	HANGES. Ple	ase type 'X' for the ap	propriat	e revision(s):	
Course number	\boxtimes	Units		Prerequisi	te 🗵
Γitle	\boxtimes	Description		Equivaler Statemer	
expand. Plea	ase review tl	nt of the text box to man ne "Equivalency staten ents if changing equiv	nents" se	ection under Informa	tion about
CA <u>213</u> 23	7 - Selected	Γopics in Film and Vid	eo <u>Cinen</u>	<u>1a</u> Studies (3)	
studies no	t covered in	a specific topic within depth in regularly sch l <u>once</u> for credit if a di	eduled o	ourses. The course r	nay This
Students v	vith credit fo	or CA (or FPA) 237 ma	y not tak	e this course for furt	her
Prerequisi	te: 3 units ir	ı film studies (CA (or F	PA) 135	, 136, 137, 186, 235,	236, <u>318</u>

EFFECTIVE TERM AND YEAR FOR CHANGES

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

(or 335), 313 (or 337), 436) or 30 units. Breadth-Humanities.

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.





CA NUMBER	270	TITLE Production Ensemble I					
Please type 'Y' for the any	ropriato ro	vicion(c).					
Units		Prerequisite					
Description		Equivalent Statement					
WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using strike through, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under Information about specific course components if changing equivalent statement(s). Students 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 particular interest to students in other departments. May repeat for credit. Prerequisite: CA (or EPA) 170							
Prerequisite: CA (or FPA) 170. EFFECTIVE TERM AND YEAR FOR CHANGES Fall, Spring, Summer and year (please enter in textbox) Fall 2020 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.							
	Units Description PTION EDITS. Indicate desw text using underline. If you point of the text box to make the "Equivalency statem ponents" if changing equivalents a basic familiarity with extin-depth theoretical and theatre, dance and music is and through practicum st to students in other description (or FPA) 170. IND YEAR FOR CHANGES and year (please enter in the included) Determine the included of the provide significantly different to the prov	Description PTION EDITS. Indicate deleted or charge we text using underline. If you need to expoint of the text box to make it bigger, ew the "Equivalency statements" section points if changing equivalent statements if changing equivalent statements are basic familiarity with elements of in-depth theoretical and practical exponents in other departments are and through practicum work on post to students in other departments. (or FPA) 170. IND YEAR FOR CHANGES and year (please enter in textbox) Determine the included) Outprovide significantly different opportunity of the included o					





COURSE SU	J BJECT CA	NUMBER	271	TITLE Production Ensemble II					
түре оғ сн	ANGES. Pleas	se type 'X' for the app	ropriate	revision(s):					
Course number		Units		Prerequisite					
Title		Description	\boxtimes	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 <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).								
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.								
	EFFECTIVE TERM AND YEAR FOR CHANGES Fall, Spring, Summer and year (please enter in textbox)								
Fall 2020									
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	вјест са	NUMBER	312		elected Topic ulture Studie		
TYPE OF CI	IANGES. Plea	se type 'X' for the ap	propriate re	vision(s):			
Course number		Units		Prerec	quisite 🗆		
Title	\boxtimes	Description			valent \square ement		
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 312 - Selected Topics in Art and Performance Culture Studies (3) Investigates a selected thematic topic in art and performance culture studies, for example, postcolonial theory and the arts; perception and embodiment; art activism and resistance; or urban art and culture. May repeat for credit. This course can be repeated twice for credit if the topic is different. Prerequisite: 45 units.							
		YEAR FOR CHANGES year (please enter in			v		
RATIONALI	E (must be inc	cluded)					
Studies. Th		ates the establishment itle (and modified de					
		o the standard langu times course can be r			lity of course	s, and	



COURSE SUBJECT	CA	NUMBER	314	TITLE Readings in the History Art and Culture					
TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):									
Course \square	Units \square Prerequisite \square								
Title ⊠	De	scription	\boxtimes		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 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).									
					- 				
EFFECTIVE TERM AND YEAR FOR CHANGES Fall, Spring, Summer and year (please enter in textbox) Fall 2020 RATIONALE (must be included)									
The old title and des Cinema Studies. The performance and cir	scription pre- proposed tit nema studies iption also cla	le and descr arifies the nu	iption reflec	t this nev	se can be repeated for				



