

OFFICE OF THE ASSOCIATE VICE-PRESIDENT, ACADEMIC

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MEMORANDUM

ATTENTION

FROM

Senate

Wade Parkhouse, Chair

Senate Committee on

Undergraduate Studies

RE:

New Course Proposals

DATE

June 7, 2019

PAGES

1/1

For information:

Acting under delegated authority at its meeting of June 6, 2019 SCUS approved the following curriculum revisions effective Spring 2020.

a. Faculty of Environment (SCUS 19-39)

1. Department of Archaeology

(i) New Course Proposals:

- ARCH 431-3, Historical Ecology & Coastal Archaeology
- ARCH 436, (3-6), Biological Anthropology Field Practicum

b. Faculty of Science (SCUS 19-40)

1. Department of Chemistry

(i) New Course Proposal: CHEM 382-4, Introduction to Chemical Biology

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.



NEW COURSE PROPOSAL

1 OF 4 PAGES

COURSE SUBJECT	ARCH	NUMBER 431	
	9 — for Calendar/schedule, no more than 100 cha	racters including spaces and punctuation	
COURSE TITLE SHOWN	RT — for enrollment/transcript, no more than 30 o Coastal Arch.	characters including spaces and punctuation	
CAMPUS where course	e will be normally taught: Burnaby S	Surrey Vancouver Great Northern	Way ✓ Off campus
COURSE DESCRIPTION	ON — 50 words max. Attach a course outline. Do	n't include WQB or prerequisites info in this descr	iption box.
ecological data fi attend field trips,	ts to historical ecology from a coastal rom coastal archaeological sites. Concilectures, labs, and marine station semial of ecological data. Students will use	duct analyses on archaeological sampl ninars introducing them to Indigenous	es. Students will history and the
REPEAT FOR CREDIT	YES NO Total completion	s allowed 5 Within a term?	yes 🗸 no
materials. Each new cor	roved (S.93-11) that no new course should be apprurse proposal must be accompanied by the email the ca/about/overview/collections/course-assessments	hat serves as proof of assessment. For more informat	for necessary library ion,
RATIONALE FOR INT	RODUCTION OF THIS COURSE		
Centre. However, w students and our adv reflected on the stud- create a stand alone	been offering this course every summer under leads of use ARCH 433 as part of both our localisor, as well as issues with using the Academ ent transcripts, and is not an accurate represence ourse for use by BMSC, and also for use by ea and she could teach this course as part of heads.	al and international field schools. This causes ic Progress report (APR). The course title is nutation of the course work being done. There the department. We recently hired a new fac	s confusion for the also not accurately fore, we would like to



SCHEDULING AND ENROLLMENT INFORMATION

Effective term and year (e.g. FALL 2016) Spring 2020
Term in which course will typically be offered Spring Summer Fall
Other (describe)
Will this be a required or elective course in the curriculum? Required Elective
What is the probable enrollment when offered? Estimate: 2-22
UNITS Indicate number of units: 3
Indicate no. of contact hours: Lecture Seminar Tutorial Lab 3 Other; explain below
OTHER
Field
FACULTY Which of your present CFL faculty have the expertise to offer this course?
Christina Giovas, Dana Lepofsky, Iain McKechnie (UVIC) Bamfield
WQB DESIGNATION
(attach approval from Curriculum Office)
PREREQUISITE AND / OR COREQUISITE
ARCH 372



Exolvation Cookses [For more information on equivalency, see Equivalency Statements under <u>Information about Specific Course components.</u>]
1. SEQUENTIAL COURSE [is not hard coded in the student information management system (SIMS).]
Students who have taken (place relevant course(s) in the blank below (ex: STAT 100)) first may not then take this course for further credit.
2. ONE-WAY EQUIVALENCY [is not hard coded in SIMS.]
(Place relevant course(s) in the blank below (ex: STAT 100)) will be accepted in lieu of this course.
3. TWO-WAY EQUIVALENCY [is hard coded and enforced by SIMS.]
Students with credit for (place relevant course(s) in the blank below (ex: STAT 100)) may not take this course for further credit.
Does the partner academic unit agree that this is a two-way equivalency? YES NO Please also have the partner academic unit submit a course change form to update the course equivalency for their course(s).
4. SPECIAL TOPICS PRECLUSION STATEMENT [is not hard coded in SIMS.]
FEES
Are there any proposed student fees associated with this course other than tuition fees?
COURSE - LEVEL EDUCATIONAL GOALS (OPTIONAL)
This course is designed to expose students to the potential of using coastal archaeological data to extend and contextualize contemporary ecological observations of the marine environment. In so doing, we also aim to learn standard archaeological and ecological analytical techniques and reporting conventions. We will work in small groups to develop and address archaeological and historical ecological research questions and share our observations with researchers and community members. In the last week of the course, each student will be responsible for writing a technical report that contributes to existing knowledge of Nuu-chah-nulth history and demonstrates how this information is ecologically and scientifically relevant today. Upon successful completion of the course, students will have the ability to: - Identify and describe common coastal archaeological site constituents and sampling methods. - Create a basic sketch map using a compass, a baseline, measuring tapes, and GPS coordinates. - Recognize and identify commonly encountered coastal archaeological site constituents such as human modified artifacts, faunal remains (mammal, fish, & bird bones and shellfish species).

