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MEMORANDUM

ATTENTION: Senate

Elizabeth Elle, Vice-Chair, Senate Committee on Undergraduate Studies FROM: Elmabet Elle

Course Changes (SCUS 23-01) RE:

DATE: January 6, 2023

For information:

Acting under delegated authority at its meeting of January 5, 2023, SCUS approved the following curriculum revisions effective Fall 2023.

a. Faculty of Arts and Social Sciences

1. Department of History

(i) Course number, prerequisite, title, description and equivalent statement change for HIST 433W and 445

2. Department of Humanities

- (i) Title and description change for HUM 101W
- (ii) Deletion of HUM 103
- (iii) Description change for HUM 277
- (iv) Prerequisite change for HUM 349
- (v) Title and description change for HUM 359, and 387
- (vi) Units and description change for HUM 390
- (vii) Course number, description and equivalent statement changes for HUM 418

3. <u>Department of Philosophy</u>

(i) Deletion of Phil 477 and 478

4. <u>Department of Political Science</u>

(i) Equivalent statement changes for POL 443

5. Department of Psychology

- (i) Prerequisite change for PSYC 210
- (ii) Title change for PSYC 241
- (iii) Prerequisite and title change for PSYC 402

b. Beedie School of Business

(i) Prerequisite changes for BUS 393, 411, 473 and 474

c. Faculty of Communication, Art and Technology

- 1. School of Interactive Arts and Technology
- (i) Unit changes for IAT 309W, 312, 320, 333, 334, 336, 343, 344, 352, 359, 410, 431, 438, 443 and 445

d. Faculty of Environment

- 1. Department of Geography
 - (i) Prerequisite change for GEOG 251, 253 and 255 (Spring 2024)

e. Faculty of Science

- 1. Department of Earth Sciences
 - (i) Title, description and prerequisite change for EASC 420 (SCUS 22-72c)
 - (ii) Prerequisite change for EASC 313
- 2. <u>Department of Physics</u>
 - (i) Prerequisite change for PHYS 365

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 SU	JBJECT []	HIST NUMBER	433W	TITLE Italian Films, Italian Histo	ories
TYPE OF CH	I ANGES. Ple	ease type 'X' for the ap	propriate r	evision(s):	
Course number		Units		Prerequisite 🗵	
Title		Description		Equivalent ⊠ Statement	
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Fall 2023					



This course is taught by Dr. Paul Garfinkel. His appointment has transferred from the History department to Global Humanities and History has agreed to transfer this course from HIST to HUM as part of that transfer.



COURSE SUBJ	ECT HIST	NUMBER	445	TITLE	Problen History	ns in Modern Italian
TYPE OF CHAN	I GES. Please	type 'X' for the app	oropriate rev	ision(s):		
Course number		Units		Prere	equisite	\boxtimes
Title		Description		•	iivalent tement	
indicate added allows, drag the expand. Please specific course HIST HUM 44 Examines top nineteenth ar literature, prosee course ou credit only will	or new text to endpoint of review the "I components 5 - Problems ics in the social twentieth imary source then a different division his	EDITS. Indicate de using <u>underline</u> . If the text box to ma Equivalency staten if changing equivalent in Modern Italian sin Modern Italian hes, and/or art. Conther information. He topic is taught. Italiany. Students with	you need to eake it bigger, an ents" section alent statement History (4) ultural history istory and cuptent may vary HUM 445 Prerequisite:	enter mor as it will r n under <u>Ir</u> ent(s). Ty of Italy lture through from off 5 may be a 45 units.	in the bugh film, fering to directed including	an the box natically on about offering. for s nine
_		AR FOR CHANGES ar (please enter in				



This course is taught by Dr. Paul Garfinkel. His appointment has transferred from the History department to Global Humanities and History has agreed to transfer this course from HIST to HUM as part of that transfer.



COURSE SU	BJECT H	UM NUMBER	101W	TITLE Introduction to the Humanities
TYPE OF CHA	ANGES. Plea	ase type 'X' for the app	propriate r	revision(s):
Course number		Units		Prerequisite
Title		Description	\boxtimes	Equivalent \square Statement
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Fall, Spring, S		YEAR FOR CHANGES year (please enter in		
Fall 2023		J		



Changing the title of the department's introductory course to reflect the new department name: Global Humanities.



