

### OFFICE OF THE ASSOCIATE VICE-PRESIDENT, ACADEMIC

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MEMORANDUM

ATTENTION

Senate

DATE

July 9, 2021

FROM

RE:

Elizabeth Elle, Vice-Chair

1/1 PAGES

Senate Committee on

**Undergraduate Studies** 

Course Changes (SCUS 21-55)

## For information:

Acting under delegated authority at its meeting of July 8, 2021 SCUS approved the following curriculum revisions effective Summer 2022.

### a. Faculty of Applied Sciences

## 1. School of Mechatronics Systems Engineering

- (i) Description and prerequisite changes for MSE 300
- (ii) Equivalent statement change for MSE 411
- (iii) Prerequisite change for MSE 498

### **b.** Faculty of Environment

### 1. School of Environmental Science

- (i) Unit change for EVSC 201W
- (ii) Prerequisite change for EVSC 305

### 2. School of Resource and Environmental Management

- (i) Prerequisite change for SD 381 and 481
- (ii) Prerequisite changes for PLAN 300, 302, 400, 406, 408 and 443

### c. Faculty of Science

### 1. <u>Department of Biological Sciences</u>

(i) Prerequisite change for BISC 435 (Fall 2022)

## 2. Department of Biomedical Physiology and Kinesiology

(i) Title and description change for BPK 303

Senators wishing to consult a more detailed report of curriculum revisions may do so on the Senate Docushare repository at <a href="https://docushare.sfu.ca/dsweb/View/Collection-12682">https://docushare.sfu.ca/dsweb/View/Collection-12682</a>.



COURSE SUBJ	ECT 1	MSE NUI	<b>MBER</b> 30	0 TITLE The B	Business of Engineeri
TYPE OF CHAN	I <b>GES.</b> Ple	ase type 'X' for t	he appropr	iate revision(s):	
Course number		Units		Prerequisite	X
Title		Description	x	EquivalentStatem	ent □
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analysis, mult inflation, dep optimization.	ti-attribu reciation Prerequ 1, ENSC	te utility theory, , tax, financial ar isite: More than	discounted alysis, <del>unc</del> 75 <u>65</u> units	economics including: ga cash flow fundamental: ertaintly <u>uncertainty</u> and Students with credit fo may not take MSE 300	s, d or SEE
	nmer and	<b>YEAR FOR CHA</b> d year (please er		oox)	
RATIONALE(m	ust be in	l cluded)			
			MSE studer	nts who opt for flexible N	ASE curriculum.





ATE STUDIES Page 1 of 1

COURSE SUBJECT	MSE <b>NU</b>	MBER 41	1 TITLE	Capstone Design Technica Project II	ĺ
TYPE OF CHANGES	. Please type 'X' for t	the appropr	iate revision(s):		
Course  number	Units		Prerequisi	te 🗌	
Title $\square$	Description	n 🗆	Equivalent	Statement X	
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Summer 2022			,		
RATIONALE(must b	pe included)				
There was a typo i	n the course numbe	er.			





COURSE SU	ВЈЕСТ	MSE	NUMBER	498	TITLE		nic Systems ng Thesis Propo	osal
TYPE OF CH	<b>ANGES.</b> I	Please type 'X'	for the app	ropriate rev	ision(s):			
Course number		Units		Pre	erequisit	9	X	
Title		Descrij	otion 🗆	Eq	uivalentS	Statement		
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Fall, Spring, S Summer 20 RATIONALE	Summer a 022 (must be ike to pr	ovide more fle	se enter in t		s who wo	uld like to s	tart the	



COURSE SU	BJECT	EVSC <b>NUMBER</b>	201W	TITLE	Environi Practice	mental Science in
TYPE OF CH	<b>ANGES.</b> Ple	ease type 'X' for the app	oropriate	revision(s):		
Course number		Units	$\boxtimes$	Prere	equisite	
Title		Description			uivalent Itement	
allows, drag expand. Pleas specific cours	the endpoinse review these review these components of the componen	ext using <u>underline</u> . If yet of the text box to make "Equivalency statements if changing equivalence in Practical Science in Practical YEAR FOR CHANGES	ke it bigg nents" see alent stat	ger, as it will in ction under <u>I</u> ement(s).	not autom	atically
Spring 202		d year (please enter in	CALDOA			



This course has been re-designed to use 3 contact hours: 1 hour of lecture-style content and 2 hours of hands-on tutorial/workshop-style exercises where students work in small teams. The course is driven more by writing skill development and experiential learning than by delivery of content, so this change reflects the associated reduction in "lecture" hours. The change also more accurately reflects the workload in the course, which is consistent with other 3-unit courses in SES.





