

OFFICE OF THE ASSOCIATE VICE-PRESIDENT, ACADEMIC

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MEMORANDUM

ATTENTION Senate DATE June 3, 2022

FROM Elizabeth Elle, Vice-Chair PAGES 1/2

Senate Committee on Undergraduate

Studies

RE: Course Changes (SCUS 22-43)

Elmatet Elle

For information:

Acting under delegated authority at its meeting of June 2, 2022 SCUS approved the following curriculum revisions effective Spring 2023.

a. Faculty of Applied Sciences

- 1. School of Engineering Science
 - (i) Prerequisite change for ENSC 180, 251, 252 and 351

b. Faculty of Arts and Social Sciences

- 1. Department of Economics
 - (i) Units change for ECON 233

c. Beedie School of Business

(i) Description and prerequistie change for BUS 450

d. Faculty of Communication, Art and Technology

1. School of Communication

- (i) Temporarily withdraw: CMNS 310, 321, 322, 324, 325, 326, 327, 331, 332, 333, 334, 342, 346, 347, 348, 349, 354, 355, 356, 357, 358 and 359
- (ii) Prerequisite and equivalent statement change for CMNS 304W, 410, 423,424 and 427
- (iii) Prerequisite change for CMNS 362,425, 426, , 431, 432, 433, 437, 440, 443, 444, 445, 446, 447, 452, 453, 454, 455W and 460
- (iv) Title and prerequisite change for CMNS 353

e. Faculty of Science

- 1. <u>Department of Biological Science</u>
 - (i) Deletion of BISC 302, 326, 374, 434, 439 and 440
 - (ii) Prerequisite and equivalent statement change for BISC 430
- 2. Department of Chemistry
 - (i) Prerequisite changes for CHEM 316, 371, 391 and 449

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.



COURSE MODIFICATION FORM

COURSE SU	ВЈЕСТ	ENSC	NUMBER	180	TITLE	Introduction to Engineering Analysis
TYPE OF CHA	ANGES. I	Please type 'X'	for the app	oropriate rev	vision(s):	
Course number		Uni	its		Prere	equisite 🖂
Title		Des	scription		_	nivalent 🗆 itement
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EEEECTIVE 1	FEDM AN	ND YEAR FOR	O CUANCES			
		and year (plea				
Spring 2023	3					



CMPT 128 no longer being offered, we are replacing it with ENSC 151.							





COURSE SU	BJECT EN:	SC NUMBEI	R 251	TITLE Software Design and An for Engineers	alysis
TYPE OF CH	ANGES. Pleas	e type 'X' for the ap	propriate rev	vision(s):	
Course number		Units		Prerequisite ⊠	
Title		Description		Equivalent \square Statement	
allows, drag to expand. Pleas specific cours	ed or new text the endpoint of se review the se component	using <u>underline</u> . If of the text box to m "Equivalency state s if changing equiv ENSC 151 or CMPT	f you need to ake it bigger, ments" sectionalent statem	nged text using strike through, enter more text than the box as it will not automatically on under Information about ent(s). PT 125 and CMPT 127), all	
		EAR FOR CHANGE ear (please enter i	_		
Spring 2023	3				



CMPT 128 no longer being offered, we are replacing it with ENSC 151.						





COURSE SUB	JECT E	NSC	NUMBER	252	TITLE	Fundamentals of Digital Logic & Design
TYPE OF CHAI	NGES. Plea	se type 'X' f	or the app	ropriate revi	sion(s):	
Course number		Unit	S		Prere	equisite 🖂
Title		Desc	cription		_	ivalent 🗆 tement
WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using strike through, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under Information about specific course components if changing equivalent statement(s). Prerequisite: CMPT 128 ENSC 151 or CMPT 125 or CMPT 126 or CMPT 135, with a minimum grade of C ENSC 252 is a required course for all Engineering Science Majors and Honours Students (no course substitutions are permitted). Students with credit for ENSC/CMPT 150 or ENSC 329/MSE 350 cannot take this course for further credit.						
EFFECTIVE TE		_		textbox)		
Spring 2023						



CMPT 128 no longer being offered, we are replacing it with ENSC 151.						

COURSE SU	ВЈЕСТ	ENSC	NUMBER	351	TITLE	Embedded and Real Time System Software	
TYPE OF CHA	ANGES. 1	Please type 'X'	for the app	ropriate revi	sion(s):		
Course number		Uni	its		Prere	equisite 🗵	
Title		Des	scription		_	ivalent 🗆 tement	
indicate adde allows, drag t expand. Pleas specific cours	WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using strike through, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under Information about specific course components if changing equivalent statement(s).						
Prerequisite: (CMPT 128 ENSC 151 and ENSC 215 and ENSC 250) or ENSC 254 or (CMPT 225 and (CMPT 250 or CMPT 295)), all with a minimum grade of C- and a minimum of 60 units. ENSC 351 is a required course for all Engineering Science Major and Honours students (no course substitutions are permitted). Students with credit for or who are concurrently enrolled in ENSC 451/MSE 450 cannot take this course for further credit.							
EFFECTIVE 7 Fall, Spring, S				textbox)			
Spring 2023	3						



CMPT 128 no longer being offered, we are replacing it with ENSC 151.						