1 of 1 page

COURSE SUBJECT	HUM	NUMBER	103	TITLE	The Invention of the Book: Alphabets, Papyrus,
RATIONALE (must be	e included)				
Since the retirem and there are no				o longer	r a faculty member who can teach this course
EFFECTIVE TERM A Fall, Spring, Summer			Fall 2023		
PLEASE DO THE FO	LLOWING:				
Office (stud 2. Once you requirement 3. If more modification	cal@sfu.ca) for a ou have the progents. substantial changon form.	n program in gram impact ges are requ	mpact list. t list, please revie	ew how o	n form. Contact the Senate and Academic Services deleting this course affects each program's ult of this deletion, please also submit a program gram requirements, please list those programs in the

5. Lastly, please conduct a course impact analysis, which 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.



COURSE SU	ВЈЕСТ	HUM NUMBEI	R 277	TITLE History of Greek Civilization
TYPE OF CHA	ANGES. Ple	ease type 'X' for the ap	propriate	e revision(s):
Course number		Units		Prerequisite
Title		Description		Equivalent Statement
indicate adde allows, drag to expand. Pleas specific cours Surveys the century Rotataken HIST	ed or new to the endpoint se review to se componer whistory of man Republished.	ext using <u>underline</u> . If nt of the text box to m he "Equivalency state ents if changing equiv Greek civilization fro olic's conquest of the (f you need ake it big ments" se valent sta m Mycen Greek city	changed text using strike through, I to enter more text than the box ger, as it will not automatically ection under Information about tement(s). aean Greece to the twentieth -states. Students who have 77 may not take this course
_		YEAR FOR CHANGE d year (please enter i	_	
Fall 2023				



The altered course description is required due to three developments. First, HUM 110 already provides the long-term perspective previously covered by HUM 277. Second, the narrower chronological focus of HUM 277 will bring it into alignment with our other second-year course offerings in the Hellenic Studies Certificate, which also possess narrower rather than broader chronological focuses (e.g., Antiquity or the modern age). Lastly, the narrower chronological focus will help highlight the linkages between Ancient Greece and the global resonance of its world in clearer ways. Given the Department of Global Humanities' focus on such points, the course will provide a solid foundation for our other offerings at the upper-division level.



COURSE SUBJECT	HUM	NUMBER	349	TITLE	Rome after Rome: The Byzantine Middle Ages from the end of Antiquity to the Crusades (4)
TYPE OF CHANGES	S. Please type '	X' for the app	oropriate rev	vision(s):	
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Title \square	D	escription			quivalent □ tatement
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The history of the Ages. The course cultural history of to the Carolingian and the ascent of lower division his 317, HS 349 or HI Humanities.	Crusades (4) Medieval Ronfamiliarizes st Byzantium fr s, the Crusade the Seljuk Tur story. Students	nans and the udents with om the rise c es, the emerg ks. Prerequis	ir polity surv the social, po of the Calipha ence of the I site: 45 units for HIST 308	veys the " olitical, ed ate in the talian ma talian ma talian ma talian ma	other" Middle conomic, and seventh century aritime republics of HIST 317, HS
EFFECTIVE TERM Fall, Spring, Summe					
	ed exclusively	_			partment and is no longer units of lower division

history" HUM declared students are not able to enroll in the course and the lower division history courses are not necessary to meet the curricular requirements of the course.

As well, removing the lower division history requisites aligns HUM 349 with other upper

division HUM courses (45 units).

2016

COURSE SUBJECT	HUM NUMBER	359	TITLE	Constructing the Nation State in Greece, the Balkans and the Mediterranean
TYPE OF CHANGES. F	Please type 'X' for the app	ropriate revi	sion(s):	
Course \square number	Units		Prere	equisite 🗆
Title ⊠	Description			tivalent □ tement
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Investigates the con Mediterranean with specific cases such a	ing the Nation State in Gr struction of nation states a focus on the ideas of th is Greece, Yugoslavia, Bul ts. Students with credit foredit.	in Greece, the Nation and garia, and th	ne Balkan l the Nati e develor	is and the on State. Examines oment of Israel.
	ND YEAR FOR CHANGES and year (please enter in	textbox)		



The change was initiated by the HIST department for the equivalent course HIST 359 for the following reason: "The change will broaden the scope and appeal of the course to students without materially changing it."



COURSE SU	IBJECT	HUM NUMBER	387	TITLE Selected Topics in Europea Art and Cultures	ın
TYPE OF CH	ANGES. P	lease type 'X' for the ap	propriat	te revision(s):	
Course number		Units		Prerequisite	
Title		Description		Equivalent Statement	
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_		D YEAR FOR CHANGES nd year (please enter ir		x)	



Global humanities, including broader consideration of transnational and cross-cultural relevance of regional histories.



COURSE SU	вјест н	UM NUMBER	390	TITLE Directed Studies in Humanitie	S
TYPE OF CHA	ANGES. Plea	se type 'X' for the app	propriat	e revision(s):	
Course number		Units	\boxtimes	Prerequisite	
Title		Description	\boxtimes	Equivalent Statement	
indicate adde allows, drag t expand. Pleas specific cours Prerequisit chair plus p towards a decention of the cours of th	ed or new textine endpoint se review the se componer e: Two of an other ermission of legree and is	at using <u>underline</u> . If the text box to make "Equivalency staten ats if changing equivalency 300-division human finstructor. This cou	you need le it big nents" so alent sta nities conse may ities may	ourses or permission of the be used only once for credit jor, joint major, extended	
_		YEAR FOR CHANGES year (please enter in		(x)	



Adding the variable units allows student more flexibility in how they wish to design their directed studies in consultation with faculty.