COURSE SUBJECT	ГСА	NUMBER	317	TITLE	Introduct Studies	ion to Performance
TYPE OF CHANGI	E S. Please type	'X' for the app	oropriate rev	vision(s):		
Course Number	Į	Jnits	\boxtimes	Prei	equisite	
Title	Γ	Description			uivalent atement	
indicate added or allows, drag the er expand. Please revenue specific course corrections of the course the intercent and methods to performance. Proceedings of the Course this topic may not (or FPA 317) may	ndpoint of the triew the "Equivariem the "Equivariem the "Equivariem the Introduction to disciplinary or dear on dance, erequisite: 45 portemporary A or take this cou	text box to may alency statem anging equivalence of Performance igins of performusic, theatre units including arts. Students varse for further	ke it bigger, nents" section alent statements studies (4) mance studies, performants one history with credit. Studier credit. Studies	as it will n under I ent(s). (3) es and br nce art, ar y/theory or CA (or dents with	not automa nformation rings its con nd media course with FPA) 311 u	ncepts hin the under
FECTIVE TERM l, Spring, Summ all 2020			textbox)			
RATIONALE (mus	t be included)					
We request chan introductory lect division students	ure, the conter	a 3 rd level cou nt and delivery	rse to a 2 nd lo	evel cour se are be	se because tter suited	as an to lower
Because the cour changing the nuncourse offerings.	se will now be nber of units fr	recognized as om 4 to 3, in k	a lower-div seeping with	rision offe our equi	ering, we re valent 2 nd y	equest year lecture



COURSE SU	J BJECT C	A NUMBER	325	TITLE Special Project in Dance Composition (3)
TYPE OF CH	ANGES. Plea	se type 'X' for the app	propriate r	evision(s):
Course number		Units		Prerequisite
Title		Description	X	Equivalent Statement
A specific Students v analysis, d in CA (or I	se review the se componer topic or set will create o lepending o FPA) course	e "Equivalency staten ats if changing equiva- of ideas will form to the or more works a the particular top s. May be repeated	nents" sect alent stater he basis fo and partic vic in a giv twice for	r, as it will not automatically ion under Information about ment(s). or choreographic exploration. ipate in research and critical en term. Prerequisite: 40 units credit if the topic changes. course for further credit.
		EAR FOR CHANGES year (please enter in	textbox)	
Description	: modified to	clarify the number o	f times the	course can be repeated for credit.
RATIONALE	(must be inc	luded)		



COURSE SUBJE	ECT CA	NUMBER	335	TITLE Introdu	action to Film Theory					
TYPE OF CHAN	TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):									
Course number		Units		Prerequisit	e ⊠					
Title		Description		Equivalen Statemen						
indicate added of allows, drag the expand. Please is specific course of the course is phenomenon of individual film terms of cineminterest to sture. Prerequisite: Secommended	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, 213 (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									
	EFFECTIVE TERM AND YEAR FOR CHANGES Fall, Spring, Summer and year (please enter in textbox)									
RATIONALE (m	RATIONALE (must be included)									
Studies. The pr	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.									
	er: The propose and Cinema Stu		ndicates th	at the course is tau	ght within the Art					
Prerequisites:	modified to re	flect course cod	e modifica	tions.						



COURSE SUBJE	ECT CA	NUMBER	337	TITLE	Intermediate Selected To in Film and Video Studies	
TYPE OF CHAN	NGES. Please typ	pe 'X' for the app	oropriate rev	vision(s):		
Course number		Units		Prei	requisite 🗵	
Title		Description	\boxtimes	1.7	uivalent 🛭	
indicate added allows, drag the expand. Please specific course CA 313 337In An intermedia topics. This cowith credit for Prerequisite:	or new text using endpoint of the review the "Equence components if termediate Selectors in critical course can be reported for FPA) 3:	ng <u>underline</u> . If y e text box to ma uivalency staten changing equiva ected Topics in I itical studies in g	you need to oke it bigger, nents" sectionalent statements and Video cinema film and this course	enter mo as it will n under I ent(s). eo Cinem addressir copic is di for furthe	ng a variety of ifferent. Students er credit.	
EFFECTIVE TEI Fall, Spring, Sun Fall 2020		g : g : a : a : a : a : a : a : a : a :	textbox)			
RATIONALE (m	nust be included	i)				
Title: The old Studies. The p	title predates th roposed title re	ne establishmen eflects this new f	t of a BA in A focus on cine	Art, Perfo ema studi	rmance and Cinema es.	
Course number Performance,	er: The propose and Cinema Stu	d course code ir idies area.	ndicates that	the cour	se is taught within the Art	
Description: n	nodified to clari	fy the course's r	epeatability			
Prerequisites:	modified to pro	ovide a simpler	and clearer p	oath.		



