



8888 University  
Drive, Burnaby, BC  
Canada V5A 1S6

TEL: 778.782.6654  
FAX: 778.782.5876

avpacad@sfu.ca  
www.sfu.ca/vpacademic

## MEMORANDUM

ATTENTION Senate  
FROM Paul Kingsbury, Vice-Chair  
Senate Committee on Undergraduate Studies  
RE: New Course Proposal

DATE January 9, 2026

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**For information:**

Acting under delegated authority at its meeting of January 8, 2026 SCUS approved the following curriculum revisions effective Fall 2026.

**a. Faculty of Arts and Social Sciences**1. School of Criminology (SCUS 26-05)

- (i) New Course Proposals: CRIM 409-3, Major Crime and Criminal Intelligence Analysis for Law Enforcement

2. Department of Gender, Sexuality, and Women's Studies

- (i) New Course Proposals: (SCUS 26-06)
- GSWS 336-4, Gendering the Global War of Terror
  - GSWS 337-4, Indigenities Around the World
  - GSWS 338-4, Queer Fandoms

3. Department of Linguistics (SCUS 26-07)

- (i) New Course Proposal: LING 380-1, Practical Skills in Linguistics

4. Department of World Languages and Literatures (SCUS 26-08)

- (i) New Course Proposal: SPAN 360-4, Spanish Literature as World Literature

**b. Faculty of Environment**

1. School of Environmental Science (SCUS 26-09(ii))

- (i) New Course Proposals: EVSC 350-3, Isotopes of Human Impact: Atoms to Anthropocene

**c. Faculty of Science**

1. Department of Biological Sciences (SCUS 26-10)

- (i) New Course Proposal: BISC 450-3, Marine Mammal Ecotoxicology

Senators wishing to consult a more detailed report of curriculum revisions may do so on the Senate Document Repository at <https://www.sfu.ca/senate/documents.html>

COURSE SUBJECT NUMBER 

COURSE TITLE LONG — for Calendar/schedule, no more than 100 characters including spaces and punctuation

COURSE TITLE SHORT — for enrollment/transcript, no more than 30 characters including spaces and punctuation

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.

Discover how police and intelligence agencies leverage crime and intelligence analysis through hands-on labs using software amenable to geospatial and network analysis. Explore structured analytic methods, competing hypotheses and the intelligence cycle, while examining theories and strategies that harness analytics to reduce crime.

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](http://www.lib.sfu.ca/about/overview/collections/course-assessments).

**RATIONALE FOR INTRODUCTION OF THIS COURSE**

The course existed before as CRIM 449 and has been offered numerous times since then as a CRIM 417 - Current Issues in Criminology and Criminal Justice course. It was removed in 2019 after the main instructor took a two-year hiatus to complete other projects. The School offers this course every year and plans to continue to do so, so it should have its own course designation.

This advanced offering significantly enhances the School of Criminology curriculum by establishing a permanent, lab based program in major crime and intelligence analysis. The School of Criminology does not currently offer a lab-based course in major crime and intelligence analysis, except through CRIM 417 (Special Topics). Developed in direct response to strong interest from both students and law enforcement professionals, the course integrates the theoretical foundations of intelligence analysis with hands on application of industry standard tools such as ESRI ArcMap 10.6 (GIS analysis), ESRI Crime Analysts Module, IBM i2 Analyst Notebook (network analysis) and IBM iBase investigative database tools. This integrated design meets rising demand for practical, career relevant learning and underscores SFU's commitment to innovative pedagogies. By engaging directly with authentic police data, students gain a deep understanding of intelligence led policing (ILP) and master immediately transferable skills vital to modern law enforcement.

The course rationale centers on bridging theory and real world practice through experiential learning. As policing increasingly relies on advanced analytical capabilities, this program delivers geospatial fundamentals and crime mapping theory grounded in environmental criminology to predict patterns and inform targeted interventions. Instruction in structured analytic techniques designed to mitigate cognitive bias and ensure defensible, evidence based assessments-is complemented by a systematic exploration of the intelligence cycle.

