

OFFICE OF THE ASSOCIATE VICE-PRESIDENT, ACADEMIC

MEMORANDUM —	1 1	TEL: 778.782.6654 FAX: 778.782.5876	avpacad@sfu.ca www.sfu.ca/vpacademic
ATTENTION	Senate	DATE	May 3, 2019
FROM	Wade Parkhouse, Chair	PAGES	1/1
RE:	Senate Committee on Undergraduate Studies Course Changes (SCI	(US 19-33)	Radause

For information:

Acting under delegated authority at its meeting of May 2, 2019 SCUS approved the following curriculum revisions effective Spring 2020.

a. Faculty of Environment

- 1. The School of Resource and Environmental Management
 - (i) B-Soc designation for PLAN 200
 - (ii) Change to the equivalent statement for REM 370 and 375

b. Faculty of Science

- 1. Department of Biological Sciences
 - (i) Prerequisite change for BISC 313
 - (ii) Description change for BISC 497W, 498 and 499
 - (iii) Prerequisite change for MASC 401, 410, 412, 415, 425, 430, 437, 440 and 470-479
 - (iv) Unit change for MASC 410, 412, 430 and 440
 - (v) Deletion of MASC 411, 445, 446 and 480

2. Department of Chemistry

- (i) Equivalent statement change for CHEM 109, 110 and 111
- (ii) Prerequisite change for CHEM 120 and 121

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



UNIVERSITY CURRICULUM AND INSTITUTIONAL LIAISON OFFICE OF THE VICE-PRESIDENT, ACADEMIC

	8888 University Drive, Burnaby, BC Canada V5A 186	TEL: 778.782.3312 FAX: 778.782.5876	slrhodes@sfu.ca www.sfu.ca/ugcr
MEMORAND	IUM		
ATTENTION	Paul Kingsbury, Associate Dean, FENV	DATE April 15, 2019)
FROM	Susan Rhodes, Director, University Curriculum & Institutional Liaison	pages 1	
RE:	PLAN 200 B approval		

The University Curriculum Office has approved **B-Soc** designation for the following new course in Resource and Environmental Management, to be offered in Spring 2020 (1201):

PLAN 200-3 Introduction to Planning

Please forward this memo with the new course proposal material to the Faculty UCC, SCUS and Senate for final approvals.

cc: Duncan Knowler, UGC Chair, School of Resource and Environmental Management

SCUS 19-33a(ii)

SFU	SENATE COMMITT UNDERGRADUATE			COURSE MODIFICATION FORM Page 1 of 1
COURSE SU	J BJECT RE	M NUMBE	R 370	TITLE Global Resource Issues in Oceanography
TYPE OF CH	IANGES. Pleas	e type 'X' for the ap	opropriate r	evision(s):
Course number		Units		Prerequisite 🗆
Title		Description		Equivalent ⊠ Statement
indicate add allows, drag expand. Plea <u>specific cour</u>	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 <u>s</u> if changing equiv	you need to ake it bigge ments" sect valent stater	anged text using strike through , o enter more text than the box r, as it will not automatically on under <u>Information about</u> nent(s).
Introduces cycling, nu resource co resource m Prerequisit	principles of trients and bio ontributions to nanagement in te: EVSC 100, o	ological productivit o global food suppl cluding transporta	uding ocean y, oceans ar y. Provides tion, recrea M 100, and	circulation, ocean carbon d the climate system, and ocean basic understanding of ocean tion, fisheries, and mining. 45 units. <u>Students with credit</u>

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Spring 2020

RATIONALE (must be included)

To add equivalency statement for new MASC courses at Bamfield Marine Sciences Centre.

	NATE COMMITTEE O DERGRADUATE STU			COL	JRSE MODIF	ICATION FORM Page 1 of 1	
COURSE SUB	JECT REM	NUMBER	375	TITLE	Ecology and (Coastal BC	Conservation of]
TYPE OF CHAN	IGES. Please ty	pe 'X' for the app	propriate revi	ision(s):			
Course number		Units		Prere	quisite 🛛		
Title		Description		-	ivalent 🛛 ement		

Ecology and Conservation of Coastal BC REM 375 (3)

Investigates the ecosystems and environmental challenges of coastal British Columbia. Examines the major flora and fauna, fundamental ecological principles, anthropogenic drivers of change, and the role of applied science in conservation and management. Prerequisite: 45 units. <u>Students with credit for MASC 414 cannot take</u> <u>REM 375 for further credit.</u>

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Spring 2020

RATIONALE (must be included)

To add equivalency statement for new MASC courses at Bamfield Marine Sciences Centre.