Page 1 of 1

COURSE SU	J BJECT CA	NUMBER	389	TITLE Selected Topics in the Fine at Performing Arts II (3)
TYPE OF CH	ANGES. Pleas	se type 'X' for the ap	propriate	revision(s):
Course number		Units		Prerequisite
Title		Description		Equivalent \square Statement
allows, drag sexpand. Please specific course. A specific depth in rearts discipe two, dependent of the course.	ed or new texthe endpoint se review the se component topic in fine egular cours line. The wonding on the A) courses. M	t using underline. If of the text box to ma "Equivalency statents if changing equivalend performing ares and which is no ork will be practical particular topic in	you need ake it bigg nents" se alent stat ts which t approp l, theore a given r interes	ris not otherwise covered in oriately placed within a single tical, or a combination of the term. Prerequisite: 30 units of t to students in other
		EAR FOR CHANGES ear (please enter in		
Description	: modified to	clarify the number o	f times th	ne course can be repeated for credit.

RATIONALE (must be included)





COURSE SUBJ	ECT CA	NUMBER	412W	TITLE		d Seminar in Art are Studies
TYPE OF CHA	NGES. Please ty	pe 'X' for the ap	propriate re	vision(s):		
Course number		Units		Prei	requisite	\boxtimes
Title		Description	\boxtimes		quivalent catement	
indicate added allows, drag the expand. Please specific course CA 412W - A Provides an intopic in art at research lead seminars. To times for creparticular intopicular intopi	e endpoint of the review the "Equation and components" if dvanced Seminal in-depth investigned culture perfolding to a substarpics will vary fredit if the topic is terest to students; and one of CA iting.	ng underline. If the text box to make uivalency states changing equivalent in Art and Gulon artin Art and Gulon artin Art and Gulon artin	you need to ake it bigger, nents" section alent statem ture Perfore ted theoretic . This course ell as directe different top rtments. Pre	enter mo , as it will on under lent(s). mance Stu cal, histore requires ed reading e may be reprised are of	re text that not autom (nformation) dies (4) rical or there independe g preparation repeated for fered. May	matic ent ion for be of er
	ERM AND YEAR mmer and year					
RATIONALE (r	nust be included	d)				
Performance on art and pe	cription: The old and Cinema Studi rformance studi arding repeatab credit.	dies. The propo ies. The modifie	sed title and d description	l descripti n also con	ion reflect of	this new focus ne standard
Prerequisites	: modified to ref	flect course code	e modificatio	ons.		



COURSE SUBJE	CA CA	NUMBER	414	TITLE	Advanced of Art and	l Topics in the Hist l Culture
TYPE OF CHAN	IGES. Please ty	pe 'X' for the ap	propriate rev	vision(s):		
Course number		Units		Prei	requisite	
Title		Description			quivalent catement	
An in-depth ir cinema and cu	or new text usice endpoint of the review the "Equation of the components of the review the "Equation of the review text and the review text is a contract to the review text in the review text is a contract to the review text in the review text is a contract to the review text in the review text is a contract to the review text in the review text in the review text is a contract to the review text in the revie	ng <u>underline</u> . If e text box to ma uivalency staten	you need to enter it bigger, nents" sectionalent statement, Performant in the history	enter mo as it will n under l ent(s). nce and C y of art, r es for cre	re text than not automa Information Cinema and Derformance additif the to	e and
EFFECTIVE TEI Fall, Spring, Sun Fall 2020						
RATIONALE (m	ust be included	i)				
Performance a on art, perforr standard lang	and Cinema Stu nance and cine	I title and descr dies. The propo ma studies. The repeatability of edit.	sed title and modified des	descripti scription	ion reflect t also confo	this new focus rms to the