The curriculum advances into specialized domains such as criminal network analysis and temporal analysis, situating these methods within broader frameworks like Problem Oriented Policing. While tailored for aspiring analysts, the course also accommodates incumbent law enforcement professionals seeking formal forensic analysis credentials. Significantly, the course has been accredited by the International Association of Law Enforcement Intelligence Analysts (IALEIA). Successful completion satisfies the 40-hour classroom prerequisite required for graduates to enter the Professional Analyst Certification Program (P ACP), thereby providing a direct and tangible pathway to professional advancement in the field.



SCHEDULING AND ENROLLMENT INFORMATION

Effective term and year (e.g. FALL 2016) Fall 2026

Term in which course will typically be offered [X] Spring [ ] Summer [X] Fall

Other (describe)

Will this be a required or elective course in the curriculum? [ ] Required [X] Elective

What is the probable enrollment when offered? Estimate: 25

UNITS Indicate number of units: 3

Indicate no. of contact hours: [ ] Lecture 3 Seminar [ ] Tutorial [ ] Lab 1 Other; explain below

OTHER

+1 hour open lab (OPL) following seminar

FACULTY

Which of your present CFL faculty have the expertise to offer this course?

Dr. Martin Bouchard, PhD
Dr. Richard Frank, PhD

WQB DESIGNATION

(attach approval from Curriculum Office)

PREREQUISITE AND / OR COREQUISITE

CRIM 101 and CRIM 135

**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.

**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.

CRIM 449 - Major Crime and Forensic Analysis for Law Enforcement

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.]

Students with credit for CRIM 417 under the topics "Criminal Intelligence Analysis", "Evidence and Investigative Techniques", or "Major Crime and Forensic Analysis for Law Enforcement" may not take this course for further credit.

## FEES

Are there any proposed student fees associated with this course other than tuition fees?  YES  NO

## COURSE - LEVEL EDUCATIONAL GOALS (OPTIONAL)

Upon completing this course, students will integrate leading-edge law enforcement technologies with advanced analytic methodologies to address complex criminological issues. Students will tackle diverse case studies, ranging from homicide to narcotics trafficking, by leveraging police records-management data. This experiential pedagogy unites foundational criminological theories with hands-on application of tools, cultivating both technical proficiency and a theoretically informed understanding by bringing academic principles into practice. Learners will generate tactical insights, formulate evidence-based recommendations, and apply the intelligence-analysis process within the Canadian legal framework, ensuring critical thinking and analytical rigor. This comprehensive grounding enables students to:

- Describe the theoretical foundations of crime analysis and crime mapping.
- Critically assess challenges police face in reducing crime through analytically driven initiatives.
- Apply law enforcement technology and analysis techniques to crime issues and case studies using police records management data.
- Demonstrate understanding of the intelligence analysis process and its application within the Canadian legal framework-including discovering crime patterns, identifying potential suspects, distinguishing modus operandi among linked offenses, and developing an investigative action plan via a major-case-management model-through a written assignment.



**RESOURCES**

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

Lab equipment already addressed. Surrey physical lab built and operational. Software vendors have gifted the software to the course on an indefinite basis.

**OTHER IMPLICATIONS**

Final exam required  YES  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**

Dr. Martin Bouchard

COURSE SUBJECT NUMBER 

COURSE TITLE LONG — for Calendar/schedule, no more than 100 characters including spaces and punctuation

COURSE TITLE SHORT — for enrollment/transcript, no more than 30 characters including spaces and punctuation

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.

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](http://www.lib.sfu.ca/about/overview/collections/course-assessments).

**RATIONALE FOR INTRODUCTION OF THIS COURSE**



SCHEDULING AND ENROLLMENT INFORMATION

Effective term and year (e.g. FALL 2016) Fall 2026

Term in which course will typically be offered [checked] Spring [ ] Summer [ ] Fall

Other (describe) [ ]

Will this be a required or elective course in the curriculum? [ ] Required [checked] Elective

What is the probable enrollment when offered? Estimate: 30

UNITS Indicate number of units: 4

Indicate no. of contact hours: 2 Lecture [ ] Seminar 2 Tutorial [ ] Lab [ ] Other; explain below

OTHER

[ ]

FACULTY

Which of your present CFL faculty have the expertise to offer this course?