COURSE SU	RIFCT	Econ	NUMBER	233	TITLE		
COURSE 30	DJECI	LCOII	NOMBER	233	ITTLE	Introdu and Sta	action to Economic Dat tistics
TYPE OF CHA	ANGES.	Please type 'Σ	ζ' for the app	oropriate rev	ision(s):		
Course number		Ur	nits	\boxtimes	Prere	equisite	
Title		De	escription		-	ivalent tement	
Units: 4 Units: 3							
EFFECTIVE 1 Fall, Spring, S	ummer	_					
Spring 2023 RATIONALE		e included)					
			is required to	alion course	with equi	valent coi	urses (BUS 232
			•	•	•		proposed unit
	•		•				proposed unit
workload ca	llculation	by SFU (bas	ed on 2-3 hou	ars ot work pe	er week pe	er unit)	I



COURSE MODIFICATION FORM

COURSE SU	BJECT	BUS	NUMBER	450	TITLE	Managing Emerging Opportunities	
TYPE OF CHA	ANGES.	Please type 'X	' for the app	ropriate revi	ision(s):		
Course number		Un	its		Prere	equisite 🗵	
Title		De	scription			nivalent □ tement	
indicate adde allows, drag t expand. Pleas	WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using strike through, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under Information about specific course components if changing equivalent statement(s).						
Develops abilities to identify and evaluate emerging opportunities in the specific context of consulting. Through innovation consulting projects with real clients, participants will develop their problem-solving and interpersonal skills, and practice delivering analysis and recommendations to satisfy client needs. monitor social, cultural, commercial, political and technical developments to forecast and assess emerging technologies. Forecasting methods including expert opinion, trend analysis and scenario construction will be discussed. Selected emerging technologies will be examined through invited speakers and videos. Prerequisite: BUS 360W (or another upper division Writing (W) course) with a minimum grade of C-; 60 units. Recommended: BUS 338.							
_		ND YEAR FOR		touthou			
Spring 202:		and year (plea	ase enter in 1	lextboxJ			



The pedagogy and content of this course has evolved over time, with the last five iterations of the course featuring consulting projects with real clients. The existing course description does not reflect the experiential nature of the class. Modifying the description to the proposed text provides a better reflection of what students will experience.



MEMO

Undergraduate Chair School of Communication

Burnaby Campus - K8665

Burnaby Tel: 778.782.9360

Fax: 778.782.4024

ΛT	TENTION:	FCAT	LICC

FROM:	Frédérik Lesage, Undergraduate Chair
RE:	School of Communication – Temporary Withdrawals
cc	
DATE:	April 7, 2022

For information:

The following School of Communication courses will be temporarily withdrawn effective Spring Term 2023:

CMNS 310 - Media and Modernity (4)

CMNS 321 - Cultural Production of Popular Music (4)

CMNS 322 - Documentary Media (4)

CMNS 324 - Media, Sports and Popular Culture (4)

CMNS 325 - Visualization and Visual Culture in Communication (4)

CMNS 326 - Applied Media Workshop: On the Hill (4)

CMNS 327 - Media, Learning, and Social Change (4)

CMNS 331 - News Discourse as Political Communication (4)

CMNS 332 - Communication and Rhetoric (4)

CMNS 333 - Digital Policies in a Global Context: Current Issues, Concepts and Analysis (4)

CMNS 334 - Cultural Policy (4)

CMNS 342 - Science and Public Policy: Risk Communication (4)

CMNS 346 - Development Communication (4)

CMNS 347 - Communication in Conflict and Intervention (4)

CMNS 348 - Globalization and Media (4)



CMNS 349 - Environment, Media and Communication (4)

CMNS 354 - Communication and Social Issues in Design (4)

CMNS 355 - Technologies of Gender and Sexuality (4)

CMNS 356 - Communication to Mitigate Disasters (4)

CMNS 357 - Audio Media Analysis (4)

CMNS 358 - Sound Recording: Theory and Design (4)

CMNS 359 - The Culture and Politics of Sound (4)

Frédérik Lesage CMNS USC Chair



COURSE SU	JBJECT	CMNS	NUMBER	304W	TITLE Com Life	munication in Everyday
TYPE OF CH	I ANGES. P	lease type	'X' for the app	propriate re	vision(s):	
Course number		Į	Jnits		Prerequisi	te 🗵
Title		Ι	Description		Equivale Stateme	
An examin discursive units, incl- Students v units with	rse componation of a practice, uding one with credit a minimu	range of to including goof CMNS 2 for CMNS m grade o	heories of eve gossip, humou 220, <u>221</u> , 223, 5304 may not	alent statemeryday languar, religion, a 223W, 235, take this costs with a min	uage focused on sand sarcasm. Pre	specific forms of erequisite: 45 n grade of C credit. 17 CMNS
Spring 202	23					
RATIONALE	E (must be	included)				
	,		-	• •	uisites and towa ite structure for	•



COURSE SU	JBJECT	CMNS N	UMBER 410	TITLE Media and Ideology				
TYPE OF CH	IANGES.	Please type 'X' for	r the appropria	te revision(s):				
Course number		Units		Prerequisite 🗵				
Title		Descr	iption \square	Equivalent ⊠ Statement				
indicate add allows, drag expand. Plea	ed or nev the endp ise reviev	v text using <u>unde</u> oint of the text b	rline. If you nee ox to make it bi cy statements" s	or changed text using strike through, ed to enter more text than the box gger, as it will not automatically section under Information about ratement(s).				
studies and Prerequisi <u>60 units w</u>	d social th te: 75 un ith a min	neory through an its, including CM imum CGPA of 2.	in-depth histor NS 310 <u>26 CMN</u> 00. <u>CMNS 331</u> 3	between communications, media ry of the concept of ideology. IS units with a minimum grade of C- or and SA 327 recommended. Students of for further credit.				
		ND YEAR FOR CH and year (please		x)				
Spring 202	23							
RATIONALE	RATIONALE (must be included)							
				erequisites and towards a minimum equisite structure for students.				



COURSE SU	BJECT CM	INS NUMBER	423	TITLE Globalization: Cultural Iss	ues				
TYPE OF CHA	ANGES. Pleas	se type 'X' for the ap	propriate r	revision(s):					
Course number		Units		Prerequisite 🗵					
Title		Description		Equivalent 🖂 Statement					
indicate adde allows, drag to expand. Please specific cours Explores the hand, the continuous increased continuous in white narratives, so the prerequisite 2.00. 75 unit with a minit	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). Explores the cultural dimension of global flows of capital and data, comparing, on the one hand, the consequences of increased mobility and, on the other hand, the drive towards increased control and immobility of displaced populations. Examines how the tightening of national boundaries and economic and political processes of globalization have left populations "placeless" whether because of war, environmental disaster, etc. Looks at the ways in which these groups make sense of their displacement and immobility through narratives, stories and images, focusing on issues of power and the destruction of social life. Prerequisite: 26 CMNS units with a minimum grade of C- or 60 units with a minimum CGPA of 2.00.75 units including CMNS 221 or 223 (or 223W), and two CMNS upper division courses with a minimum grade of C-; and CGPA of 3.00 or higher. Students who have taken CMNS 487 in terms 1051, 1057 and 1081 cannot take this course for further credits.								
Fall, Spring, S	EFFECTIVE TERM AND YEAR FOR CHANGES Fall, Spring, Summer and year (please enter in textbox) Spring 2023								
	is shifting aw	vay from course-spe		quisites and towards a minimum isite structure for students.					