COURSE SUI	вјест С	A NUMBER	430	TITLE Filmmaking VI
туре ог сн	ANGES. Ple	ease type 'X' for the ap	propriat	te revision(s):
Course number		Units		Prerequisite ⊠
Title		Description		Equivalent \square Statement
indicate adde allows, drag expand. Plea specific cour. CA 430 (6) The first has students and during the present a cor experim participatic open only to production lab fees. Present and the	ed or new to the endpoir se review the se component. - Filmmaking alf of a two to re expected two terms. completed se ental film) point will be de- tro approved will probale	ext using underline. If of the text box to me "Equivalency statements" if changing equivalents if changing equivalents or participate in the restrict (for a drama) or prior to enrolment. The termined in consultate of the priors of the prior	ced film realization with s should nancial c, 231, 285	and/or video production. on of one or more projects his course are required to I proposal (for a documentary nature of each student's h the instructor. This course is be advised that film costs in addition to required 5 and 10 units in film or
(or 335), 3	13 (or 337)		rior appi	36, 235, 236, <u>213 (or</u> 237 <u>)</u> , <u>318</u> roval. Students with credit for
		YEAR FOR CHANGES		()
Fall 2020	Convert has be			
Description		to reflect new SCA foc	us on "ci	inema studies"
				ications, and new SCA focus on "cinema





COURSE SU	JBJECT	CA	NUMBER	436	TITLE	Advanced Video Stu	d Seminar in Film Idies
TYPE OF C	HANGES.	Please ty	pe 'X' for the ap	propriate r	evision(s):		
Course number	⊠		Units		Pre	requisite	
Title	\boxtimes		Description			quivalent tatement	
CA 41343 Features criticism theories of be repeat FPA) 436	ease reviewed as a complete co	w the "Eq conents if nced Semi study and etics. Exa vity; parti- or credit <u>i</u> take this o	ne text box to may uivalency stater of changing equivalency and the changing equivalence of analysis of selection of the topic is difference for further the course for further the cou	nents" sect. alent stater Video Cine ected topics work of spe national cirerent. Studer credit.	ion under ment(s). ma Studies s in film the cific direct nemas, etc lents with	Informations (4) eory, historetors or perions. This cours	n about Ty, Tods; se can
	, Summer		FOR CHANGES (please enter in				
RATIONAL	E (must b	e include	d)				
Performa on cinema	nce and C a studies. repeatab	inema Stu The modi	idies. The propo fied description	osed title ar also confo	nd descript rms to the	tion reflect standard la	
Prerequis	ites: mod	ified to re	eflect course cod	le modificat	tions.		





TYPE OF CHANGES. Please type 'X' for the appropriate revision(s): Course	4 TITLE Introduction	204	NUMBER	CT BISC	COURSE SUBJE
number x 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).	iate revision(s):	propriat	type 'X' for the ap	ES. Please ty	TYPE OF CHAN
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).	Prerequisite \square		Units		number
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).			Description		17.7
	eed to enter more text than the bigger, as it will not automatica section under Information about the statement(s).	you need ke it big nents" se alent sta	using <u>underline</u> . If f the text box to ma Equivalency staten if changing equiva	new text us endpoint of t eview the "Ecomponents i	indicate added o allows, drag the expand. Please re specific course c
EFFECTIVE TERM AND YEAR FOR CHANGES Fall, Spring, Summer and year (please enter in textbox) Fall 2020	ox)	textbox)	. ಇದು ಸ್ಕೃತ್ತ. ಅನ್ನ ಸರ್ವಾಸವಾಗಿ ಸಮಾರ್ವವಾಗಿ ಸಮಾರ್		Fall, Spring, Sum