Mariam Georgis, Vaibhav Saria, Amy Krauss

WQB DESIGNATION

(attach approval from Curriculum Office)

[ ]

PREREQUISITE AND / OR COREQUISITE

30 units including three units in GSWS



**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.

**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.]

Students with credit for GSWS 318 under the title "Gendering War on Terror" or GSWS 319 under the title "Global War on Terror" may not take this course for further credit.

**FEES**

Are there any proposed student fees associated with this course other than tuition fees?  YES  NO

**COURSE - LEVEL EDUCATIONAL GOALS (OPTIONAL)**



**RESOURCES**

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

Additional resources not applicable.

**OTHER IMPLICATIONS**

Final exam required  YES  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**

Mariam Georgis



COURSE SUBJECT  NUMBER

COURSE TITLE LONG — for Calendar/schedule, no more than 100 characters including spaces and punctuation

COURSE TITLE SHORT — for enrollment/transcript, no more than 30 characters including spaces and punctuation

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.

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](http://www.lib.sfu.ca/about/overview/collections/course-assessments).

RATIONALE FOR INTRODUCTION OF THIS COURSE



SCHEDULING AND ENROLLMENT INFORMATION

Effective term and year (e.g. FALL 2016) Fall 2026

Term in which course will typically be offered [X] Spring [ ] Summer [ ] Fall

Other (describe) [ ]

Will this be a required or elective course in the curriculum? [ ] Required [X] Elective

What is the probable enrollment when offered? Estimate: 35

UNITS Indicate number of units: 4

Indicate no. of contact hours: 2 Lecture [ ] Seminar 2 Tutorial [ ] Lab [ ] Other; explain below

OTHER

[ ]

FACULTY

Which of your present CFL faculty have the expertise to offer this course?

Mariam Georgis, June Scudeler, Amy Krauss

WQB DESIGNATION

(attach approval from Curriculum Office)

[ ]

PREREQUISITE AND / OR COREQUISITE

[ ]



**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.

**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.]

Students with credit for GSWS 215 under the title "Introduction to Indigenous Feminisms and Global Indigeneities" or GSWS 320 under the title "Indigeneities Around the World" or GSWS 321 under the title "Indigeneities Around the Globe" may not take this course for further credit.

**FEES**

Are there any proposed student fees associated with this course other than tuition fees?  YES  NO

**COURSE - LEVEL EDUCATIONAL GOALS (OPTIONAL)**



**RESOURCES**

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

Additional resources not applicable.

**OTHER IMPLICATIONS**

Final exam required  YES  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**

Mariam Georgis



COURSE SUBJECT  NUMBER

COURSE TITLE LONG — for Calendar/schedule, no more than 100 characters including spaces and punctuation

COURSE TITLE SHORT — for enrollment/transcript, no more than 30 characters including spaces and punctuation

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.

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](http://www.lib.sfu.ca/about/overview/collections/course-assessments).

RATIONALE FOR INTRODUCTION OF THIS COURSE



SCHEDULING AND ENROLLMENT INFORMATION

Effective term and year (e.g. FALL 2016) Fall 2026

Term in which course will typically be offered [checked] Spring [checked] Summer [ ] Fall

Other (describe) [ ]

Will this be a required or elective course in the curriculum? [ ] Required [checked] Elective

What is the probable enrollment when offered? Estimate: 40

UNITS Indicate number of units: 4

Indicate no. of contact hours: 2 Lecture [ ] Seminar 2 Tutorial [ ] Lab [ ] Other; explain below

OTHER

[ ]

FACULTY

Which of your present CFL faculty have the expertise to offer this course?

Carman Fung, Helen Leung

WQB DESIGNATION

(attach approval from Curriculum Office)

[ ]

PREREQUISITE AND / OR COREQUISITE

30 units including three units in GSWS



**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.

**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.]

Student with credit for GSWS 319 under the title "Queer Fandoms" may not take this course for further credit.