COURSE SU	JBJECT [HUM	NUMBER	418	TITLE		Go Global: From e to Atwood
TYPE OF CH	ANGES. P	lease type 'X'	for the app	ropriate rev	rision(s):		
Course number		Uni	its		Prere	equisite	
Title		Des	scription		•	iivalent tement	
wording/lindicate addallows, drag expand. Plea	ed or new the endpo se review	text using <u>ur</u> int of the tex the "Equival	nderline. If y t box to ma ency statem	ou need to e ke it bigger, ents" section	enter mor as it will r n under <u>I</u> 1	e text that not autom	n the box atically
Studies Gro internation and discon contextual philosophy HUM 418,	eek male a nal a trans tinuities o izes the af 7, and liter HS 418 or	ks Go Global and female an national consolit the represe orementione ary theory. P HUM 480 or ay not take the	rchetypes, t text. Offers entations of ed contextua rerequisite HS 403 und	exts and ide a critical ana Greek cultur alized in gen : 45 units. St der the title '	as concep alysis on the ral referent der <u>theor</u> audents w 'After Mo	he continunces, and y, politics, ith credit	, for
EFFECTIVE Fall, Spring,				textbox)			
Fall 2023							



The description better reflects the themes and approaches of the new concentrations in the Global Humanities Department. Course materials will be examined within a broader cultural context and theoretical framework.

Course number change to lower perceived enrollment barrier for non-HUM majors and to reflect the accessibility of this course to non-HUM students.



1 OF 1 PAGE

COURSE SUBJECT	PHIL	NUMBER	477	TITLE Hor	nours Tutoria	al I	
RATIONALE (must be	e included)						
This course will	no longer be re	quired, on	nce the modific	ations have	been made t	to the Honour	s Program.
EFFECTIVE TERM A Fall, Spring, Summe			Fall 2023				
PLEASE DO THE FO	LLOWING:						
Office (sfur 2. Once you requirement 3. If more modification	cal@sfu.ca) for a put have the prognts. substantial change form.	program in ram impact ges are requ	mpact list. t list, please revie	w how deleting as a result of	ing this course	e affects each p	

5. Lastly, please conduct a course impact analysis, which 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.



1 OF 1 PAGE

COURSE SUBJECT	PHIL	NUMBER	478	TITLE Hon	ours Tutorial II		
RATIONALE (must be	e included)						
This course will 1	no longer be re	quired, or	nce the modific	ations have b	peen made to th	e Honours Prog	gram.
EFFECTIVE TERM A lFall, Spring, Summer			Fall 2023				
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5. Lastly, please conduct a course impact analysis, which 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.

SENATE COMMITTEE ON UNDERGRADUATE STUDIES

COURSE SUBJE	СТ	POL	NUMBER	443	TITLE	Grey Zone Warfare and International Security in the Age of Disruptive Technologies (4)	
TYPE OF CHANG	GES. Ple	ease type 'X'	for the app	ropriate revi	sion(s):		
Course number		Uni	ts		Prere	equisite 🗆	
Title		Des	scription			nivalent ⊠ tement	
indicate added o allows, drag the expand. Please respectific course course course course an ov	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). Provides an overview of how great powers (e.g., Russia, USA), smaller states (e.g., Iran and North Korea), and non-state actors employ nuclear threats and other						
traditional inti (e.g., Artificial l Whereas tradit disinformation	midation intelligational management in the control of the control	on technique ence, Social nilitary thre nage, and vio ish their stra Zone Warfar take this co	es alongside Media, Cybe ats are issue olence utiliz ategic object e and Secur urse for aca	emerging "cer, Big Data) ed openly, gree ambiguity, tives. Studer ity in the Agdemic credit	lisruptive to coerce ey zone t strategic nts who h e of Disru Prereq	e" technologies e one another. factics of c surprise and fave taken POL fully the surprise and faction of the surp	
Fall, Spring, Sum	EFFECTIVE TERM AND YEAR FOR CHANGES Fall, Spring, Summer and year (please enter in textbox)						
Fall 2023 RATIONALE (m)	ust be i	ncluded)					
-	hange	ensures stu			OL 422 ui	nder this special topic	