COURSE SUBJECT	CMNS NUMBER	R 424	TITLE Colonialism, Culture and Identity			
TYPE OF CHANGES.	Please type 'X' for the ap	propriate	e revision(s):			
Course \square number	Units		Prerequisite 🖂			
Title \square	Description		Equivalent ⊠ Statement			
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). Examines why identity is such an important issue for contemporary diasporic communities and former colonies. Introduces students to critiques of representations that construct "racialized" groups as inferior, primitive threats to civilization and their constitution of passive, disciplined subjects. Primarily focuses on innovative cultural strategies developed in Indigenous People, the Black diaspora, Asian/Canadian communities and survivors of the Jewish Holocaust to create ethical communities and critique the impact of colonial violence on contemporary societies. Prerequisite: 26 CMNS units with a minimum grade of C- or 60 units with a minimum CGPA of 2.00. 75 units including CMNS 221 or 223 (or 223W), with a minimum grade of C-; and two CMNS upper division courses with a minimum grade of C-; and CGPA of 3.00 or higher. Students who have taken CMNS 487 in terms 1037, 1047 and 1067 cannot take this course for further credit.						
	ND YEAR FOR CHANGES and year (please enter in)			
Spring 2023						
RATIONALE (must be	e included)					
			requisites and towards a minimum uisite structure for students.			



COURSE SUI	ВЈЕСТ	CMNS NU	JMBER 427	TITLE	Particip Cultures	atory Youth Me s
TYPE OF CHA	NGES. P	Please type 'X' for	the appropria	te revision(s):		
Course number		Units		Prere	equisite	
Title		Descrip	ption \square	_	ivalent tement	
Examines the cultures, incomparticipator change the representation and the cultures of the culture of the c	e compo ne nature cluding the ry culture meaning opments e: 75 uni- , with a 1 09, Summe for furth num CG		edagogical imp to the develop cultural and ed ing, and possib ith a view to h Yor <u>CMNS 387</u> of C. Students er 2011, or Sun NS units with a	atement(s). plications of parament of a digitation relation oilities for socion they shape with the topic with credit for the mmer 2012 terms	ticipatory ally literate ns and propositical young peons and	y media te citizenry. ractices that change. ople's lives. nd 7 (taken in not complete
		ND YEAR FOR CHA and year (please e		x)		
Spring 2023	3					
RATIONALE	(must be	e included)				
		g away from cour site. This will sim				





COURSE SU	IBJECT (CMNS NUMBEI	R 362	TITLE Evaluation Methods for Applied Communication Research	
TYPE OF CH	ANGES. Ple	ase type 'X' for the ap	propriate re	evision(s):	
Course number		Units		Prerequisite ⊠	
Title		Description		Equivalent \square Statement	
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Fall, Spring, S Spring 202 RATIONALE The School	Summer and 3 (must be indicated in the incident of the incid	away from course-spe	n textbox)	quisites and towards a minimum site structure for students.	
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COURSE SUBJECT	CMNS NUMBER	R 425	TITLE Applied Communication Social Issues	n fo
TYPE OF CHANGES.	Please type 'X' for the ap	propriate	e revision(s):	
Course \square number	Units		Prerequisite ⊠	
Title \square	Description		Equivalent \square Statement	
An advanced semin strategic design of education, and soci approaches in critic public understandi 75 units, including 201W (201 or 260) CMNS units with a	nar in applied communication in applied communication media messages, campaing in the call media analysis to the large engagement and part CMNS 221 with a minimum (CMNS 202 (or 262) or (CMNS 202)	valent state ation that gns and provided the tasks of maticipation at the	focuses on the research and programs for public awareness, e application of theories and media design and media use for around social issues. Prerequisite:	
	and year (please enter in	_)	
Spring 2023				
RATIONALE (must b	oe included)			
1	-	-	equisites and towards a minimum uisite structure for students.	



COURSE SUI	ВЈЕСТ	CMNS	NUMBER	426	TITLE	Video Design for Social Communication	
TYPE OF CITA	NCEC I)] · · · · · · · ·	(V) for the con-				
TYPE OF CHA	INGES. I	rlease type	x for the ap	propriate	e revision(s):		
Course number		U	nits		Prere	equisite 🗵	
Title		D	escription		_	uivalent 🗆 itement	
expand. Please review the "Equivalency statements" section under Information about specific course components if changing equivalent statement(s). This workshop examines the growing role that video is playing in a variety of public relations, industrial, advocacy and educational contexts. The emphasis of this course is on issues of communication design in relation to the goals and values in specific communication forums. Prerequisite: 75 units, including CMNS 226 with a minimum grade of C and two of CMNS 220, 326, 358, both with a minimum grade of C 26 CMNS units with a minimum grade of C- or 60 units with a minimum CGPA of 2.00.							
EFFECTIVE T Fall, Spring, Si		_)		
Spring 2023	3						
RATIONALE (RATIONALE (must be included)						
						towards a minimum re for students.	