**FEEES**

Are there any proposed student fees associated with this course other than tuition fees?  YES  NO

**COURSE - LEVEL EDUCATIONAL GOALS (OPTIONAL)**



**RESOURCES**

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

**OTHER IMPLICATIONS**

Final exam required  YES  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**

Carman Fung

COURSE SUBJECT NUMBER 

COURSE TITLE LONG — for Calendar/schedule, no more than 100 characters including spaces and punctuation

COURSE TITLE SHORT — for enrollment/transcript, no more than 30 characters including spaces and punctuation

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.

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](http://www.lib.sfu.ca/about/overview/collections/course-assessments).**RATIONALE FOR INTRODUCTION OF THIS COURSE**



SCHEDULING AND ENROLLMENT INFORMATION

Effective term and year (e.g. FALL 2016) FALL 2026

Term in which course will typically be offered [X] Spring [X] Summer [X] Fall

Other (describe) [ ]

Will this be a required or elective course in the curriculum? [ ] Required [X] Elective

What is the probable enrollment when offered? Estimate: 30

UNITS Indicate number of units: 1

Indicate no. of contact hours: 1 Lecture [ ] Seminar [ ] Tutorial [ ] Lab [ ] Other; explain below

OTHER

[ ]

FACULTY

Which of your present CFL faculty have the expertise to offer this course?

Maite Taboada, Henny Yeung, Chung-hye Han

WQB DESIGNATION

(attach approval from Curriculum Office)

None.

PREREQUISITE AND / OR COREQUISITE

None.



**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.

**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?  YES  NO

**COURSE - LEVEL EDUCATIONAL GOALS (OPTIONAL)**

Students will gain a particular practical skill related to lingsuitics research or linguistics teaching.



**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  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**

Chung-hye Han

COURSE SUBJECT NUMBER 

COURSE TITLE LONG — for Calendar/schedule, no more than 100 characters including spaces and punctuation

COURSE TITLE SHORT — for enrollment/transcript, no more than 30 characters including spaces and punctuation

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.

Maps out Hispanic countries' contributions to the world's literary heritage, whether in the form of one of the region's great authorial voices, a particular period or movement, or a defining theme. This exploration will tease out the ways in which these contributions are inscribed in a dynamic global matrix wherein cultures are negotiated and transformed through on-going dialogue and exchange. This course may be repeated once for credit when different topics are offered.

REPEAT FOR CREDIT  YES  NO Total completions allowed  Within a term?  YES  NO**LIBRARY RESOURCES**

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**RATIONALE FOR INTRODUCTION OF THIS COURSE**

Since the formation of the new Department of World Languages and Literatures in January 2020, work began to better intertwine our curricula. With the addition of this course, we add a linguistically-specific offering to our WL curriculum. This course, which explicitly foregrounds Spanish texts in translation, can be taken by students pursuing a WL major or minor, but will also serve as an elective for students who wish to complete the Spanish Studies Certificate. By cross listing, we can make more efficient use of our limited faculty resources as well as ensure more robust enrollments in the course.

The aim of this course is to introduce prominent Spanish texts and/or genres that have traveled in translation and made an impact beyond originally intended regional audiences. By demonstrating the significance of the chosen texts in both their domestic and foreign contexts, students will gain an insight into Hispanic cultures and literatures, but also learn how these regional products can also have an international presence, becoming influential with audiences outside their home contexts. In so doing, students will also learn, through a specific regional case study, the cultural, historical, linguistic, and economic factors that allow a work of regional literature to become world literature, and the transformations that texts undergo as a result.



SCHEDULING AND ENROLLMENT INFORMATION

Effective term and year (e.g. FALL 2016) Fall 2026

Term in which course will typically be offered [X] Spring [ ] Summer [ ] Fall

Other (describe) [ ]

Will this be a required or elective course in the curriculum? [ ] Required [X] Elective

What is the probable enrollment when offered? Estimate: 24

UNITS Indicate number of units: 4

Indicate no. of contact hours: [ ] Lecture 4 Seminar [ ] Tutorial [ ] Lab [ ] Other; explain below

OTHER

[ ]

FACULTY

Which of your present CFL faculty have the expertise to offer this course?