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	BJECT P	HYS NUMBE	R 120	TITLE Mechanics and Modern Physic
TYPE OF CHA	ANGES. Plea	se type 'X' for the a	ppropriate	e revision(s):
Course number		Units		Prerequisite ⊠
Title		Description		Equivalent Statement
indicate adde allows, drag t expand. Pleas	d or new tex he endpoint se review the	kt using <u>underline</u> . I of the text box to n	f you need nake it bigg ements" se	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).
rotational n physics. Pre minimum g department 100 final ex 150 or 151 PHYS 132.	notion, mome requisite: B rade of C T t, as determi am. Please c or 154- must Students wit	entum, energy, grade Principles of Physologies of Physologies of Physologies of Physics of Physics of Physics of Precede or be take	vitation, and sics 12 or Figure 14 or Figure 12 or Figure	Topics include translational and and selected topics in modern PHYS 100 or equivalent, with a red, at the discretion of the sance on a regularly scheduled PHYS or further details. Corequisite: MATH rently. Recommended corequisite: r 140 may not take this course for
Fall, Spring, S	ummer and	EAR FOR CHANGE year (please enter i	750)
enhances th	ve would like eir apprecia noved – Cor	e to encourage stud tion and understan	ding of the	ke our first year lab as we feel it e course material. Redundant se must precede or be taken





COURSE SU	ВЈЕСТ	PHYS	NUMBER	121	TITLE	Optics, Magnet	Electricity and cism
TYPE OF CHA	ANGES. I	Please type 'X'	for the ap	propriat	e revision(s):		
Course number		Uni	its		Prer	equisite	
Title		Des	scription			uivalent atement	
wording/D indicate adde allows, drag to expand. Pleas specific cours	d or new he endp e review	text using <u>un</u> oint of the tex the "Equivale	<u>iderline</u> . If t box to ma ency stater	you nee ake it big nents" s	d to enter mor gger, as it will ection under I	re text tha	an the box natically
electricity, r Prerequisite a minimum or be taken	nagnetis e: PHYS 1 grade (concurre 2, 126 o	om, simple circ 120 or 125 or of B a grade of ently. Recomi r 141 may not	cuits, optic 140, with f A or B) . C mended co	s and to a minin orequisi orequis	pics from appl	ied physicon Plant or 155-m Student	HYS 101, with
EFFECTIVE T Fall, Spring, So					r)		
Fall 2020							
RATIONALE (
enhances th wording ren	eir appr noved -	eciation and u Corequisite m	inderstand leans that t	ing of th	ke our first ye ie course mate se must prece be consistent	erial. Redu de or be t	andant aken





COURSE SU	вјест Р	HYS NUMBER	125	TITLE Mechanics and Special Relativity
TYPE OF CHA	NGES. Plea	ase type 'X' for the app	propriat	te revision(s):
Course number		Units		Prerequisite ⊠
Title		Description		Equivalent Statement
indicate adde allows, drag tl expand. Pleas	d or new te ne endpoin e review th	xt using <u>underline</u> . If t of the text box to ma	you nee ike it big nents" s	r changed text using strike through, ed to enter more text than the box gger, as it will not automatically section under <u>Information about</u> atement(s).
mathematic dynamics ar in our other MATH 125 c	s. Special re id conserva first-year c + MATH 15	elativity and classical tion laws will be give ourses. Prerequisite: 1. Recommended co	topics s n a muc Permiss requis	good preparation in physics and such as translational and rotational ch more sophisticated treatment than sion of the department. Corequisite: site: PHYS 132. Students with credit 125 for further credit. Quantitative.
	ımmer and	YEAR FOR CHANGES year (please enter in		k)
	r lab as we			d like to encourage students to take iation and understanding of the