COURSE SUB	JECT	CMNS	NUMBER	431	TITLE	News Ro	esearch and Analy	ysis
TYPE OF CHA	NGES. F	Please type 'እ	X' for the app	ropriate rev	ision(s):			
Course number		Ur	nits		Prere	quisite	\boxtimes	
Title		D€	escription		_	ivalent tement		
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EFFECTIVE TH Fall, Spring, Su				textbox)				
Spring 2023								
RATIONALE (1	must be	included)						
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COURSE SU	IBJECT	CMNS	NUMBER	432	TITLE	Political Communication, Public Opinion and Political Marketing
TYPE OF CH	ANGES.	Please type 'ኦ	ζ' for the app	oropriate rev	ision(s):	
Course number		Ur	nits		Prere	equisite 🗵
Title		De	escription		_	ivalent □ tement
Despite ris contempor We look at public sphe CMNS or D minimum g	the core ping levels ary form how polere during the large and the large area area.	paradox of the sof education is of satire, voitics is defined and between division co	e political din and citizen oting turnou d and meanien elections. urses, with a with a mini	scourse in a cacess to 24 tin most adving is mediate Prerequisite minimum g	democrat -hour new ranced de ed within : 75 units rade of C- of 2.00. St	ic society today. ws, public affairs and mocracies is declining. the communicative including at least two 26 CMNS units with a cudents with credit credit.
EFFECTIVE 'Fall, Spring, S						
Spring 202	3					
RATIONALE	(must b	e included)				
						towards a minimum re for students.



COURSE SU	ВЈЕСТ	CMNS NUMBE	R 433	TITLE Issues in Communicati Cultural Policy	on and
TYPE OF CHA	ANGES. Ple	ease type 'X' for the ap	opropriate	te revision(s):	
Course number		Units		Prerequisite 🗵	
Title		Description		Equivalent \square Statement	
Advanced s from among broadcastin including C	eminar on g current p g, the cult	ents if changing equi- current issues in com- policy issues in local, r ural industries, the ar	valent stat nmunicational ar ts and her m grade o	cion policy. Topics will be selected and international aspects of eritage. Prerequisite: 75 units, of C 26 CMNS units with a minimum	
		YEAR FOR CHANGE d year (please enter i		x)	
Spring 2023	3				
RATIONALE	(must be i	ncluded)			
				erequisites and towards a minimum quisite structure for students.	



TYPE OF CHANGES. Please type 'X' for the appropriate revision(s): Course	COURSE SUE	ВЈЕСТ	CMNS	NUMBER	437	TITLE		Democratization: Fron e to Transformation
MORDING/DESCRIPTION EDITS. Indicate deleted or changed text using strike through, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under Information about specific course components if changing equivalent statement(s). An advanced seminar on the normative debates, social bases, and strategic potential for media democratization in the context of economically developed liberal democracies like Canada and the United States. This course complements other courses which critically examine state communication policies and the political economy and allegedly ideological character of corporate media. Here, we focus on campaigns and movements in civil society to define and build alternative communicative forms based on equality, democratic participation and/or human rights. Prerequisite: 75 units, including CMNS 235, 240 or 331, with a minimum grade of C 26 CMNS units with a minimum grade of C- or 60 units with a minimum CGPA of 2.00. Students with credit for CMNS 428 or 487 under the same title may not take this course for further credit. EFFECTIVE TERM AND YEAR FOR CHANGES Fall, Spring, Summer and year (please enter in textbox) Spring 2023 RATIONALE (must be included) The School is shifting away from course-specific prerequisites and towards a minimum	TYPE OF CHA	NGES. P	Please typ	e 'X' for the app	ropriate revi	ision(s):		
WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using strike through, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under Information about specific course components if changing equivalent statement(s). An advanced seminar on the normative debates, social bases, and strategic potential for media democratization in the context of economically developed liberal democracies like Canada and the United States. This course complements other courses which critically examine state communication policies and the political economy and allegedly ideological character of corporate media. Here, we focus on campaigns and movements in civil society to define and build alternative communicative forms based on equality, democratic participation and/or human rights. Prerequisite: 75 units, including CMNS 235, 240 or 331, with a minimum grade of C- 26 CMNS units with a minimum grade of C- or 60 units with a minimum CGPA of 2.00. Students with credit for CMNS 428 or 487 under the same title may not take this course for further credit. EFFECTIVE TERM AND YEAR FOR CHANGES Fall, Spring, Summer and year (please enter in textbox) Spring 2023 RATIONALE (must be included) The School is shifting away from course-specific prerequisites and towards a minimum				Units		Prere	equisite	
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	indicate added allows, drag the expand. Please specific course. An advance media demo Canada and examine state ideological civil society democratic 235, 240 or C- or 60 unit 428 or 487 EFFECTIVE T Fall, Spring, St. Spring 2023 RATIONALE (The School in the specific and the s	d or newne endporter endpo	text using the point of the point of the requests if contents if contents if contents and built are and built are same times and year (included gaway from the point of the	g underline. If ye text box to madivalency statem changing equivalence and the context of economics. This course con policies and the context media. He ald alternative conforming from CGPA of 2.00 at le may not take the may not take the context of economics. The course con policies and the course media. He alternative conforming from the course of th	vou need to eke it bigger, a lents" section lent statementes, social banomically demplements on political ener, we focus ommunicatives. Prerequises 26 CMNS we this course textbox)	enter more as it will read under Interection (s). The asses, and eveloped lead to ther counce comon and enterection campaire forms lead to the credit for furth enterection sites with credit for furth enterection sites and enterection sites and enterection sites and enterection sites and enterection enterection sites and enterection enterec	e text that not autom aformation strategic liberal decreased on the notated and alleged in a minim for CMN er credit.	potential for mocracies like ch critically movements in equality, ading CMNS num grade of S



COURSE SU	JBJECT	CMNS	NUMBER	440	TITLE	Labour the Me	r, Communication ar dia
TYPE OF CH	I ANGES. P	lease type 'X'	for the app	oropriate	revision(s):		
Course number		Uni	its		Prer	equisite	
Title		Des	scription		_	uivalent atement	
Explores t working c of workers a 240, with with a min credit for further cr	the relation on ditions is and work in their of a minimum grace. CMNS 488 edit.	kplaces; and rganizations.	en labour, c and comm uses of med Prerequisi ; or writter 0 units with ic "Labour	ommunicunication dia and c te: 60 un permissing a mining and CMN	tement(s). cation, and the industries; ommunication of the industries on of the industries of the indu	ne media, media repon techno CMNS 23 Structor.	including: presentations logies by 30 or CMNS 26 CMNS units udents with
Spring 202		The year (pres		001100 011	,		
RATIONALE		included)					
The Schoo	l is shifting						s a minimum udents.