	NATE COMMITTEE OI	N		COURSE MOI	DIFICATION FORM
	NDERGRADUATE STUE	DIES			Page 1 of 1
COURSE SUBJ	ECT BISC	NUMBER	313		mental Toxicology: A stic Perspective
TYPE OF CHA	NGES. Please tyj	pe 'X' for the apj	propriate rev	vision(s):	
Course number		Units		Prerequisite	
x Title		Description		Equivalent Statement	

Prerequisite: <u>BISC 101, and one of: BISC 204, GEOG 215, or</u> MBB 231<u>; all</u> with a grade of C- or better.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Spring 2020

RATIONALE (must be included)

This course is taken by students from outside of BISC, including MBB, FHS, and FENV (including REM). The instructor for this course has determined that content from MBB 231 is not strictly needed for BISC313. We have expanded the list of pre-req options to make the course more accessible for students in other programs who have completed at least one related 200 level course.

SCUS	19-33b	(1	(ii))
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SFU	on b brid and t	JATE STUDIES					Page 1 of
COURSE SU	J BJECT H	BISC NUMBER	497W		dergrad riting In	luate Rest tensive	earch:
TYPE OF CI	HANGES. Pl	ease type 'X' for the ap	propriate re	evision(s):			
Course number		Units		Prerequ	lisite		
^x Title		Description	Ø	Equiva Stater			
allows, drag expand. Plea specific cou Directed biology o prior wri	g the endpoi ase review to rse compon study, and r biologica tten agree	text using <u>underline</u> . If int of the text box to m the "Equivalency states tents if changing equiv research or scientifi l pedagogy. A studen ment of a faculty mer de instruction and fee	ake it bigger ments" secti ralent staten c communi at may enro mber to act	, as it will not a on under <u>Infor</u> nent(s). cation, in an a ol in this cours as a research	automat mation area of se only 1 superv	tically <u>about</u> with	
allows, drag expand. Plea specific cou Directed biology o prior wri who will presentat	the endpoi ase review t <u>rse compon</u> study, and r biologica tten agreen also provio tion of resu	int of the text box to mathen the "Equivalency states tents if changing equiv research or scientifi l pedagogy. A studen ment of a faculty mer	ake it bigger ments" secti ralent staten c communi at may enro mber to act edback on t h. <u>A maxim</u>	, as it will not a on under <u>Infor</u> nent(s). cation, in an a ol in this cours as a research the writing an um of three u	automat mation area of se only a superv ad upper	tically about with visor,	
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allows, drag expand. Plea specific cou Directed biology o prior wri who will presentat division r	g the endpoi ase review to rse compon study, and r biologica tten agreen also provid tion of resu research co	int of the text box to mathe the "Equivalency states tents if changing equiv research or scientifi l pedagogy. A studen ment of a faculty men de instruction and fea ults from the research	ake it bigger ments" secti valent staten c communi at may enro nber to act edback on t h. A maxim I towards t	, as it will not a on under <u>Infor</u> nent(s). cation, in an a ol in this cours as a research the writing an um of three u	automat mation area of se only a superv ad upper	tically about with visor,	

research-intensive courses. Having this statement in the course description is not necessary and it causes confusion.

SFU course su	SENATE COMMI UNDERGRADUA BJECT BI	FE STUDIES	498	COURSE MODIFICATIO	Page 1 of 1
TYPE OF CH	HANGES. Plea	ase type 'X' for the ap	propria	ate revision(s):	
Course number x		Units		Prerequisite 🛛	
Title		Description		Equivalent 🗆 Statement	

Directed study, and research or scientific communication, in an area of biology or biological pedagogy. A student may enrol in this course only with prior written agreement of a faculty member to act as a research supervisor. A maximum of three upper division research courses can be applied towards the major prerequisites.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Spring 2020

RATIONALE (must be included)

Biological Sciences major program allows students to take up to two upper division research-intensive courses. Having this statement in the course description is not necessary and it causes confusion.