COURSE SU	J BJECT P	SYC NUMBER	210	TITLE Introduction to Data Analin Psychology	ysis
TYPE OF CH	ANGES. Plea	ase type 'X' for the ap	propriate rev	vision(s):	
Course number		Units		Prerequisite 🗵	
Title		Description		Equivalent Statement	
indicate add allows, drag expand. Plea specific cour Prerequisi BC high scl course wit	ed or new te the endpoin se review th se compone te: PSYC 201 nool Math 11 h a C- (1.67)	xt using <u>underline</u> . If t of the text box to made "Equivalency staternts if changing equivalency and BC high schools with a minimum grad or FAN X99 taken at	you need to ake it bigger, ments" section ralent statem of Math 12 winde of B- (2.6 SFU with a n	th a minimum grade of C (2.0) or .7) or any level MATH or STAT	
Fall, Spring,		YEAR FOR CHANGES year (please enter in			
Fall 2023					



The instructors of Psyc 210 and the members of the quantitative area agree that Psyc 210 (research methods) does not contain content that is required to successfully complete Psyc 210 but can be completed concurrently. This will allow for greater flexibility for students such that they can more quickly declare their psychology major (which requires completion of Psyc 201 and 210).





SENATE COMMITTEE ON UNDERGRADUATE STUDIES

C	OURSE SUB	JECT	PSYC	NUMBER	241	TITLE	Introdu Psychol	ction to Abnormal logy
TY	PE OF CHA	NGES. Pl	ease typ	e 'X' for the ap	propriat	te revision(s):		
	ourse umber			Units		Prer	equisite	
Т	itle			Description		_	uivalent atement	
ind all ex	WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using strike through, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under Information about specific course components if changing equivalent statement(s). Introduction to Abnormal Psychology Psychological Disorders and Neurodiversity							
Fa		mmer ar	nd year (FOR CHANGES [please enter in		x)		
I V O t	There has be Deficit Hypervariations of country have textbook aut	en a broa ractivity behavio begun c hors are ournal of	ad shift i and Aut ur and n hanging conside	in the field awa ism as disorder leurodiversity. If the name of su ring name chan nal Psychology	rs or abi Many do ach cour ages, and to Jourr	normal to seei epartments of ses to better r d a major jour nal of Psychop	ng them a psycholog reflect cou nal has ch athology a	gy across the arse content, anged their





S EN A T E C O M MI T T E E O N U N D E R G R AD U AT E S TU D I E S

COURSE SU	IBJECT	PSYC NUMBER	402	TITLE	Advanced Topi and Theoretica	
TYPE OF CH	ANGES. P	Please type 'X' for the app	oropria	ate revision(s):		
Course number		Units		Prere	equisite 🛚	
Title		Description		_	iivalent □ tement	
Advanced Course can credit if sin description	se review se compo Γopics in be repea nilar topic i. Prerequ	pint of the text box to may the "Equivalency staten nents if changing equivalency, Quantitative and ted for credit. Students res are covered. See Psychisite: PSYC 201, 210, 300 vary by topic offering.	nents" llent st d Theo nay no	section under Interest in the sectio	ogy PSYC 402 (4) se for further bsite for course	<u>t</u>
_	Summer a	ID YEAR FOR CHANGES and year (please enter in		ox)		



Updating course to encompass the Quantitative area as this is the upper division special topics course for the History, Quantitative and History area. We are removing the prerequisite of psyc 308 (History of Psychology) as it is not required for iterations of this course that focus on quantitative topics. Psyc 207 is defunct.



COURSE MODIFICATION FORM

	ANGES. FIE	ase type 'X' for the app	лорпац	e revision(s).	
Course number		Units		Prerequisite 🖂	
Title		Description		Equivalent □ Statement	
Common law, equity, and statute law; contracts, agency, and negotiable instruments; partnership and corporation law; international commercial law. Prerequisite: 45 units. BUEC 391 is not to be taken concurrently with BUS 393. Students with credit for COMM 393 may not take this course for further credit.					
Students w	vith credit fo	or COMM 393 may not	take this		
Students w	vith credit fo		take this	s course for further credit.	
Students w	vith credit fo	or COMM 393 may not YEAR FOR CHANGES	take this	s course for further credit.	
Students w EFFECTIVE Fall, Spring, S	rith credit for	YEAR FOR CHANGES d year (please enter in	take this	s course for further credit.	

SENATE COMMITTEE ON UNDERGRADUATE STUDIES

COURSE SU	ВЈЕСТ В	US NUMBE	R 411	TITLE	Fixed Income Security Analysis and Valuation		
TYPE OF CHA	ANGES. Plea	ase type 'X' for the ap	ppropriate re	evision(s):			
Course number		Units		Prere	equisite 🗵		
Title		Description		_	uivalent 🗌 tement		
indicate adde allows, drag t expand. Pleas specific cours As an introd covers: hist securities, i bonds, defin derivative s convexity n	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). As an introduction to the market valuation of fixed income securities, this course covers: history of fixed income securities; valuation methods for fixed income securities, including fixed and variable annuities, government and corporate bonds, defined benefit pension plans, bonds with contingencies, fixed income derivative securities; and, fixed income risk management using duration and convexity measures. Prerequisite: BUS 315 and BUS 360 BUS 360 W, both with a minimum grade of C-; 60 units.						
Fall, Spring, S Fall 2023 RATIONALE	ummer and	YEAR FOR CHANGE year (please enter i cluded)	in textbox)	replaced w	ith BUS 360W.		



