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MEMORANDUM -

ATTENTION Senate

FROM Elizabeth Elle, Vice-Chair

Senate Committee on Undergraduate

Studies

RE: Course Changes (SCUS 22-49, 22-50) DATE

September 16, 2022

PAGES

Elmalet Elle

For information:

Acting under delegated authority at its meeting of September 15, 2022 SCUS approved the following curriculum revisions effective Summer 2023.

a. Faculty of Applied Sciences

- 1. School of Sustainable Energy Engineering
 - (i) Equivalent statement changes for SEE 241
 - (ii) Prerequisite change for SEE 325 and 464
- 2. School of Engineering Science
 - (i) Prerequisite change for ENSC 220

b. Faculty of Communication, Art and Technology

- 1. School of Interactive Arts and Technology
 - (i) Equivalent statement changes for IAT 106

c. Faculty of Environment

- 1. Department of Geography
 - (i) Prerequisite changes for GEOG 241 and 365

d. Faculty of Science

1. Department of Mathematics

- (i) Equivalent Statement changes for FAN X99
- (ii) Description change for MATH 302, 303 and 304 (Fall 2023)
- (iii) Prerequisite changes for MATH 343, 345, 443,467 and 470 (Fall 2023)

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.



TYPE OF CHANGES. Please type 'X' for the appropriate revision(s): Course	COURSE SUBJECT	SEE NUMBER	241	TITLE Measurement, Analys Forecasting	is and
Title □ Description □ Equivalent ⊠ Statement WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using strike through, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under Information about specific course components if changing equivalent statement(s). An introduction to methods for collecting and analysing engineering data. Topics include engineering data representation, probability density functions, engineering measurements, error analysis, test of hypotheses, regression, and design of experiments. Prerequisite: PHYS 141, MATH 232. Corequisite: MATH 251. Students with credit for ENSC 280 and MSE 210, or STAT 270 may not take this course for further credit. EFFECTIVE TERM AND YEAR FOR CHANGES Fall, Spring, Summer and year (please enter in textbox)	TYPE OF CHANGES.	Please type 'X' for the ap	propriate revis	sion(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 introduction to methods for collecting and analysing engineering data. Topics include engineering data representation, probability density functions, engineering measurements, error analysis, test of hypotheses, regression, and design of experiments. Prerequisite: PHYS 141, MATH 232. Corequisite: MATH 251. Students with credit for ENSC 280 and MSE 210, or STAT 270 may not take this course for further credit. EFFECTIVE TERM AND YEAR FOR CHANGES Fall, Spring, Summer and year (please enter in textbox)		Units		Prerequisite \square	
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SEE 241 has a lab component and is taught by a P.Eng. designated instructor, which is an important factor in the accreditation process.





COURSE SU	BJECT GEO	NUMBER	241	TITLE People, Place, Society					
TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):									
Course number		Units		Prerequisite ⊠					
Title		Description		Equivalent \square Statement					
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Summer 20)23								



Given that spatial concepts taught in GEOG 100 are reviewed at the beginning of the course, these additional introductory Sociology, Anthropology and Indigenous Studies courses would also be acceptable prerequisites.





COURSE SU	ВЈЕСТ	GEOG NUME	365	TITLE	Race, Re Space	esistance & Urban				
TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):										
Course number		Units		Prere	quisite					
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	ummer a	D YEAR FOR CHAN nd year (please ente)						



Experience has shown that GEOG 100 is not necessary. Relevant conceptual material is provided in the course, that covers the ground that would be provided by GEOG 100.



COURSE SUI	ВЈЕСТ	SEE	NUMBER	325	TITLE		nical Design and Finite t Analysis
TYPE OF CHA	ANGES.	Please type 'X	" for the app	propriate revi	ision(s):		
Course number		Un	nits		Prere	quisite	
Title		De	scription		•	ivalent tement	
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The change SEE 325.	is sugge	ested by the c	ourse instru	ector. Topics	covered i	n SEE 22	2 is not relevant to



COURSE SU	ВЈЕСТ	SEE	NUMBER	464	TITLE	Energy Systems Modeling for Buildings		
TYPE OF CHA	ANGES.	Please type 'X	" for the app	oropriate re	evision(s):			
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mechanical standards to sustainabili innovative r 352, SEE 32	Introduction to modelling energy systems for buildings, focusing on the envelope and mechanical systems, and their effects on energy use. Using the applicable codes and standards to define schedules for the buildings, calculate heating and cooling loads, and set sustainability targets. Applying industry standard software to model, and experiment with innovative methods to enhance energy use, and reach sustainability targets. Prerequisite: SEE 352, SEE 324 and SEE 310 and SEE 324. MSE students who completed MSE 321 can take this course upon approval of the course instructor.							
EFFECTIVE T Fall, Spring, S								
Summer 20 RATIONALE		e included)						
	r knowle	edge required	l for the cou	rse is cove	red in SEE 3	324 and SEE 352 is not a proper		





SENATE COMMITTEE ON UNDERGRADUATE STUDIES

COURSE SU	J BJECT E	NSC NUMBER	R 220	TITLE Electric Circuits I
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_		YEAR FOR CHANGE I year (please enter i	_	
Summer 20			,	







MATH 232 is a pre-requisite for MATH 260.	