SFU course su	SENATE COMMI UNDERGRADUAT BJECT BI	'E STUDIES	499	COURSE MODIFICATION FOI Page 1 of TITLE Undergraduate Research II	
TYPE OF CH	IANGES. Plea	se type 'X' for the ap	propria	ate revision(s):	
Course number x		Units		Prerequisite 🗆	
Title		Description		Equivalent 🗆 Statement	

Directed study, and research or scientific communication, in an area of biology or biological pedagogy. A student may enrol in this course only with prior written agreement of a faculty member to act as a research supervisor. A maximum of three upper division research courses can be applied towards the major requirements.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Spring 2020

RATIONALE (must be included)

Biological Sciences major and program allows students to take up to two upper division research-intensive courses. Having this statement in the course description is not necessary and it causes confusion.

					SCUS	19-33b(1(iii))
CELL	SENATE COMMITTEE	ON		COURSE MOI	DIFICATI	ON FORM
SFU	UNDERGRADUATE ST					Page 1 of 1
COURSE	SUBJECT MASC	NUMBER	All MASC courses	TITLE All MASC	C courses	
TYPE OF	CHANGES. Please t	ype 'X' for the ap	propriate re	evision(s):		
Course number		Units		Prerequisite	\checkmark	
x Title		Description		Equivalent Statement		
indicate a allows, dr expand. P <u>specific co</u> Request requisite Prerequ	dded or new text u ag the endpoint of lease review the "E <u>ourse components</u> :: To remove the lease e for all existing Ma	sing <u>underline</u> . If the text box to m quivalency states if changing equiv ngthy MASC pre ASC courses, as f are set by Bamfie	you need to ake it bigger ments" sectivalent statem req stateme follows.	ents, and change the Science Centre, and	an the box natically on about e pre-	5

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Spring 2020

RATIONALE (must be included)

MASC courses are offered at Bamfield Marine Science Centre. Students interested in Bamfield courses get most of their info (including pre-req info) from Bamfield's website and they apply directly to Bamfield for admission to courses. Currently, the pre-req statements vary among courses, and in some cases are unnecessarily long. The new statement is short, and is less likely to need updating over time. This change will make the course pre-req statement consistent across all MASC courses.



DEPARTMENT OF BIOLOGICAL SCIENCES

Erin Barley Senior Lecturer 8888 University Drive, Burnaby, BC Canada V5A 1S6

TEL 778.782.4972 ebarley@sfu.ca

April 19, 2019

Re: Pre-requisite change for MASC courses.

Motion 23: To change the pre-requisite statement for all MASC courses.

Rationale. MASC courses are offered at Bamfield Marine Science Centre. Students interested in Bamfield courses get most of their info (including pre-req info) from Bamfield's website and they apply directly to Bamfield for admission to courses. Currently, the pre-req statements vary among courses, and in some cases are unnecessarily long. The new statement is short, and is less likely to need updating over time. This change will make the course pre-req statement consistent across all MASC courses.

Course	Pre-requisite from:	Pre-requisite to:
MASC 400	(Currently no pre-reqs)	Pre-requisites are set by
MASC 401	Offerings of the MASC	Bamfield Marine
MASC 410	courses may vary from	Science Centre, and
MASC 412	summer to summer because	normally include
MASC 415	instructors are drawn from	completion of lower
MASC 425	different universities. For	division core courses.
MASC 430	that reason, prerequisites	
MASC 437	may vary slightly. In	
MASC 440	general, upper division	
	standing in biology is	
	required, and admission is	
	usually competitive.	
	Students are encouraged to	
	consult the brochure	
	published each fall by the	
	Bamfield Marine Sciences	
	Centre for full and specific	
	details. The brochure will	
	be available from the	
	Department of Biological	
	Sciences.	
MASC 470	Prerequisite: Will vary and	
MASC 471	will be announced in	
MASC 472		

MASC 473	advance of the course	
MASC 474	offering.	
MASC 475		
MASC 476		
MASC 477		
MASC 478		
MASC 479		

Erin Barley and Dr. Kathleen Fitzpatrick (DUCC Chair, Biological Sciences)