(COURSE SUB	ЈЕСТ	BUS	NUMBER	473	TITLE	Advanced Operations Management
Т	YPE OF CHA	NGES. P	lease type 'እ	ζ' for the app	oropriate rev	ision(s):	
	Course number		Ur	nits		Prere	equisite 🗵
•	Γitle		De	escription		•	uivalent 🗆 itement
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	The systems approach to management of operations including the design, implementation, control and improvement of processes in order to grow social, environmental, and economic value for stakeholders involved in bringing goods and services to market. Prerequisite: BUS 373, BUS 360W, Students admitted prior to Fall 2022 with (BUS 373 or BUS 336), and BUS 360W, or students admitted Fall 2022 onwards with BUS 373 and BUS 360W, both with a minimum grade of C-; 60 units.						
	FFECTIVE TI all, Spring, Su		_				
	Fall 2023						
R	ATIONALE (1	must be	included)				
	BUS 373 was introduced as a program requirement for students admitted to the BBA program in Fall 2023 onward. Students admitted to the program prior to Fall 2022 are required to complete BUS 336 as part of their program requirements rather than BUS 373.						
		3 as a pr	e-requisite	for BUS 473	minimizes no	egative in	to use BUS 336 rather npacts on degree



COURSE SU	BJECT BU	JS NUMBER	BUS 47	74 TITLE Supply Chain Managemen
TYPE OF CI	HANGES. Plea	ase type 'X' for the ap	propriat	e revision(s):
Course number		Units		Prerequisite ⊠
Title		Description		Equivalent □ Statement
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Fall, Spring,		d year (please enter in		2)
Fall 2023 RATIONAL	E (must be in	 ncluded)		

BUS 373 was introduced as a program requirement for students admitted to the BBA program in Fall 2023 onward. Students admitted to the program prior to Fall 2022 are required to complete BUS 336 as part of their program requirements rather than BUS 373.

Allowing students admitted to the BBA program prior to Fall 2022 to use BUS 336 rather than BUS 373 as a pre-requisite for BUS 474 minimizes negative impacts on degree progression and provides students with greater access to BUS 474.

SIAT Proposal for Course Unit Changes and Program Requirements Changes

Final: November 25, 2022

Author: Marek Hatala (UCC Chair)

Summary

UG programs in Interactive Arts and Technology are known for their interdisciplinarity: a mix of theoretical, practical, and experiential learning, with a strong focus on technological proficiency across several key disciplines comprising design, interactive systems, and new media. Being grounded on advanced computational technologies, the undergraduate courses require students to master multiple complex computing tools to develop their thinking and demonstrate their knowledge and skills. Many courses rely on team projects to overcome the barrier posed by the complexity of the tools and drive the need for teamwork to develop even basic-level assignments in these complex environments. As a result, SIAT students spend a significant amount of time on their courses, leading to a very low average of the number of courses taken per semester. This negatively contributes to the long graduation time, which sits stubbornly at 15.9 semesters to graduate (17.7 for students admitted from high school).

These facts were recognized in SIAT for some time. In 2018 a large-scale undergraduate survey mapped the weekly workload across SIAT courses. However, it was after SFU Senate's guidance for course hours per unit that clearly positioned those results outside of the upper end of the recommended range. In this proposal, by increasing the unit count for several SIAT upper division courses, we aim to re-align course time expectations for SIAT students with other students at SFU. This also results in changes to the program requirements which are accompanying this proposal.

Background

SIAT programs have 787 majors and 101 minors (IRP, 2021/22). SIAT majors take a long time to complete their degrees (see Figure 1). Our analysis showed there are several reasons for students to graduate late, including low course availability to complete the requirements (due to low faculty complement to the number of majors and type of courses taught), students not pursuing other minors because of unavailability of lower division prerequisite courses on Surrey campus, and workload in SIAT courses resulting in SIAT students taking on an average lower number of courses per semester than in other schools (source: Andrea Barbera, FCAT Director of Advising).

	2017/18	20
All Completers:		
Average Semesters to Complete Degree	16.5	

7. Time to IAT Baccalaureate Degree Completion (by Completion Year)

Completers Admitted from Secondary:					
Average Semesters to Complete Degree	18.5	17.7	18.8	18.2	17.7
Completers Admitted from Post-Secondary:					
Average Semesters to Complete Degree	12.7	12.8	14.0	13.0	12.9

2019/20

17.4

2020/21

16.6

2021/22

15.9

Figure 1. IAT graduation times

To address the availability issue, SIAT increased the number of upper-division courses, mainly by using sessional instructors, which resulted in a drop in UD courses taught by CFL to 58% (2021/22). We saw a slight improvement in the graduation rates, but these were minimal. In 2018 we conducted workload related survey (Survey 1) where 76 students provided 435 course ratings. In preparation for the external review, in Spring 2022, we conducted extensive surveys of undergraduate students (Survey 2, n=322) and alumni (Survey 3, n=138), with one focus question related to the workload. We report on the findings in the next section.