SENATE COMMITTEE ON UNDERGRADUATE STUDIES

COURSE SU	JBJECT	EVSC NUME	<b>BER</b> 305	TITLE	Methods in Environment Science	nta
TYPE OF CH	ANGES. 1	Please type 'X' for the	appropriate	revision(s):		
Course number		Units		Prere	equisite 🗵	
Title		Descriptio	on 🗆	_	ivalent 🗆 tement	
indicate add allows, drag expand. Plea specific cour Introduces Science. Pr	ed or new the endp se review se compo EVSC stu erequisit	v text using <u>underline</u> oint of the text box to v the "Equivalency sta onents if changing equidents to lab and field e: EVSC 100 and 50 to	e. If you need o make it bigg atements" security alent stated methods us on its of credit	to enter more ger, as it will notion under Ir ement(s).  ed in the stude in the environ	not automatically nformation about ly of Environmental	
	Summer	ND YEAR FOR CHAN and year (please ente				1



Students do not take 50 units of EVSC courses. The intention was that students take 50 units of courses required for the EVSC major or honours program, however to administer that intention would need a great amount of administration and coding individual courses.



COURSE SUBJECT		SD <b>NUMBER</b>		381 <b>TITLE</b>		Building Sustainable Communities	
TYPE OF CHAN	IGES.	Please type ''	X' for the app	propriate rev	vision(s):		
Course number		Ur	nits		Prei	requisite	
Title		D€	escription			uivalent atement	
allows, drag the expand. Please is specific course of SD 381 - Build Engages stude and city level, development. If around the work Prerequisite: Coredit for SCD Breadth-Social	revieved composition of taking Explored for One of 301 composition.	w the "Equiva onents if cha ustainable Co understanding g into consider res and analyz engaging peo PLAN 100, Por REM 301 o	mmunities (4 g how to plan ration the envices policy insti ople and institution (LAN 200, RI	and cultivate vironmental, etruments, plattutions in bui	e sustainal economic, nning too lding sust D 281; ar	pility at the and social ls, and strat ainable cond 45 units.	community aspects of egies from munities. Students with
EFFECTIVE TELE Fall, Spring, Sur	nmer						
RATIONALE (m		e included)					
Due to a cours prerequisites f equivalent cou	for SI	) 381 need to	be updated	to include I	PLAN 20	0 since it	is an



COURSE SU	<b>BJECT</b> SI	NUMBER	481	TITLE	Sustainab Leadersh	oility Governance a
TYPE OF CH	I <b>ANGES.</b> Ple	ase type 'X' for the app	propriate re	evision(s):		
Course number		Units		Pre	requisite	
Title		Description			quivalent tatement	
SD 481 - Su Engages str scales and context and influence n sustainabil Prerequisit	use review the secompone astainability of the secompone at a constant of the secompone at a cross differentiational and it ity action, ho ity initiatives are: One of PL	at of the text box to mane "Equivalency statements if changing equivalency statements if changing equivalence and Leaders derstanding critical contact to policy, manager erent sectors (thinking international governance) when the change happens, the sectors for how AN 100, PLAN 200, Report or REM 401 or REM 48	nents" secticalent staten hip (4) ncepts and is ment, leader about how le ce). Explores e role of diffe w to create of EEM 100, or	on under ment(s).  ssues of surship, and gocal movers and analyerent levels change in t	stainability governance ments can c yzes the his s of governa he future. nd 60 units	at different in a range of come to tory of ance, current . Students
Fall, Spring, Summer 2	Summer and	YEAR FOR CHANGES d year (please enter in				
prerequisi	ourse numb tes for SD 4	per change for PLAN 81 need to be updated PLAN 100 and which	d to include	PLAN 2	00 since it	is an