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					SCUS 19-33b(1(iv))
CELL	SENATE C	OMMITTEE ON		COURSE MODI	FICATION FORM	
SFU	UNDERGR	ADUATE STUDIES			Page 1 of 1	
COURSE SU	BJECT	MASC NUMBER	410	TITLE Marine Inv	vertebrate Zoology	
TYPE OF CH	HANGES.	. Please type 'X' for the aj	opropri	ate revision(s):		
Course number		Units x		Prerequisite		
Title		Description		Equivalent Statement		

Current units: 6 New units: 3 or 6			
	7		

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Spring 2020

RATIONALE (must be included)

Bamfield Marine Science Centre runs summer courses in 3 or 6 week blocks. They would like the flexibility to offer these courses in either block. If the course duration is 6 weeks, the students will receive 6 units; if the course duration is 3 weeks, the students will receive 3 units. This change has been made following consultation with Susan Rhodes, the Director of University Curriculum and Institutional Liaison.

SFU	SENATE COMMITTEE (UNDERGRADUATE STU			COURSE MODIF	ICATION FORM Page 1 of 1
COURSE SUI	BJECT MASC	NUMBER	412	TITLE Biology of M	larine Fishes
TYPE OF CH	ANGES. Please ty	vpe 'X' for the ap	propria	te revision(s):	
Course number		Units x		Prerequisite 🗌]
Title		Description		Equivalent 🗆 Statement]

Current units: 6 New units: 3 or 6			

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Spring 2020

RATIONALE (must be included)

Bamfield Marine Science Centre runs summer courses in 3 or 6 week blocks. They would like the flexibility to offer these courses in either block. If the course duration is 6 weeks, the students will receive 6 units; if the course duration is 3 weeks, the students will receive 3 units. This change has been made following consultation with Susan Rhodes, the Director of University Curriculum and Institutional Liaison.

		ENATE COMMITTEE O NDERGRADUATE STUI			COURSE MOD	IFICATION FORM Page 1 of 1
-	COURSE SUBJ	ECT MASC	NUMBER	430	TITLE Marine E	cology
	TYPE OF CHA	NGES. Please ty	pe 'X' for the ap	propriate rev	rision(s):	
	Course number		Units x		Prerequisite	
	Title		Description		Equivalent Statement	

Current units: 6 New units: 3 or 6			

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Spring 2020

RATIONALE (must be included)

Bamfield Marine Science Centre runs summer courses in 3 or 6 week blocks. They would like the flexibility to offer these courses in either block. If the course duration is 6 weeks, the students will receive 6 units; if the course duration is 3 weeks, the students will receive 3 units. This change has been made following consultation with Susan Rhodes, the Director of University Curriculum and Institutional Liaison.

		ENATE COMMITTEE O NDERGRADUATE STUI			COURSE MOD	IFICATION FORM Page 1 of 1
and the second	COURSE SUBJ	ECT MASC	NUMBER	440	TITLE Biology o	f Marine Birds
	TYPE OF CHA	NGES. Please ty	pe 'X' for the apj	oropriate rev	ision(s):	
	Course number		Units x		Prerequisite	
	Title		Description		Equivalent Statement	

Current units: 6 New units: 3 or 6			

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Spring 2020

RATIONALE (must be included)

Bamfield Marine Science Centre runs summer courses in 3 or 6 week blocks. They would like the flexibility to offer these courses in either block. If the course duration is 6 weeks, the students will receive 6 units; if the course duration is 3 weeks, the students will receive 3 units. This change has been made following consultation with Susan Rhodes, the Director of University Curriculum and Institutional Liaison.



EXISTING COURSE DELETION FORM 1 of 1 page

COURSE SUBJECT MASC NUMBER 411 TITLE Comparative Embryology of Marine Invertebra

RATIONALE (must be included)

MASC (Marine Science) courses are offered through Bamfield Marine Science Center (BMSC), of which SFU is a partner. Bamfield has recommended deleting this course as it has not been offered for many years, and there is no expectation that it will be offered again.

EFFECTIVE TERM AND YEAR FOR CHANGES

Fall, Spring, Summer and year (enter in textbox) Spring 2020

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:

MASC courses are not listed in any programs. (Program Impact email attached.) MASC courses do not serve as pre-requisites or co-requisites for other courses.