COURSE SU	JBJECT	CMNS	NUMBER	443	TITLE	Comparativ Systems	e Asian Media
TYPE OF CH	ANGES. F	Please typ	e 'X' for the app	oropriat	e revision(s):		
Course number			Units		Prer	equisite 🛚	
Title			Description		•	uivalent \square	
Offers a ba political an and theore undergoin Provides a media and units with	se review se componing socio-etical issurant overview politics in a minimunded: CM	the "Equanents if of the conomic es in med of rapid wo fissum specificum grade	e text box to manivalency statent changing equivalency statent changing equivalence diagrams. Introduced the countries in the countries of C- or 60 uniter CMNS 240; and countries are countries of C- or 60 uniter CMNS 240; and countries are countries of C- or 60 uniter CMNS 240; and	nents" salent standard sian meduces standard vast an omic, so ifferent se regions with a	ection under latement(s). dia systems in tudents to a rade extremely desiral and culture media system in Prerequisite minimum CG	Information all concrete histonge of epister liverse region ral transformatis and case study. The concrete states and case study. The concrete states are states and case study. The concrete states are states are states are states are states are states. The concrete states are states ar	corical, mological that is ation. addies of
			FOR CHANGES [please enter in		x)		
Spring 202	3						
RATIONALE	(must be	included	l)				
			om course-spe will simplify th				



COURSE SUBJECT	CMNS NUMBER	444 TITI	Political Economy of International Communication
TYPE OF CHANGES.	. Please type 'X' for the app	propriate revision(s	5):
Course \square number	Units	□ Pr	erequisite 🗵
Title \square	Description		Equivalent \square Statement
indicate added or ne allows, drag the end expand. Please revies specific course compand and the expand and the technology and in minimum grade or allows.	PTION EDITS. Indicate de we text using underline. If y point of the text box to many we the "Equivalency statem ponents" if changing equivate of the domestic and internate elecommunications and the formation. Prerequisite: 64 of C- and CMNS 346 or 348, grade of C- or 60 units with	you need to enter note it bigger, as it we need to enter note it bigger, as it we need to enter note it bigger, as it we need to enter statement(s). It is a subject to enter the content of the content	of the development of ct of the free flow of the or 247, with a rade of C. 26 CMNS units
_	AND YEAR FOR CHANGES and year (please enter in		
RATIONALE (must)	 pe included)		
	ing away from course-specuisite. This will simplify the		· · · · · · · · · · · · · · · · · · ·



COURSE SU	JBJECT	CMNS	NUMBER	445	TITLE	Media a China	and Popular Culture i
TYPE OF CH	ANGES. I	Please typ	e 'X' for the app	oropriate r	evision(s):		
Course number			Units		Prere	equisite	
Title			Description		•	iivalent itement	
An explora of media a institution imperative during a punits with Recomme	se componing the second of the	ne media a ar culture gs and dyn e everyda epochal tra um grade NS 201W	ivalency statenthanging equivalency equivalency equivalency equivalency equivalency end properties and properties and equivalency extruggles and equivalency equiv	lture scene ctices are a hips with c d cultural s n China. Pr	ment(s). in reform-canalyzed in official ideolensitivities erequisite:	era China their con ogies, ma of variou 75 units. PA of 2.00	a. A wide range crete arket s social groups 26 CMNS 0.
_			FOR CHANGES				
Spring 202	3						
RATIONALE	(must be	e included	1)				
		-	om course-spe will simplify th	-	-		

COURSE SU	Ј ВЈЕСТ С	MNS NUMBER	446	TITLE	Communication, Scienc Technology	e and
TYPE OF CH	ANGES. Plea	ase type 'X' for the app	oropriate re	vision(s):		
Course number		Units		Prerec	quisite 🗵	
Title		Description		_	valent □ ement	
Explores to such as science wide institution government development a minimum units with	he relationslientists, entratutional continual, non-government program and one of mande of Caminimum TERM AND Summer and	repreneurs, technolog texts; compares globa vernment, and transn ence and technology in s. Prerequisite: 75 un	olitics, and ists, activist I flows of so ational organ media sysits, including 260), CMN; as with a minus	nent(s). science; inverse, policy-material pol	estigates stakeholders akers and their world-echnology through examines ternational 6 with a minimum 62) or CMNS 261, with CMNS 362. 26 CMNS	
RATIONALE		_ cluded)				
The School	l is shifting a	way from course-spece. This will simplify th				



COURSE SU	ВЈЕСТ	CMNS NUM	IBER 447	TITLE	Negotiat Commun	tion and Dialogu nication	ie as
TYPE OF CHA	ANGES. Ple	ease type 'X' for th	e appropriate	revision(s):			
Course number		Units		Prere	quisite		
Title		Descript	ion 🗆	_	ivalent tement		
This course negotiation understand consequent competitive case studied world-wide Prerequisity other CMN with a min	se review to se component of the component of the ces of different of the ces of different of the ces of the c	nt of the text box the "Equivalency sents if changing eframeworks and to of communication role of communications of the sent kinds of negotic that it is the sent that	tatements" se equivalent statements se equivalent statements se equivalent statements. The objective cation in the new cation in the new cation strate and analysts egotiation as a 347 with a minures with a minure with a minures with a minure with a minures with	ction under Interest (s). Ich to understate of the course egotiating progies in interculation and provides basis for clarinimum gradenimum CGPA of 2	and and e se is to pro- cess, and altural, into cussion w s an appre- fying rela of C-, and of C 26	evaluate ovide an the ternational, rith practical eciation of the ationships.	
Spring 202		n aludod)					
The School	is shifting	away from course					



COURSE SU	івјест [CMNS NUMBER	452	TITLE Race and Media
TYPE OF CH	ANGES. Pl	lease type 'X' for the ap	propriate	erevision(s):
Course number		Units		Prerequisite 🗵
Title		Description		Equivalent \square Statement
expand. Plea specific cour Examines movies, methnicity, a Investigate including of G-, and at I units with who have	the endpo se review se compor the content usic, and the and identifies contempone of CMI east two C a minimustaken CMI	int of the text box to mathe "Equivalency staternents if changing equivalency construction as the Internet. Provides gray. Explores the historic porary issues and form NS 202 (or 262), 220, 220, 220, 220, 220, 220, 220, 2	ake it big ments" se alent state nd maint rounding cal role of s of medi 21, 223 (urses with a	to enter more text than the box ger, as it will not automatically ction under Information about tement(s). enance of race and ethnicity, through in scholarship on media, race, entertainment in racialization. a and race. Prerequisite: 75 units or 223W), with a minimum grade of the a minimum grade of the a minimum grade of Chaminimum CGPA of 2.00. Students are Media" cannot take this course for
	ΓERM AN l Summer an	D YEAR FOR CHANGES nd year (please enter in		
RATIONALE	(must be	included)		
	_		-	requisites and towards a minimum uisite structure for students.