COURSE SU	BJECT PI	LAN <b>NUMBE</b>	<b>R</b> 300	TITLE Methods for Planning Analysis						
TYPE OF CI	<b>HANGES.</b> Ple	ase type 'X' for the a	ppropriat	e revision(s):						
Course number		Units $\square$ Prerequisite $\boxtimes$								
Title		Description □ Equivalent □ Statement								
expand. Pleaspecific cou  PLAN 30  Explores urban and relevant dand within in researc Processes	ded or new to the endpoin ase review the recomponer o – Methods the qualitative derigional set lata and appropriate and technique and technique	ext using underline. It of the text box to refer the "Equivalency statements if changing equivalency of the Planning Analytic and quantitative extings. Students will coaches to analyzing ommunities. The rourban and regional parts of the properties of the propertie	If you need make it big ements" so ivalent states yes (4) research not gain a bag and complanning ponducting research manning resear	nethods used by planners in both sic understanding of planning municating planning data between nners, and other participants/actors, processes will be introduced.						
	EFFECTIVE TERM AND YEAR FOR CHANGES Fall, Spring, Summer and year (please enter in textbox)									
	<b>E</b> (must be ir	l ncluded)								
Due to a o	course numb	er change for PLAN	N 200 to P	LAN 100 approved earlier, the						

prerequisites for PLAN 300 need to be updated to include PLAN 100 since it is an equivalent course to PLAN 200 and which is included as a prerequisite already.

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COURSE SUB	BJECT []	PLAN NUMBER	302	TITLE Planning Internship I						
<b>TYPE OF CHANGES.</b> Please type 'X' for the appropriate revision(s):										
Course number		Units		Prerequisite 🖂						
Title		Description		Equivalent □ Statement						
PLAN 302  Provides st with an out instructor. Students w books will report to su and lessons planning co PLAN 100 permission Environme	- Planning udents with side agent Internship ill be required be signed about to the sthey learn on PLAN of the Dent in Research	the "Equivalency statements if changing equivalency if changing equivalency or through a planner or through a planner or through a planner or the student internated to prepare a log of the student internated from the work extension who are not in the N 200; one of PLAN 30 epartment. Student multiple ources and Environment.	ments" sectivalent statent sta	g experience through an internship supervised by the course 0 hours of practical work time. nenting the work activities. Log r. Students will prepare a final e nature of the work performed or students registered in the REN ram. Pass/Fail. Prerequisite: La19, or REM 319; and						
Fall, Spring, Summer and year (please enter in textbox)  Summer 2022										
RATIONALE	(must be	included)								
prerequisite	es for PL	AN 302 need to be upo	dated to incl	AN 100 approved earlier, the lude PLAN 100 since it is an l as a prerequisite already.						



COURSE SU	BJECT	PLAN	NUMBER	400	TITLE	Planning Analysis	Theory and Polic
TYPE OF CH	ANGES.	Please type ''	X' for the app	propriate rev	vision(s):		
Course number		Ur	nits		Pre	requisite	$\boxtimes$
Title		D€	escription			quivalent catement	
PLAN 400  Provides a focusing o	se revievese comp  O - Plann  on advant	point of the te w the "Equiva onents if cha ing Theory a ced evaluation oms in urban equisite: PLA	alency staten anging equiva- and Policy A on of plannin	nents" sectionalent statements (4) nalysis (4) ng theory, pu	on under jent(s).  ublic polind resour	Information  Ecy and polyce and env	icy analysis,
	Summer	ND YEAR FO and year (ple					
RATIONALE		e included)					
prerequisit	es for P	mber change LAN 400 nee to PLAN 200	ed to be upda	ated to inclu	de PLAN	N 100 since	e it is an

	IBJECT	PLAN	NUMBER	406	TITLE	Rural Planning and Development	
TYPE OF CI	HANGES.	Please type '	X' for the ap <sub>l</sub>	propriate re	vision(s):		
Course number		U	nits		Pre	requisite 🗵	
Γitle		D	escription			quivalent 🗌 catement	
Examines include the practices regions, a challenge	s the proceed the historic of rural country and plann s and opposed the country and plann s and opposed the country and plann s and opposed the country and opposed the countr	cal developn levelopment ing for rural	actices of planent of rural and their relaces. Fessociated with	anning in the planning in levance to proof or each top the adding a	Canada, lanning, jic the cou	etting. Topics may the principles and planning in resource arse will identify the to planning practice.	

Due to a course number change for PLAN 200 to PLAN 100 approved earlier, the prerequisites for PLAN 406 need to be updated to include PLAN 100 since it is an equivalent course to PLAN 200 and which is included as a prerequisite already.