Course Time Demands

As stated in the introduction, grasping content in many SIAT courses requires mastering complex design and media tools. As a result, most SIAT courses are run in the two-hour lectures plus two-hour tutorial/labs mode. Additionally, students are expected to develop competency in the tools by working through tutorials such as those on LinkedIn Learning. Although this supports the flipped mode of instruction where contact time is devoting to instructor/student interaction, it places a time burden on the student. Secondly, most courses require a significant team component due to the complexity of the development environments for students' projects (such as VR, animation, interactive prototyping, and gaming). The team component, due to its logistics demands, is the second driver for the increase in workload.

As a result of the course demands, Study 1 found that many courses exceed the recent SFU Senate recommendation of 2-3 hours per unit. Figure 2 shows the student-reported workload from Study 1 for IAT courses at 300 and 400 levels (the data and possible changes in the lower division are being discussed). At present, all courses except 499 are 3-unit courses.

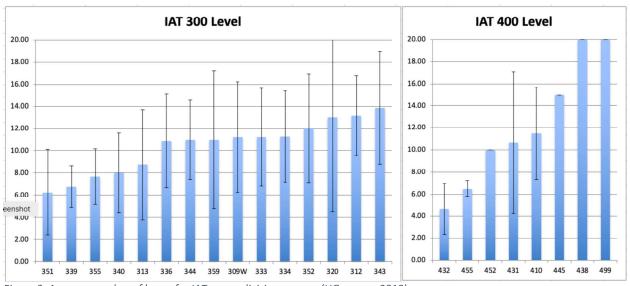


Figure 2. Average number of hours for IAT upper-division courses (UG survey, 2018)

The Spring 2022 survey asked the following question: 'Have you taken any SIAT courses where the amount of work was difficult to manage?'. 83.5% of students (269 out of 322 participants) answered affirmatively. The qualitative analysis of the answers found three main themes that contribute to unmanageable workload: course requirements and expectations, teamwork, and across-courses impacts (e.g., projects at the same time). One of the prominent themes from the alumni survey (Survey 3) pointed more directly to the solution, which showed concerns regarding course units being misaligned with the reality of the courses' workload.

To address the issue, we have examined each course indicated in all studies in which the workload did not align with SFU Senate's mandate of 2-3 hours per unit. In particular, we examined courses for potential overlaps and the pedagogical need for time-intensive team projects. After considering the adjustments, we advance the proposal for unit change to several IAT upper division courses and changes to the program requirements affected by the unit changes.

Proposal

Changes of course units

The units in the following courses should be set as follows shown in Table 1.

Table 1.	Proposed	unit assignment	for courses.

	From (units)	To (units)
IAT 309W	3	4
IAT 312	3	4
IAT 320	3	4
IAT 333	3	4
IAT 334	3	4
IAT 336	3	4
IAT 343	3	4
IAT 344	3	4
IAT 352	3	4
IAT 359	3	4
IAT 410	3	4
IAT 431	3	4
IAT 438	3	6
IAT 443	3	4
IAT 445	3	4

Note: The only course where we propose an increase to 6 units is IAT438. It is a studio-type course that functions as a capstone course for students with a focus on User Experience Design.

The projects developed in this course are substantial in nature and developed to the level of portfolio quality that enabled approximately three quarters of students to gain internships and/or employment in the industry. The student projects regularly win prices in professional user experience competitions such as Vancouver UX Design Industry Awards (2017 (2), 2018 (2), 2019 (1), and 2021 (1)). The average annual enrollment is approximately 40 students.

The units of the remaining 10 upper division courses are unchanged.

Changes to majors and second-degree program requirements

The change to course units affected several program requirements. The proposed changes aim to maintain the original mandate for SIAT programs, namely to provide interdisciplinary programs bridging computing, design, and media. With the increasing weight of individual courses, the minimum number of required courses will be lower, affecting the interdisciplinary mandate of the degree. This results in a change to the specification of the IAT UD requirements.