- Become familiar with the complexity and relevance of Indigenous resource use and long-term

- Consider the effects that palaeoenvironmental change has had on the distribution of archaeological

human participation in coastal ecosystems that extends ecological observations.

sites and archaeological site potential (sea levels, geohazards, preservation potential).



NEW COURSE PROPOSAL 4 OF 4 PAGES

RESOURCES							
List any outstanding resource issues t	o be addressed pr	ior to implem	entation: space, la	boratory equi	pment, etc:		
OTHER IMPLICATIONS							
Final exam required YES	NO NO						
Criminal Record Check required	YES	✓ NO					
OVERLAP CHECK							

Checking for overlap is the responsibility of the Associate Dean.

Each new course proposal must have confirmation of an overlap check completed prior to submission to the Faculty Curriculum Committee.

Name of Originator

Dennis Sandgathe, UEC Chair, Archaeology





COURSE SUBJECT ARCH	NUMBER 436
course title Long — for Calendar/schedule, no more than 100 chara Biological Anthropology Field Practicum	acters including spaces and punctuation
COURSE TITLE SHORT — for enrollment/transcript, no more than 30 cl Bioanth Practicum	haracters including spaces and punctuation
CAMPUS where course will be normally taught: Burnaby Su	nrey Vancouver Great Northern Way 🗸 Off campus
COURSE DESCRIPTION — 50 words max. Attach a course outline. Don	't include WQB or prerequisites info in this description box.
A practical application of the background knowledge at place in a research oriented field excavation. Evaluation efficiency and accuracy of excavation techniques/record contribution to the smooth functioning of the team. Students	n of student performance is based upon assessments of ding procedures, and upon the student's overall
REPEAT FOR CREDIT ✓ YES NO Total completions	allowed 5 Within a term? ✓ YES NO
LIBRARY RESOURCES NOTE: Senate has approved (S.93–11) that no new course should be appromaterials. Each new course proposal must be accompanied by the email that please visit www.lib.sfu.ca/about/overview/collections/course-assessments . RATIONALE FOR INTRODUCTION OF THIS COURSE	at serves as proof of assessment. For more information.
In Spring 2018 we began the expansion of the Biological Anthrope summer we had our first International Field School in Biological Appracticum course ARCH 435, however, this has created a couple of certificate, which is confusing our students, and second, it also required Academic Progress Report (APR).	Anthropology. The students were registered into our existing of issues. First, the practicum is not applicable to our existing CRM
By creating a stand alone course for field practicums that are excludegree and certificate requirements both to students, our advisor, a whether the field school topic is applicable to the Bioanth certifica	and the APR system. This will alleviate any confusion about
It is also important for a students transcript to actively reflect the wastudent pursuing a job in forensics would need the bioanth notation human remains.	



SCHEDULING AND ENROLLMENT INFORMATION Effective term and year (e.g. FALL 2016) Spring 2020 **✓** Summer Term in which course will typically be offered Spring Other (describe) **✓** Required Will this be a required or elective course in the curriculum? Elective What is the probable enrollment when offered? Estimate: 16-22 UNITS Indicate number of units: 3-6 3-6 Indicate no. of contact hours: Tutorial Seminar Other; explain below OTHER Field **FACULTY** Which of your present CFL faculty have the expertise to offer this course? Hugo Cardoso, Dongya Yang, Dennis Sandgathe, Mark Collard, Birute Galdikas **WQB DESIGNATION** (attach approval from Curriculum Office) PREREQUISITE AND / OR COREQUISITE ARCH 373 and permission of the Department. Normally taken concurrently with ARCH 433 and 434.



EQUIVALENT COURSES [For more information on equivalency, see Equivalency Statements under Information about Specific Course components.]