COURSE SUB	JECT	CMNS	NUMBER	453	TITLE	Issues in the Information Society
TYPE OF CHA	NGES. Pl	ease type '.	X' for the app	oropriate rev	rision(s):	
Course number		U	nits		Prere	equisite 🗵
Title		D	escription		•	uivalent 🗌 tement
Prerequisite	compor : 75 unit recomn	nents if charses, including the nended. 26	anging equiva	alent statemo W, 353 or 35	ent(s). 4, with a 	minimum grade of C e of C- or 60 units
EFFECTIVE TI Fall, Spring, Su		_				
Spring 2023						
RATIONALE (must be	included)				
						towards a minimum re for students.

COURSE SU	JBJECT	CMNS	NUMBER	454	TITLE	Computer Suppo Cooperative Wor Perspectives	
TYPE OF CH	ANGES. I	Please typ	e 'X' for the app	oropriate i	evision(s):		
Course number			Units		Prere	equisite 🗵	
Title			Description		_	nivalent 🗌 nitement	
Topics will supported relations of issues arises systems, a including	l include l cooperate on the des sing in dev nd using CMNS 363 grade of the	the conte tive work sign and c veloping a data whice with a n	systems, the in choice of compu and implementi ch results from ninimum grade	character of fluence of ter supporting computheir use. I	of jobs that is managerial rted cooperater supporter sup	involve computer goals and workpla ative work systems ed cooperative work: 75 units, for 253W), with a cor 60 units with a	s, rk
	Summer a	and year (FOR CHANGES (please enter in				
The School	l is shiftin	g away fr	om course-spe			towards a minimure for students.	ım



COURSE SU	BJECT CM	ANS NUMBI	ER 455W	TITLE	Women a Technolog	nd New Informatio
TYPE OF CHA	ANGES. Pleas	se type 'X' for the a	appropriate	revision(s):		
Course number		Units		Prere	equisite [\boxtimes
Title		Description	ı 🗆	_	uivalent [utement	
Topics inclinformation spheres; is roles and the study of geand society of C 26 C 2.00. Stude Writing.	ude the process and common sues related the use of ICT and ICT	e "Equivalency states if changing equiverses through white unication technology to computerization to computerization to heart in relation to heart in relation to heart in requisite: 60 units with a minimum gradit for CMNS 455 and the computerization of the computerization of the computerization in relation to heart in relation to the computer in t	ivalent stated ich gendering ich gendering ich gendering ich of women alth; as well eoretical des, including ade of C- or may not tak	ement(s). Ing of technologies gender and under and under and under as the control of the contro	ogies takes public and public and public and public medians where science, ted with a min	place; private t; and gender lich the chnology limum grade n CGPA of
RATIONALE	(must be inc	luded)				
	_	vay from course-s This will simplify		_		



COURSE SUE	B JECT C	MNS NUMB I	ER 460	TITLE	Seminar Issues	in Dialogue ar	ıd Public
TYPE OF CHA	. NGES. Plea	se type 'X' for the a	appropriate	revision(s):			
Course number		Units		Prere	equisite	\boxtimes	
Title		Description	n 🗆	_	uivalent Itement		
indicate added allows, drag the expand. Please specific course. Focuses on comparison corporate, under the comparison outcomes. The studied is done a minimum further crecitation.	d or new texture endpoint to review the review the componer of the practical softhe role of the role of the course	N EDITS. Indicate at using underline, of the text box to be "Equivalency states if changing equal tools and concept and impact of dia Nations, legal-regulation among interest in-making, technique can be repeated for requisite: 75 units of G. 26 CMNS units of G. Students with of CEAR FOR CHANG year (please enter	If you need make it bigg tements" securivalent state of tual approaulatory, advocate groups and ues of facility credit up to its, including a mum grade of its with a micredit for DI	to enter morer, as it will net ion under Lement(s). The ches used in geommunity ocacy groups distakeholde tation, and store a maximum of C-; DIAL 30 inimum gradinger as a maximum gradinger and gradinger and gradinger as a maximum gradinger as a maximu	dialogue, y, governm and organ rs, culture rategies for of three of CMNS	with ment, mizations. es of or effective times, if topic w, or 392W, 60 units with	
RATIONALE (luded)					
The School i	s shifting av	vay from course-s This will simplify					



COURSE SU	JBJECT (CMNS NUMBE	R 353	TITLE	Topics i	n Technology	& Society	
TYPE OF CH	I ANGES. Ple	ase type 'X' for the a	ppropriate	e revision(s):				
Course number		Units		Prere	equisite	\boxtimes		
Title		Description	ı 🗆	_	iivalent tement			
expand. Pleaspecific cour CMNS 353 Examination technologic between explaced on second for credit in CMNS 253 CMNS 202	se review the second of the ender and scient veryday life social content of the ender with a mark (or 262), we see the second to	nt of the text box to refer the "Equivalency state the "Equivalency state the "Equivalency state of C- or the "Equivalency and shaping ace in the digital age.", social institutions, a ext and relations of poic is different (up to inimum grade of C- or the a minimum grade of C- or the continum grade of C- or the continuum grade of C- or the	gy and So g of inform Explores and variou ower. This a maximu	ciety (4) nation and connew media and senterprises. course can be am of two time CMNS 201W (commended: Commended: Commend	nmunicat d social cl Emphasi e repeated es). Prerec (201 or 26 EMNS 362	ion hange s is d once quisite: 60) or		
EFFECTIVE TERM AND YEAR FOR CHANGES Fall, Spring, Summer and year (please enter in textbox) Spring 2023								
For prerec		ncluded) ge: The School is shif	fting away	from course-s	enecific n	raraguisitas	\neg	
and towar		ım CMNS unit prerec						

The title (and description) change will reinforce and clarify the scope of the topics currently being taught in CMNS 353. This refined scope will also ensure that the course remains distinguishable from other new topics course offered at the third-year level.