COURSE SUBJECT MASC NUMBER 445 TITLE Biology of Marine Mammals

RATIONALE (must be included)

MASC (Marine Science) courses are offered through Bamfield Marine Science Center (BMSC), of which SFU is a partner. Bamfield has recommended deleting this course as it has not been offered for many years, and there is no expectation that it will be offered again.

EFFECTIVE TERM AND YEAR FOR CHANGES

Fall, Spring, Summer and year (enter in textbox) Spring 2020

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:

MASC courses are not listed in any programs. (Program Impact email attached.) MASC courses do not serve as pre-requisites or co-requisites for other courses.



COURSE SUBJECT MASC NUMBER 446 TITLE Comparative Ethology

RATIONALE (must be included)

MASC (Marine Science) courses are offered through Bamfield Marine Science Center (BMSC), of which SFU is a partner. Bamfield has recommended deleting this course as it has not been offered for many years, and there is no expectation that it will be offered again.

EFFECTIVE TERM AND YEAR FOR CHANGES

Fall, Spring, Summer and year (enter in textbox) Spring 2020

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:

MASC courses are not listed in any programs. (Program Impact email attached.) MASC courses do not serve as pre-requisites or co-requisites for other courses.



COURSE SUBJECT MASC NUMBER 480 TITLE Seminars and Papers in Marine Science

RATIONALE (must be included)

MASC (Marine Science) courses are offered through Bamfield Marine Science Center (BMSC), of which SFU is a partner. Bamfield has recommended deleting this course as it has not been offered for many years, and there is no expectation that it will be offered again. It has been replaced by a new course MASC 436 Applied Data Analysis in Marine Science.

EFFECTIVE TERM AND YEAR FOR CHANGES

Fall, Spring, Summer and year (enter in textbox) Spring 2020

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:

MASC courses are not listed in any programs. (Program Impact email attached.) MASC courses do not serve as pre-requisites or co-requisites for other courses.

SCUS	19-33b(2(i))
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	ENATE COMMITTEE O NDERGRADUATE STUI			CC	URSE MO	DIFICATION F	TORM 1 of 1
 COURSE SUBJ	ECT CHEM	NUMBER	109	TITLE	Introduct Health Ca	ion to Chemistry reers	/ for
TYPE OF CHA	NGES. Please ty	pe 'X' for the ap	propriate rev	vision(s):			
Course number		Units		Prei	requisite		
Title		Description			uivalent atement	\boxtimes	

General concepts of chemistry for those with no chemistry background who are interested in pursuing careers in health sciences. Principles of atomic structure, chemical bonding, gases, liquids and solutions, chemical kinetics and equilibrium are covered. The chemistry of everyday materials, drugs and poisons, and environmental issues are surveyed. Prerequisite: Pre-Calculus 12 (or equivalent) or MATH 100 (may be taken concurrently). This course is open only to students in the Aboriginal pre-health program. Students with credit for a grade of C or better in Chemistry 12 (or equivalent), or who have credit for any university chemistry course may not take this course for further credit. Quantitative/Breadth-Science.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Spring 2020

RATIONALE (must be included)

To allow students to take this course for credit if they have not met prerequisite grade requirements.

November 2016

SFU		MMITTEE ON Duate studies		COURSE MO	DDIFICATION FORM Page 1 of 1
COURSE SU	BJECT	CHEM NUMBER	R 110	TITLE Introduct	tory Chemistry
TYPE OF CH	ANGES.	Please type 'X' for the a	ppropria	te revision(s):	
Course number		Units		Prerequisite	
Title		Description		Equivalent Statement	\boxtimes

General fundamental concepts and nomenclature; stoichiometry and chemical calculations; nuclear and atomic structures, chemical bonding; properties of gases, liquids, solids and solutions; chemical kinetics and chemical equilibrium. This course has the same lecture component as CHEM 111 but no laboratory work. Students who intend to take further laboratory courses in chemistry should take CHEM 111 instead. Prerequisite: Pre-Calculus 12 (or equivalent), MATH 100 (may be taken concurrently), or permission of the Department. No previous training in chemistry is required for this course. Students with credit for a grade of C or better in Chemistry 12 (or equivalent), <u>or who have credit for CHEM 111</u>, or any university chemistry course may not take this course for further credit. Quantitative/Breadth-Science.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Spring 2020

RATIONALE (must be included)

To allow students to take this course for credit if they have not met prerequisite grade requirements.