The current requirement of 30 IAT UD units, which worked together with the requirement of 24 units (BA or BSc) from the list of courses spanning two of three SIAT areas (media/design and design/interactive systems). With 3 unit courses and 30 IAT UD units requirement, the requirements warranted that students would have to take 9 courses from at least two disciplinary areas plus IAT309W. With the change of several courses to 4 units, and one course to 6 units, it would be possible to complete the degree with the 6+1 courses (6 could be from one area and IAT309W). The proposed change is to explicitly specify 9 required upper division courses (8 disciplinary courses + IAT309W), in addition to the requirement of a minimum of 30 units. The students may opt for a combination of 3 and 4-unit courses. If they choose only 3 unit courses and IAT309W, they will have to take 9 disciplinary courses (as it is the case at present), if they choose at least two other 4 unit courses, they can meet the requirements of 30 UD units and 9 required courses.

Changes to Honours programs

The changes to the Honours program mimic those outlined for the major.

Changes to Joint Major programs

Structurally, SIAT Joint Majors with Business and with Communication follow the same template. The requirement is based on taking 5 courses (15 units) from one of the concentrations and 6 additional UD units. The proposed change maintains the 21 UD unit requirement. The change replaces the 5-course requirement with a 15-units requirement.

Changes to the minor program No changes are required.

Attachments:

Program modification forms for 10 SIAT degrees.



COURSE MODIFICATION FORM

COURSE SU	ВЈЕСТ	GEOG NUMBER	251	TITLE Quantitative Geography					
TYPE OF CH	ANGES. Pl	ease type 'X' for the ap	propriat	ite revision(s):					
Course number		Units		Prerequisite 🗵					
Title		Description		Equivalent □ Statement					
indicate adde allows, drag expand. Pleas specific cours An introdu data. Topic linking sam relationshi	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 introduction to basic quantitative techniques for the collection of geographic data. Topics include describing data, gathering samples, theoretical distributions, linking samples and populations, testing significance, and exploring spatial relationships all within practical, real-world application contexts. Prerequisite: GEOG 100 or 111. Quantitative.								
	Summer ar	O YEAR FOR CHANGES nd year (please enter in		ox)					
RATIONALE		 ncluded)							
Past experi the course. GEOG and l	ience has s By removi FENV stud	hown that students wi	barriers	hese prerequisites are still able to excel ir s we would be better able to serve existin , and further contribute to other program	18				





COURSE SUI	ВЈЕСТ	GEOG	NUMBER	253	TITLE	Introdu Sensing	ction to Remote	_
TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):								
Course number		U	nits		Prere	equisite		
Title		D	escription		-	iivalent tement		
and platform and a review	he endpo e review e compo ction to t ms, imag w of rem	oint of the to the "Equivonents if characteristics he theories se collection ote sensing	ext box to maralency stater anging equivand practice preliminary applications	ake it bigger, nents" sectio	as it will in under In under Internites). ensing, in sis and internites	not autom nformation cluding so terpretat nitoring a	ensors ion,	
EFFECTIVE T Fall, Spring, S	ummer a							
Spring 2024	1							
course. By r	ence has emoving tudents,	shown that g this prerec attract new	quisite barrie enrollments		oe better a	able to se	able to excel in the rve existing GEOC r programs	





COURSE SU	ВЈЕСТ	GEOG	NUMBER	255	TITLE	Geographical Information Science I		
TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):								
Course number			Units		Prere	equisite ⊠		
Title			Description		-	uivalent 🗌 atement		
allows, drag to expand. Please specific course. A basic over hardware, or practical approximately approximately allows, drag to expand. Please specific course.	the endpose reviews se composerview of data strue of instruents of instr	oint of the	text box to maivalency statem hanging equivalical Information models; spatistications. Prerections with creditations of the second models with creditations of the second models with creditations.	ke it bigger, nents" sectio alent stateme n Systems an al data, oper puisite: GEO	as it will in under <u>I</u> ent(s). nd Science ations and <u>G 100 or 1</u>	11 or		
	lummer a		FOR CHANGES please enter in					
RATIONALE		included	1					
Past experient the course.	ence has By remo FENV stu	shown th ving these dents, attr	at students wit prerequisite b act new enroll	arriers we v	vould be l	tes are still able to excel in better able to serve existing ntribute to other programs		



COURSE MODIFICATION FORM

COURSE SU	вјест [EASC NUMBE	R 420	TITLE Petroleum Geology				
TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):								
Course number		Units		Prerequisite 🗵				
Title		Description	\boxtimes	Equivalent \square Statement				
FROM: EAS Elements of trapping main the substant demons developmed Covers all environment geothermal exploitation. TO: EASC 4 Covers all environment geothermal environment geothermal environment geothermal environment geothermal geothermal geothermal geothermal geothermal environment geothermal	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 FROM: EASC 420 Petroleum Geology Energy Geosystems Elements of the petroleum system, including basin type, source rock origination, migration, and trapping mechanisms. Techniques used to identify and map potential hydrocarbon reservoirs in the subsurface, including geophysical methods, surface mapping, well log correlation, and core/chip sample descriptions will be discussed. This material will be presented in a context that demonstrates the life cycle of a hydrocarbon field from exploration (early), delineation (assessment), and production (mature) stages. Datasets available during different stages of development will be discussed in light of their pertinence to optimal reservoir performance. Covers all aspects of subsurface energy resource extraction and its impacts on the environment. Topics covered may include blue hydrogen resources, CO2 sequestration, LNG, geothermal energy, conventional and unconventional hydrocarbon exploration and exploitation, fracking, waste-water disposal, land fragmentation, and climate change. Prerequisite: EASC 201, EASC 207-302 or EASC 312, and EASC 304. All with a grade of C- or							
Prerequisi	te: EASC 30	2 or EASC 312, and E	EASC 304.	. All with a grade of C- or better.				