1. SEQUENTIAL COURSE [is not hard coded in the student information management system (SIMS).] Students who have taken (place relevant course(j) in the blank below (ex: STAT 100)) first may not then take this course for further credit. 2. ONE-WAY EQUIVALENCY [is not hard coded in SIMS.] (Place relevant course(j) in the blank below (ex: STAT 100)) will be accepted in lieu of this course. 3. TWO-WAY EQUIVALENCY [is hard coded and enforced by SIMS.] Students with credit for (place relevant course(j) in the blank below (ex: STAT 100)) may not take this course for further credit. Does the partner academic unit agree that this is a two-way equivalency? Please also have the partner academic unit submit a course change form to update the course equivalency for their course(j). 4. SPECIAL TOPICS PRECLUSION STATEMENT [is not hard coded in SIMS.] FEES Are there any proposed student fees associated with this course other than tuition fees? YES NO COURSE - LEVEL EDUCATIONAL GOALS (OPTIONAL) apply discipline-specific skills to real-world examples · developed a concrete, rather than just abstract, understanding of archaeological data - Understand the inherent importance that knowing about our collective past plays in understanding modern society · Understand the role and importance of material culture in modern societies · Develop an appreciation for the importance of issues of ownership of cultural heritage · Understand that there are multiple stake holders	increased and specific components
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### Price relevant course(s) in the blank below (ex: STAT 1001) will be accepted in lieu of this course. 3. TWO-WAY EQUIVALENCY [is hard coded and enforced by SIMS.] Students with credit for (place relevant course(s) in the blank below (ex: STAT 1001)) may not take this course for further credit. Does the partner academic unit agree that this is a two-way equivalency? YES NO Please also have the partner academic unit submit a course change form to update the course equivalency for their course(s). 4. SPECIAL TOPICS PRECLUSION STATEMENT [is not hard coded in SIMS.] FEES Are there any proposed student fees associated with this course other than tuition fees? YES NO COURSE - LEVEL EDUCATIONAL GOALS (OPTIONAL) *apply discipline-specific skills to real-world examples · developed a concrete, rather than just abstract, understanding of archaeological data *Understand the inherent importance that knowing about our collective past plays in understanding modern society · Understand the role and importance of material culture in modern societies · Develop an appreciation for the importance of issues of ownership of cultural heritage · Understand that there are multiple stake holders	tudents who have taken (place relevant course(s) in the blank below (ex: STAT 100)) first may not then take this course for further credit.
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in the collection, analysis, and interpretation of the archaeological record · Understand that the archaeological record is a finite resource and accessing it carries with it an inherent responsibility to the public trust · Appreciate the responsibility of sharing knowledge/data derived from the collection, analysis and interpretation of the archaeological record with the general public and, where appropriate, specific communities/stake holders.	ociety · Understand the role and importance of material culture in modern societies · Develop an appreciation for the importance of issues of ownership of cultural heritage · Understand that there are multiple stake holders in the collection, analysis, and interpretation of the archaeological record · Understand that the archaeological ecord is a finite resource and accessing it carries with it an inherent responsibility to the public trust · Appreciate the responsibility of sharing knowledge/data derived from the collection, analysis and interpretation of the archaeological record with the general public and, where appropriate, specific communities/stake



NEW COURSE PROPOSAL 4 OF 4 PAGES

		R		

List any outstanding resource issues to be addressed prior to implementation: space, laboratory equipment, etc:
OTHER IMPLICATIONS
Final exam required YES VO
Criminal Record Check required YES YES NO
OVERLAP CHECK
Checking for overlap is the responsibility of the Associate Dean.
Each new course proposal must have confirmation of an overlap check completed prior to submission to the Faculty Curriculum Committee.
Name of Originator
Dennis Sandgathe LIEC Chair Archaeology



NEW COURSE PROPOSAL

1 OF 4 PAGES

COURSE SUBJECT Chemistry

NUMBER 382

course title Long — for Calendar/schedule, no more than 100 characters including spaces and punctuation Introduction to Chemical Biology
COURSE TITLE SHORT — for enrollment/transcript, no more than 30 characters including spaces and punctuation Introductory Chemical Biology
CAMPUS where course will be normally taught: Burnaby Surrey Vancouver Great Northern Way Off campus
COURSE DESCRIPTION — 50 words max. Attach a course outline. Don't include WQB or prerequisites info in this description box. Students will develop basic theoretical and practical knowledge in the field of chemical biology. This laboratory/lecture course will be taught as a Course-Based Undergraduate Research Experience (CURE) in which students perform research in small teams on an unsolved problem in chemical biology. Students will be exposed to current thinking and methods, covering chemoinformatics, enzyme assays, high-throughput screening, and chemical synthesis.
REPEAT FOR CREDIT YES NO Total completions allowed Within a term? YES NO
LIBRARY RESOURCES NOTE: Senate has approved (S.93–11) that no new course should be approved by Senate until funding has been committed for necessary library materials. Each new course proposal must be accompanied by the email that serves as proof of assessment. For more information, please visit www.lib.sfu.ca/about/overview/collections/course-assessments

RATIONALE FOR INTRODUCTION OF THIS COURSE

Given the popularity of the new Chemistry and MBB joint major program, we expect that this proposed course would see high enrollments. Chemical Biology draws from many traditional scientific disciplines including Chemistry, Biochemistry, Molecular Biology, and Cell Biology. At its core, Chemical Biology focuses on the identification and creation of chemicals both to aid in the study of and to manipulate biological systems. Clear understanding of both systems being studied is therefore necessitated, that of the chemical principles in operation, as well as how chemical tools can be created and optimized. Chemical Biology is also, broadly, foundational research that is translation-oriented.