EXISTING COURSE DELETION FORM

1 of 1 page

COURSE SUBJECT	BISC	NUMBER	302	TITLE Genetic Analysis				
RATIONALE (must be	e included)							
non-W version o	f the course ha	s not been	scheduled in	tic Analysis and BISC 302W Genetic Analysis. The over 9 years. This form requests ONLY THE . BISC 302W continues to be taught every year.				
EFFECTIVE TERM A Fall, Spring, Summer			Spring 2023					
PLEASE DO THE FO	LLOWING:							
Office (stud 2. Once you requirement 3. If more modification	cal@sfu.ca) for a pu have the prognts. substantial changon form. ther changes otl	program in pact	mpact list. t list, please revie	ew how deleting this course affects each program's sas a result of this deletion, please also submit a program d in program requirements, please list those programs in the				
Program Impact	List attached b	elow.						
BPK has been no Physiology Majo			of BISC 302W	ensures this will not impact their Biomedical				
Course Impact A	nalysis - no co	urses affe	cted.					
5. Lastly n	lease conduct a	course imp	act analysis whi	ch reviews the effect of a course number change and/or				

course deletion on course prerequisites. For instructions on how to do a course impact analysis, please visit our

page and click on "deleting a course" and review Step 2. Course Impact Analysis.







RATIONALE (must be included)

BISC 326 (Fungi and Algae) has functioned like two half courses that have been joined into a single course. This course deletion is part of a package to split the course and replace BISC 326 with 2 new courses: BISC 327 Algal Biology and BISC 328 Fungal Biology and Ecology.

EFFECTIVE TERM AND YEAR FOR CHANGES Fall, Spring, Summer and year (enter in textbox)

Spring 2023

PLEASE DO THE FOLLOWING:

- 1. Attach a program impact list along with your course deletion form. Contact the Senate and Academic Services Office (sfucal@sfu.ca) for a program impact list.
- 2. Once you have the program impact list, please review how deleting this course affects each program's requirements.
- 3. If more substantial changes are required to programs as a result of this deletion, please also submit a program modification form.
- 4. If no further changes other than deletion is required in program requirements, please list those programs in the box below:

Program Impact List attached below.

This course deletion is part of a package of changes that includes:

- 1. A program change form for BISC Major and Honours.
- 2. A pre-req change form for BISC 430.

FENV has been notified of the impact on their Environmental Science Major and Honours.





COURSE SUBJECT	BISC	NUMBER	374	TITLE	Brewing Science with Lab
		'		'	

RATIONALE (must be included)

The calendar currently lists 2 versions of Brewing Science: BISC 373 Brewing Science, and BISC 374 Brewing Science with Lab. BISC 374 has not been scheduled in 9 years (or more?) owing to logistical constraints (lack of lab space, lack of lab instructor, closure of brewery at Surrey campus). This deletion will not affect BISC 373 (non-lab version) which continues to be scheduled as teaching capacity permits.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Spring 2023

PLEASE DO THE FOLLOWING:

- 1. Attach a program impact list along with your course deletion form. Contact the Senate and Academic Services Office (sfucal@sfu.ca) for a program impact list.
- 2. Once you have the program impact list, please review how deleting this course affects each program's requirements.
- 3. If more substantial changes are required to programs as a result of this deletion, please also submit a program modification form.
- 4. If no further changes other than deletion is required in program requirements, please list those programs in the box below:

Program Impact List attached below.

Faculty of Business has been notified of the effect on their Certificate of Innovation and Entrepreneurship. The continuation of BISC 373 (non lab version of Brewing Science) ensures this will not impact their Certificate.

Course Impact Analysis - no courses affected.



1 of 1 page

Course Impact Analysis - no courses affected.

COURSE SUBJECT	BISC	NUMBER	434	TITLE Paleoecology and Palynology
RATIONALE (must b	e included)			
This course was	last taught in S	Summer 20)16 and is not s	scheduled to be taught again.
	VEAR FOR O			
Fall, Spring, Summe			Spring 2023	
PLEASE DO THE FO	LLOWING:			
				e deletion form. Contact the Senate and Academic Services
	cal@sfu.ca) for a			ew how deleting this course affects each program's
requiremen	nts.	_	-	
3. If more modification		ges are requ	iired to programs	s as a result of this deletion, please also submit a program
4. If no fur box below		her than de	letion is required	d in program requirements, please list those programs in the
DOX Delow	:			
Program Impact	List attached b	elow.		
This deletion is a	accompanied b	v:		
1. Program Chan			al Sciences Ma	ijor & Honours.



1 OF 1 PAGE

COURSE SUBJECT	BISC	NUMBER	439	TITLE	Industrial Microbiology
RATIONALE (must b	pe included)				
This course was scheduled to be	_	Spring 201	7. The faculty	membe	r who taught it has retired and it is not
EFFECTIVE TERM A Fall, Spring, Summe			Spring 2023		
PLEASE DO THE FO	DLLOWING:				
Office (sfu	ıcal@sfu.ca) for a	a program i	mpact list.		on form. Contact the Senate and Academic Services deleting this course affects each program's

3. If more substantial changes are required to programs as a result of this deletion, please also submit a program modification form.

4. If no further changes other than deletion is required in program requirements, please list those programs in the box below:

Program Impact List attached below.

This deletion is accompanied by:

requirements.

- 1. Program Change form for the Biological Sciences Major & Honours.
- 2. Program Change form for the Environmental Toxicology Minor.

Course Impact Analysis - no courses affected.