Page 2 of 2

expand. Please review the "Equivalency statements" section under <u>Information about specific course components</u> if changing equivalent statement(s).

EFFECTIVE TERM AND YEAR FOR CHANGES

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

RATIONALE (must be included)

Over the past 8 years, interest in Petroleum Geology has waned considerably, even though subsurface energy extraction continues to provide most of the energy and raw materials for products used globally. The proposed change to the course title is intended to more clearly convey that this course evaluates more than petroleum resources. Over the years, the EASC 420 course has progressively included the closely related topics of CO_2 sequestration, fracking, unconventional resources, and LNG.

The revisions to the course description for EASC 420 updates and modernizes the wording of course content already being delivered to students. These course description changes more explicitly state the wide range of subsurface energy resources about which the students will learn. The description also makes it clear that the benefits and drawbacks associated with each form of energy extraction will be discussed.

Be aware that more than 90% of the overall course content remains essentially the same as that previously delivered. The proposed changes require only minor revisions to several of the existing lectures and the addition of 2 new lectures that will be focused on lithium brines and geothermal energy. Furthermore, there are no changes being made to the laboratory component of the course, as the techniques employed for evaluating the subsurface remain the same, regardless of the energy resource being evaluated.

The changes to the prerequisites are intended to expand the accessibility of EASC 420 to Earth Science students, as the course is offered only every second year. The areas of background knowledge deemed necessary for successful completion of EASC 420 include: 1) sedimentology (EASC 302) and/or stratigraphy (EASC 312), and 2) subsurface fluid flow (EASC 304). Note that EASC 201 is a prerequisite for *both* EASC 302 and EASC 312, and so needs not be included in prerequisite list.

COURSE MODIFICATION FORM



resources sector.

SENATE COMMITTEE ON UNDERGRADUATE STUDIES

Page 1 of 2

COURSE SUBJECT	E	ASC NUMBER	313	TITLE	Introduction to Soil and Rock Engineering
TYPE OF C	HANGES.	. Please type 'X' for t	he appropri	ate revisio	on(s):
Course number		Units		Prereg	uisite 🗵
Title		Description		•	valent 🗆 ement
An introdu field measu	ction to the	f soil and rock proper	es and behav	vior of soil	and rock. Laboratory and gineering design will be tions and underground

Prerequisite: EASC 101, 204 or permission of the instructor. All, with a grade of C- or better.

excavations. Emphasis will be placed on the importance of soil and rock mechanics in the

TO: EASC 313 Introduction to Soil and Rock Engineering

An introduction to the engineering properties and behavior of soil and rock. Laboratory and field measurements of soil and rock properties. Applications in engineering design will be illustrated with case studies of slope stability, road design, foundations and underground excavations. Emphasis will be placed on the importance of soil and rock mechanics in the resources sector.

Prerequisite: EASC 204 with a grade of C- or better.

COURSE MODIFICATION FORM



Page 2 of 2

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).

EFFECTIVE TERM AND YEAR FOR CHANGES

Fall, Spring, Summer and	year (please e	nter in t	extb	ox)
Fall 2023					

RATIONALE (must be included)

EASC 101 is a prerequisite for EASC 210, which is the prerequisite for EASC 204 and therefore listing it is unnecessary. This clarifies the prerequisite for students, many of whom believed that "EASC 101, 204 or permission of the instructor" could be read as "EASC 101 or EASC 204".



COURSE SUE	BJECT	PHYS	NUMBER	365	TITLE	Semiconductor Device Physics		
TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):								
Course number		U	Inits		Pre	requisite 🗵		
Title		D	escription			quivalent 🗆 catement		
indicate adde allows, drag expand. Pleas specific cours Structure a operation of Corequisite permission	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). Structure and properties of semiconductors, semiconductor theory, theory and operation of semiconductor devices, semiconductor device technology. Corequisite: PHYS 285; and PHYS 321; both with a minimum grade of C-, or permission from the department. Students with credit for ENSC 224 or ENSC 324 may not take PHYS 365 for further credit. Quantitative.							
Fall, Spring, S Fall 2023 RATIONALE PHYS 285 8	Gummer (must l	e and year (p		textbox)	few year	s ago without removing		