The development of Chemical Biology undergraduate programs has proceeded steadily at many universities. These programs have proven highly successful in serving as signature programs and attracting new students to the university. The importance of this burgeoning interdisciplinary field is perhaps best testified to by the fact that Harvard, Cornell, and other eminent universities have renamed their Departments of Chemistry to Departments of Chemistry and Chemical Biology. The proposed course is an essential step in building distinctive offerings that differentiate SFU from Canadian universities and to attract high quality students.

SFU has significant faculty strength in the area of Chemical Biology throughout both the Departments of Chemistry and Molecular Biology and Biochemistry (MBB). These departments together launched the relatively new Chemistry and Molecular Biology Joint Majors program, which has proven successful. Unfortunately, there is no regularly offered core course in this joint major on Chemical Biology, which limits the learning and training opportunities for students in this emerging area. Improving this program is expected to differentiate our offerings from other universities and enhance enrollment.

Here we aim to build interdisciplinary capacity by bolstering the Chemistry and MBB Joint Major via development of a new third year lecture/lab course for the growing interest in interdisciplinary sciences spanning Chemistry and Biology. The goals are to:

1) Provide students with dedicated course material exposing them to key concepts in Chemical Biology, that will prepare them for emerging knowledge economy jobs in the areas of biotechnology, Synthetic Biology, and drug development.

- 2) Develop laboratory skills that expose students to cutting-edge Chemical Biology concepts, methods, and advanced equipment including robotics as applied to assay development, high-throughput screening, and the structural elucidation of molecules.
- 3) Enhance interdisciplinary thinking in students to enable them to gain an improved understanding of how many, new scientific opportunities are emerging at the interface of traditional research disciplines.



SCHEDULING AND ENROLLMENT INFORMATION

Effective term and year (e.g. FALL 2016) Jan 2020
Term in which course will typically be offered Spring Summer Fall Other (describe)
Will this be a required or elective course in the curriculum? Required Elective
What is the probable enrollment when offered? Estimate: 18 to 24
UNITS 4 Indicate number of units:
Indicate no. of contact hours: 2 Lecture Seminar 1 Tutorial 4 Lab Other; explain below
OTHER
N/A
FACULTY
Which of your present CFL faculty have the expertise to offer this course?
David Vocadlo, Roger Linington, Andrew Bennet, Erika Plettner, Nabyl Merbouh

WQB DESIGNATION

(attach approval from Curriculum Office)

N/A

PREREQUISITE AND / OR COREQUISITE

Prerequisites: MBB222, CHEM286, and CHEM283 or CHEM284, all with a minimum grade of C-, or permission of the Department



EQUIVALENT COURSES [For more information on equivalency, see Equivalency Statements under Information about Specific Course components
1. SEQUENTIAL COURSE [is not hard coded in the student information management system (SIMS).]
Students who have taken (place relevant course(s) in the blank below (ex: STAT 100)) first may not then take this course for further credit. N/A
2. ONE-WAY EQUIVALENCY [is not hard coded in SIMS.]
(Place relevant course(s) in the blank below (ex: STAT 100)) will be accepted in lieu of this course. N/A
3. TWO-WAY EQUIVALENCY [is hard coded and enforced by SIMS.]
Students with credit for (place relevant course(s) in the blank below (ex: STAT 100)) may not take this course for further credit. N/A
Does the partner academic unit agree that this is a two-way equivalency? YES NO Please also have the partner academic unit submit a course change form to update the course equivalency for their course(s).
4. SPECIAL TOPICS PRECLUSION STATEMENT [is not hard coded in SIMS.] N/A
FEES
Are there any proposed student fees associated with this course other than tuition fees?
course - level educational goals (optional) N/A



RESOURCES

List any outstanding resource issues to be addressed prior to implementation: space, laboratory equipment, etc:

None

OTHER IMPLICATIONS
Final exam required YES NO
Criminal Record Check required YES YO
OVERLAP CHECK
Checking for overlap is the responsibility of the Associate Dean.
Each new course proposal must have confirmation of an overlap check completed prior to submission to the Faculty Curriculum Committee.
Name of Originator
David Vocadlo