COURSE SU	ВЈЕСТ	PHYS NUMBER	126	TITLE	Electric Light	city, Magnetism an
TYPE OF CH	ANGES. F	Please type 'X' for the ap	propria	te revision(s):		
Course number		Units		Prere	equisite	
Title		Description			ivalent tement	
allows, drag sexpand. Please specific course. An enriched and mather wave partice sophisticate permission corequisite.	ed or new the endpose review se composed course in matics. Cl tele duality ed treatm of the de	rion EDITS. Indicate de text using <u>underline</u> . If pint of the text box to may the "Equivalency statements if changing equivalency in electromagnetism for assical topics such as way and the birth of Quantument than in our other firepartment. Corequisite: #133. Students with credited it. Quantitative.	you nee nke it bi nents" s alent sta student aves, ele um Mec st year	ed to enter mor gger, as it will rection under Ir atement(s). ts with good prectricity and machanics, will be goourses. Prerected or MATH 15	e text that not autom aformation eparation agnetism, given a mulisite: P. 52. Recor	n the box natically on about n in physics as well as nuch more HYS 125 or nmended
Fall, Spring, S Fall 2020 RATIONALE	ummer a	D YEAR FOR CHANGES and year (please enter in included) 6 is no longer offered. W	textbox		rage stud	ents to take
our first yea	ar lab as v	we feel it enhances their	apprec	iation and unde	erstandin	g of the





TYPE OF CI	IANGES. Pl	ease type 'X' for the app	propriate	revision(s):
Course number		Units		Prerequisite ⊠
Title		Description		Equivalent Statement
xnano Piez				
Introducti experimer and enrich	on to experital design.	ents if changing equiva- imental physics with ar Includes elementary ex l learning. Corequisite:	alent state n emphasi periment PHYS 101	ement(s). is on measurement and is in mechanics designed to support or 120 or 125. Students with 32 for further credit. Quantitative.
Introducti experimer and enrich credit for	on to experital design. conceptua PHYS-130, 1	ents if changing equiva- imental physics with ar Includes elementary ex l learning. Corequisite:	n emphas periment PHYS 101	ement(s). is on measurement and s in mechanics designed to support t or 120 or 125. Students with
Introducti experimer and enrich credit for l EFFECTIVE Fall, Spring,	rse componion to experital design. I conceptual PHYS-130, 1	imental physics with ar Includes elementary ex I learning. Corequisite: 31, or 140 may not tak	n emphas periment PHYS 101	ement(s). is on measurement and s in mechanics designed to support t or 120 or 125. Students with





COURSE SU	BJECT PI	HYS NUMBER	133	TITLE Physics	Laboratory II		
TYPE OF CHA	ANGES. Plea	se type 'X' for the ap	propriat	e revision(s):			
Course number		Units		Prerequisite	\boxtimes		
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).							
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 inc	ludad)					
			nger offe	ered and are being dele	ted.		



NUMBER 233 TITLE | Physics Laboratory III **COURSE SUBJECT** PHYS **TYPE OF CHANGES.** Please type 'X' for the appropriate revision(s): Course Units number Title X 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). 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) Rationale: We are reordering our second year labs; PHYS 233 will be the first lab in the

Rationale: We are reordering our second year labs; PHYS 233 will be the first lab in the 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	propriat	te revision(s):			
Course number		Units		Prerequisite ⊠			
Title		Description		Equivalent Statement			
indicate add allows, drag expand. Plea	WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using strike through, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under Information about specific course components if changing equivalent statement(s).						
PHYS 231 - Physics Laboratory III (3) PHYS 234 - Physics Laboratory IV (3) Introduction to modern techniques in experimental physics, including computer-aided data acquisition, electronics, control theory, and statistical data analysis. Prerequisite: PHYS 130, 133 or 141(no substitutions) CoPrerequisite: PHYS 233 and PHYS 255, with a minimum grade of C Students with credit for PHYS 231 may not take PHYS 234 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	luded)					
Rationale: No new sequentis no longer	nce. This chai	ering our second yea nge requires renumb	r labs; I ering ar	PHYS 234 will be the second lab in the and change in prerequisites. PHYS 130			





COURSE SU	вјест	PHYS NUMBER	326	TITLE Electronics and Instrumentation			
TYPE OF CH	ANGES. Ple	ease type 'X' for the ap	propriate rev	ision(s):			
Course number		Units		Prerequisite 🗵			
Title		Description		Equivalent Statement			
indicate adde allows, drag t expand. Pleas specific cours Circuits and measureme	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 234 234 and 255, with a minimum grade of C Quantitative.						
		YEAR FOR CHANGES d year (please enter in					
RATIONALE	(must be ir	l acluded)					
Change of co	ourse num specify it he	ber PHYS 231 -> PHYS ere.	234. PHYS 25	55 is required for PHYS 234 so			