COURSE SU	BJECT	PLAN	NUMBER	408	TITLE		ental Planning for le Communities				
TYPE OF CH	<b>TYPE OF CHANGES.</b> Please type 'X' for the appropriate revision(s):										
Course number		Units			Prerequisite ⊠		$\boxtimes$				
Title		Description   Equivalent   Statement									
indicate add allows, drag expand. Pleas specific cours  PLAN 408  Examines sustainabl governme Environm prevent de	ed or new the endruse review as a composition of the endruse see composition of the endruse framework and to collect a place of the endruse for estatic communication of the endruse framework and the endruse	Sustainable of laborate in ba nners need to on, reduce ca ity health, soo	anderline. If yext box to manalency statement and planning for Sustantial and planning communities alancing humborknow how arbon emissi	you need to ke it bigger, nents" sectionalent statements astainable Congression well-being approaches connect citan well-being and proons, and proons, and proof to engage cons, and and engage cons, and engage cons	enter mo as it will n under l ent(s).  ommunit es to positizens, pr ng with of	re text that not autom (informatio)  ties (4)  ition commitvate sector ecosystem y-level statiliversity w	n the box atically n about  nunities for a or and health. skeholders to while also				
	Summer	ND YEAR FO									
RATIONALI	E (must b	e included)									
prerequisi	tes for P	mber change LAN 408 nee to PLAN 200	ed to be upda	ated to inclu	de PLAN	N 100 sinc	e it is an				



COURSE SU	IBJECT	PLAN	NUMBER	443	TITLE	Public Engagement, Mediation and Conflict Resolution in Planning
TYPE OF CI	HANGES.	Please type	'X' for the ap	propriate re	evision(s):	
Course number	<del></del>		Units		Pre	requisite 🗵
Title		Description				quivalent $\square$ tatement
PLAN 443 Introduces mediation this is folloplanning. Concepts. including processes:	g the endpasse reviews rse compasses of the endpasses of	Engagement, to the theory in planning. review of tectes and negotie theories and legotiation Pracquire the sig, engage in	ext box to maralency states anging equivalency Mediation are and technique Begins with a chniques for tation simulated approaches rogram simulated its to design	ake it bigger ments" sectivalent statent and Conflict Researched conflict Researched for public of a review of public of a review of public of a review of public of	c, as it will on under nent(s).  Resolution engagement anning and operation will be used the second facilitate and resolve	in Planning (4)  in, negotiation and and negotiation theory and nof public engagement in ed to illustrate key Negotiation Program ronmental dispute e public engagement public disputes in
	Summer		OR CHANGES lease enter in			
RATIONAL Due to a			ea for DL AN	200 to DI A	N 100 cm	proved earlier, the
prerequis	ites for P	LAN 443 ne	eed to be upo	dated to incl	ude PLA	N 100 since it is an equisite already.



COURSE SU	JBJECT	BISC <b>NUMBEI</b>	<b>R</b> 435	TITLE Introduction to Pest Management						
<b>TYPE OF CHANGES.</b> Please type 'X' for the appropriate revision(s):										
Course number		Units		Prerequisite ⊠						
Title		Description		Equivalent  Statement						
WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using strike through, indicate added or new text using 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: BISC 317 or GEOG 215 with a grade of C- or better, or 75 units.  BISC 204 with a grade of C- or better.										
_		YEAR FOR CHANGE d year (please enter i	_							
Fall 2022										



**Rationale:** The pre-requisite has been changed to bring BISC 435 in line with other BISC upper division courses in applied ecology that require foundational knowledge in ecology.

The change also reflects the need for this foundational background knowledge rather than the need for a specific organismal course (BISC 317 insect Biology) recognizing that taxa other than insects can be pests.

This change also provides greater flexibility and improved access to BISC 435 for Majors in Biological and Environmental Science.



<b>TYPE OF CHANGES.</b> Please type 'X' for the appropriate revision(s):										
Course										
Title ⊠ Description ⊠ Equivalent □ Statement										
WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using strike through, indicate added or new text using 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).  BPK 303 - Kinanthropometry: Assessment of Movement and Function (3)  Kinanthropometry uses Clinical orthopaedic assessment involves measurements of the human body to determine its capability for function and movement. The theoretical background, practical application and elinical assessment for topics including anthropometrics, posture, balance, range of motion, strength, motor and sensory function, muscle length coordination and balance, and walking and running gait will be investigated.  EFFECTIVE TERM AND YEAR FOR CHANGES Fall, Spring, Summer and year (please enter in textbox)  Summer 2022  RATIONALE (must be included)										
Current instructor would like to remove reference to Kinanthropometry, as the term is n clear to students and is not utilized or defined within the course content.	ot									