	ENATE COMMITTEE O NDERGRADUATE STU			COURSE N	ODIFICATION FORM
 COURSE SUBJ	ECT CHEM	NUMBER	111	TITLE Introdu Laborat	ctory Chemistry and ory
TYPE OF CHA	NGES. Please ty	pe 'X' for the ap	propriate re	vision(s):	
Course number		Units		Prerequisite	•
Title		Description		Equivalent Statement	

General fundamental concepts and nomenclature; stoichiometry and chemical calculations; nuclear and atomic structures, chemical bonding; properties of gases, liquids, solids and solutions; chemical kinetics and chemical equilibrium. This course includes a laboratory component. Prerequisite: Pre-Calculus 12 (or equivalent), MATH 100 (may be taken concurrently), or permission of the Department. No previous training in chemistry is required for this course. Students with credit for a grade of C or better in Chemistry 12 (or equivalent), <u>or who have credit for CHEM 110</u>, or any university chemistry course may not take this course for further credit. Quantitative/Breadth-Science.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Spring 2020

RATIONALE (must be included)

To allow students to take this course for credit if they have not met prerequisite grade requirements.

SCUS 19-33b(2(ii))

COURSE S	UBJECT	CHEM	NUMBER	120	TITLE Gene	eral Che	emistry I	
TYPE OF (CHANGES	. Please type	e 'X' for the ap	propriate	revision(s):			
Course number		1	Units		Prerequis	site 🛛	3	
Title		1	Description		Equival	ent 🗆		
indicate ad allows, dra expand. Ple specific co	lded or ne og the end ease revie urse com	ew text using point of the ew the "Equi ponents if cl	g <u>underline</u> . If text box to ma valency stater hanging equiv	you need ake it bigg nents" seo alent stat		strike than t tomati tation a	he box ically ibout	,
indicate ad allows, dra expand. Plo specific co Atomic a periodic compone	lded or ne og the end ease revie urse com nd molec table; gas ent as CHI	ew text using point of the ew the "Equi ponents if cl ular structur ses, liquids, s EM 121 but r	g <u>underline</u> . If text box to ma valency staten hanging equiv re; chemical b olids, and solu to laboratory	you need ake it bigg nents" see alent stat onding; th utions. Th work. Stu	changed text using to enter more text ger, as it will not au ction under <u>Inform</u> ement(s). nermochemistry; e is course has the s dents who intend	strike than t atomati ation a lement ame leo	he box ically about s;	,
indicate ad allows, dra expand. Plo specific con Atomic a periodic compone further la Prerequi minimun	Ided or ne og the end ease revie urse com nd molec table; gas ent as CHI aboratory site: Cher n grade of	ew text using point of the ew the "Equi ponents if cl ular structur ses, liquids, s EM 121 but r courses in c nistry 12 wir f C Students	g <u>underline</u> . If text box to may valency stater hanging equiv re; chemical b olids, and solut to laboratory chemistry sho th a minimum	you need ake it bigg nents" see alent stat onding; th ations. Th work. Stu uld take C grade of or CHEM	changed text using to enter more text ger, as it will not au ction under <u>Inform</u> ement(s). nermochemistry; e is course has the s dents who intend HEM 121 instead. <u>C</u> , or CHEM 110 or 121 or CHEM 123	strike than t itomati iation a lement ame lec to take 111 w	he box ically <u>about</u> s; cture ith a	,

Spring 2020

RATIONALE (must be included)

To clarify the high school chemistry grade requirement.

COURSE SI		EM NUMBER	121	FITLE General Chemistry and Laboratory I
TYPE OF C	HANGES. Plea	se type 'X' for the app	propriate revi	sion(s):
Course number		Units		Prerequisite 🛛
litle [Description		Equivalent 🗆 Statement
		of the text box to mal		s it will not automatically
xpand. Ple	ase review the	e "Equivalency statem nts if changing equiva		

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Spring 2020

RATIONALE (must be included)

To clarify the high school chemistry grade requirement.