COURSE SU	IBJECT [PHYS NUMBE	R 332W	W TITLE Advanced Physics Laborator	уI			
түре оғ сн	ANGES. Ple	ease type 'X' for the ap	propriate	te revision(s):				
Course number		Units		Prerequisite 🖂				
Title		Description		Equivalent Statement				
Experiment molecular of biophysical spectroscop design, ope experiment Biological FPHYS 233; CHEM 260, Students w	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 included) Rationale: CHPH and BIPH will be modified to require PHYS 233 instead of PHYS 231. The alternative requirements were provided for students in the BIPH and CHPH programs, which did not require PHYS 233. PHYS 332 (without W) has not been offered for > 10 years.								



COURSE SU	J BJECT P	HYS NUMBER	365	TITLE	Semico	nductor Device I	Physics
			-				
TYPE OF CH	IANGES. Plea	se type 'X' for the ap	propriat	e revision(s):			
Course number		Units		Prere	equisite		
Title		Description		•	ivalent tement		
indicate add allows, drag expand. Plea	ed or new tex the endpoint se review the	ON EDITS. Indicate dest using <u>underline</u> . If the text box to make "Equivalency states if changing equivalency equivalency equivalency states if changing equivalency equivale	you need ake it big ments" se	l to enter mor ger, as it will r ection under <u>Ir</u>	e text tha	n the box natically	
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 380 permission 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.							
		YEAR FOR CHANGES year (please enter in)			
Fall 2020							
RATIONALE	(must be inc	· ·luded)					
	C 380 is not a	ffered. PHYS 255 is a useful prerequisite.					



COURSE S	UBJECT PH	HYS NUMBER	421	TITLE Electromagnetic Waves			
TYPE OF CH	IANGES. Plea	se type 'X' for the app	propriat	e revision(s):			
Course number		Units		Prerequisite ⊠			
Title		Description		Equivalent Statement			
allows, drag expand. Pleaspecific country A continuation with matter propagation refraction 321 (no su	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 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.						
EFFECTIVE TERM AND YEAR FOR CHANGES Fall, Spring, Summer and year (please enter in textbox) Fall 2020 RATIONALE (must be included)							
PHYS 324		canceled > 10 years	ago. Gra	ade requirement added explicitly to			





COURSE SUBJE	CT PHYS	NUMBER	455	TITLE Moder	n Optics			
TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):								
Course number		Units		Prerequisite				
Title		Description		Equivalent Statement				
coherence, imagadvanced topic	r new text using the endpoint of the eview the "Equomponents of endpoint of the endpoint of th	ng underline. If ye text box to many ivalency statem changing equivalence ometrical and pland Fourier options, nonlinear optical and posterions, nonlinear optical and pland Fourier optical and Pland F	you need to e ke it bigger, a nents" section alent stateme nysical optics cs, guided wa cics, photonic	nter more text th as it will not autor a under <u>Informati</u>	an the box matically on about ropic media, lected ptics.			
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 S	UBJECT PH	NUMBER NUMBER	465	TITLE Solid State Physics
TYPE OF CH	IANGES. Pleas	se type 'X' for the app	propriat	re revision(s):
Course number		Units		Prerequisite 🗵
Title		Description		Equivalent Statement
indicate add allows, drag expand. Plea specific cour Crystal str band theorem	ed or new tex the endpoint ase review the se componen ucture, lattice	t using <u>underline</u> . If yof the text box to ma "Equivalency staten ts if changing equivations and therestions. Prerequisite:	you nee ake it big nents" s alent sta mal proj	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). perties of solids, free electron model, 35 or CHEM 364, with a minimum
		EAR FOR CHANGES vear (please enter in		c)
RATIONALE	(must be incl	uded)		
Adding CH	EM 364 as a s	uitable pre-requisite	:.	





COURSE SU	BJECT PHY	'S NUMBER	490	TITLE General Relativity and Gravitation			
TYPE OF CHA	ANGES. Please	type 'X' for the app	propriat	te revision(s):			
Course number		Units		Prerequisite ⊠			
Title		Description		Equivalent Statement			
indicate adde allows, drag t expand. Pleas specific cours Gravity and holes, stella 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.							