COURSE SU	IBJECT IA	T NUMBER	106	TITLE Spatial Thinking and Communicating
TYPE OF CH	ANGES. Pleas	se type 'X' for the app	oropriate i	revision(s):
Course number		Units		Prerequisite \square
Title		Description		Equivalent 🗵 Statement
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Fall, Spring, Summer 20 RATIONALE It was brou "Engineeri indicating members v	Summer and 023 (must be included in the cour at any Graphics at that IAT 106 who teach IAT	tention that the Scho and Software for Desi cannot be taken for f	ol of Susta gn" (SEE a urther cre the SEE 10	ninable Energy Engineering's 100) course has a statement edit. After discussion with the faculty 00 course materials it was determined





BJECT FAI	N NUMB	ER X99	TITLE	Foundations of Analytical and Quantitative Reasoning
ANGES. Please	e type 'X' for the a	appropriate	revision(s):	
	Units		Prere	equisite \square
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UNDERGRADUATE STUDIES Page 1 of 1

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COURSE SUBJI	ECT MA	NUMBER	303	TITLE	Mathematical Journeys III (
TYPE OF CHAN	GES. Pleas	e type 'X' for the app	ropriate revi	ision(s):	
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SENATE COMMITTEE ON UNDERGRADUATE STUDIES

COURSE SU	вјест 🛚	MATH NUM	BER 304	TITLE	Mathematical J	ourneys IV (3
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JBJECT	MATH NUMBI	ER 343	TITLE	Applied (3)	Discrete Mathematics
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udents in -	the majority being	students w	ho took MACN	/I 201 in	their first-year
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Page 1 of 1

Minimum grade requirement no longer of importance. Recent instructors have been waiving students in --- the majority being students who took MACM 201 in their first-year and who have realized a greater interest in more theoretical ideas by their third-year.

COURSE SU	IBJECT	МАТН	NUMBER	345	TITLE	Introduction to Grap (3)	oh Theo
TYPE OF CH	ANGES. I	Please type '	X' for the ap	propriate	revision(s):		
Course number		Ui	nits		Prere	equisite 🗵	
Title		De	escription		_	ivalent □ tement	
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SENATE COMMITTEE ON UNDERGRADUATE STUDIES

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TYPE OF CH	ANGES. Ple	ase type 'X' for the app	ropriate	revision(s):
Course number		Units		Prerequisite ⊠
Title		Description		Equivalent □ Statement
Design the squares, fir Polya coun and MACM and either	se compone ory: Steiner nite geomet ting. Prerec 201 with a MATH 343 L. Quantitati	triple systems, balanceries. Enumeration: genulusite: MATH 340 or 3 grade of at least B Mount of the minimum grade	ed incomerating for the state of the state o	ement(s). aplete block designs, latin unctions. Burnside's Lemma, a minimum grade of C- b, with a minimum grade of C- MACM 201 with a minimum
FFFFCTIVE '		YEAR FOR CHANGES		
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Fall, Spring, S	Summer and	d year (please enter in	textbox)	





SENATE COMMITTEE ON UNDERGRADUATE STUDIES

COURSE SU	JBJECT [MATH NUMBER	467	TITLE Dynamical Systems (3)			
TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):							
Course number		Units		Prerequisite ⊠			
Title		Description		Equivalent Statement			
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Fall 2023							
RATIONALE	(must be	included)					
	-	ly renumbered to MATI ve since taken MATH 2		Fall 2020. Prerequisite updated to			



COURSE SUBJ	ECT MATE	H NUMBER	470	TITLE Variational Calculus (3	3)			
TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):								
Course number		Units		Prerequisite 🗵				
Title		Description		Equivalent \square Statement				
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EFFECTIVE TERM AND YEAR FOR CHANGES Fall, Spring, Summer and year (please enter in textbox)								
Fall 2023								





MATH 310 was simply renumbered to MATH 260 for Fall 2020. Prerequisite updated to include those who have since taken MATH 260.