NUMBER 440

COURSE SUBJECT BISC

RATIONALE (must be included)
The course calendar currently lists both BISC 440 Biodiversity, and BISC 440W Biodiversity. The non-W version of the course has not been scheduled in over 9 years. This form requests ONLY THE DELETION OF THE NON-W VERSION of the course. BISC 440W continues to be taught every second year.
EFFECTIVE TERM AND YEAR FOR CHANGES Fall, Spring, Summer and year (enter in textbox) Spring 2023
PLEASE DO THE FOLLOWING:
 Attach a program impact list along with your course deletion form. Contact the Senate and Academic Service Office (sfucal@sfu.ca) for a program impact list. Once you have the program impact list, please review how deleting this course affects each program's requirements. If more substantial changes are required to programs as a result of this deletion, please also submit a program modification form. If no further changes other than deletion is required in program requirements, please list those programs in the box below:
Program Impact List attached below.
The following units have been notified. Given the continuation of BISC 440W Biodiversity, we do not anticipate any effect on these programs. 1. Certificate of Biological Anthropology (FENV) 2. Certificate of Ethics (Philosophy)
Course Impact Analysis - no courses affected.

TITLE Biodiversity



COURSE SUBJE	CT BISC	NUMBER	430	TITLE M	icrobe-P	Plant Interactions
TYPE OF CHANG	ES. Please typ	pe 'X' for the app	ropriate revi	sion(s):		
Course number		Units		Prerequi	isite 🛭	3
Title		Description		Equiva Staten		₫
grade of C- or b	enew text using the endpoint of the eview the "Equentary of least one of letter. Student	ng <u>underline</u> . If y e text box to ma uivalency statem	you need to e ke it bigger, a nents" section alent stateme SISC 328, BISC upleted BISC	nter more te as it will not a n under <u>Infor</u> nt(s). C 337, or BIS 475 under th	ext than tautomatemation a	the box cically about oth with a
EFFECTIVE TER Fall, Spring, Sum			textbox)			
Spring 2023						



RATIONALE (must be included)

BISC 326 Biology of Algae and Fungi is being deleted and replaced by a pair of new courses: BISC 327 Algal Biology and BISC 328 Fungal Biology and Ecology. The new fungal course provides helpful background on fungal microbes.

BISC 366 (Plant Physiology) increases access to the course.

The anti-requisite statement is no longer needed.



COURSE SU	ВЈЕСТ	CHEM NUMBEI	R 316		roductory Instrumenta alysis				
TYPE OF CHA	ANGES. Ple	ease type 'X' for the ap	propriate r	evision(s):					
Course number		Units		Prerequis	site 🗵				
Title		Description		Equival Statem					
indicate adde allows, drag t expand. Pleas specific cours Principles a spectroscop CHEM 210.	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). Principles and applications of basic analytical instrumentation based upon spectroscopy, chromatography and electrochemistry. Prerequisite: CHEM 215 CHEM 210, 216, and 260, both all with a minimum grade of C-, or permission of the Department. Quantitative.								
	ummer an	O YEAR FOR CHANGE ad year (please enter in							
RATIONALE	(must be i	mcluded)							
	(2-unit lect	ent change of CHEM 2 ture) and 216 (2-unit 215).							



COURSE SU	вјест С	HEM NUMBE	R 371		Chemist Environ	ry of the Aque ment	eous		
TYPE OF CH	ANGES. Plea	ase type 'X' for the ap	propriate	revision(s):			Т		
Course number		Units		Prereq	uisite	\boxtimes			
Title		Description		-	valent ement				
indicate adde allows, drag to expand. Please specific cours. Chemical power variables de toxic specific matters. Pr	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). Chemical processes in the aqueous environment. Quantitative treatment of the variables determining the composition of natural systems. Chemistry of aqueous toxic species, water purification, wastewater treatment, current topics, and related matters. Prerequisite: CHEM 210, 216, and CHEM-281 and CHEM 215 (or CHEM 210 and CHEM 216), both a minimum grade of C Quantitative.								
		YEAR FOR CHANGE l year (please enter i					_		
Spring 202	3								
RATIONALE	(must be in	icluded)							
	(2-unit lect	nt change of CHEM 2 ure) and 216 (2-unit 215).					EΜ		



COURSE SUBJECT CHEM			NUMBER	391	TITLE	Industrial Chemistry					
TYPE OF CHA	TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):										
Course number		Un	equisite 🗵								
Title		De	scription		_	nivalent 🗌 Itement					
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).										
petrochemi drive the ed products. G CHEM 215,	A survey of industrial chemistry. Topics include the production of raw petrochemical and mineral materials, bulk organic and inorganic chemicals that drive the economy, industrially relevant polymers, and health and hygiene products. Green approaches to industrial chemistry are discussed. Prerequisite: CHEM 215, 230, and 282 (or 283), all both with a minimum grade of C-, or permission of the Department.										
Fall, Spring, S	ummer	ND YEAR FOR		textbox)							
	Spring 2023 RATIONALE (must be included)										
_	Removing CHEM 215 (analytical chemistry) as a prerequisite, in order to increase course accessibility, at the suggestion of the course instructor.										



COURSE SU	IBJECT	CHEM NUMBE	R 449	TITLE Special Topics in Material Chemistry
TYPE OF CH	ANGES. Ple	ease type 'X' for the ap	opropriate	e revision(s):
Course number		Units		Prerequisite 🗵
Title		Description		Equivalent □ Statement
Selected to undergrade include (but trace eleme with applice 215 210, 20 minimum g	pics in matuate course at are not lient analysis ations in p60, 283 (or grade of C-;	he "Equivalency state ents if changing equi- erials chemistry not re e offerings. Topics ma mited to): materials versions of materials using no roducing and utilizing	ements" sevalent sta regularly of y vary fro vith tunal con-destru g chemica fupper div Departme	covered in chemistry om year to year and may ole optoelectronic properties, active techniques, materials al energy. Prerequisite: CHEM vision CHEM, all with a ent.
Spring 202	3			
RATIONALE	(must be i	mcluded)		
lecture) an	d 216 (2-u	-	ure comp	to two courses: CHEM 210 (2-unit onent is a required prerequisite for