Maria Barraza

WQB DESIGNATION

(attach approval from Curriculum Office)

[ ]

PREREQUISITE AND / OR COREQUISITE

45 units 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?  YES  NO

#### COURSE - LEVEL EDUCATIONAL GOALS (OPTIONAL)

- acquaint students with an enduring Spanish literary classic/movement/genre or period/theme and the tradition that it sprang from
- emphasize the interconnectedness of Spanish literatures and world literatures and the transmission of form and content
- provide a broad-scope sense of literary history
- encourage critical reading and textual analysis praxis
- practice academic writing and presentation skills



**RESOURCES**

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

n/a

**OTHER IMPLICATIONS**

Final exam required  YES  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**

Maria Barraza

COURSE SUBJECT NUMBER 

COURSE TITLE LONG — for Calendar/schedule, no more than 100 characters including spaces and punctuation

COURSE TITLE SHORT — for enrollment/transcript, no more than 30 characters including spaces and punctuation

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.

Inspects the record of human impact on the environment by diving into the subatomic world of isotopes. Students will study modern local/ global case studies from mapping Pacific food webs to the Fukushima nuclear disaster. Students will develop a diverse “isotope toolbox” for understanding different environmental issues and controversies.

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](http://www.lib.sfu.ca/about/overview/collections/course-assessments).

**RATIONALE FOR INTRODUCTION OF THIS COURSE**

Stable and radioactive isotope chemistry is an invaluable tool in the field of environmental science, and in the study of human impact on our environment. Isotope chemistry has been fundamental to establishing important linkages between human activities - like fossil fuel burning, nuclear weapons testing and uranium mining - and environmental degradation. At the same time, this subfield of environmental science has provided a useful approach to characterizing and quantifying key ecosystem services to society, like carbon sequestration in the ocean and the reallocation of nutrients during the Pacific salmon return. For all of these reasons, it is important that students in the School of Environmental Science and other departments at SFU develop their “isotope toolbox” for understanding different environmental challenges to society. Within the EVSC major, this toolbox would be useful to students in all streams. This course will be required for students in the Coastal and Marine Science stream.

Taking a course like EVSC 350 will enhance knowledge of how isotope measurements are obtained, encourage data analysis in real-world applied contexts, and provide exposure to a diverse array of contemporary environmental problems. In particular, the knowledge of environmental chemistry and radioactivity developed in this course will prepare students to debate controversial topics like nuclear power. These outcomes will be achieved through field trips, tutorials, class discussions, and guest speakers, together providing an immersive, hands-on experience for students in this class.

Notably, there are courses at SFU that offer a range of training in isotope chemistry, but their overlap with this proposed course is minimal for several reasons. EASC 600, Environmental Isotopes, is offered to graduate students, limiting the number of undergraduate students that would have access to this course. Undergraduate course EASC 208, Introductory Geochemistry, includes stable and radiogenic isotopes, but predominantly from an earth systems history perspective. Undergraduate course ARCH 425, Archaeometry, includes isotope analysis techniques, but primarily in archaeological case studies. Isotope applications in EVSC 350 will focus on our modern changing oceans, climate and biosphere, and their interdisciplinary contexts. In line with our mandate at the School of Environmental Science, students in this new course will leave with an in-depth understanding of critical environmental challenges confronting society today, and the role of isotopes in environmental problem-solving.



SCHEDULING AND ENROLLMENT INFORMATION

Effective term and year (e.g. FALL 2016) Fall 2026

Term in which course will typically be offered [X] Spring [ ] Summer [ ] Fall

Other (describe) [ ]

Will this be a required or elective course in the curriculum? [X] Required [ ] Elective

What is the probable enrollment when offered? Estimate: 40

UNITS Indicate number of units: 3

Indicate no. of contact hours: 2 Lecture [ ] Seminar 1 Tutorial [ ] Lab [ ] Other; explain below

OTHER

[ ]

FACULTY

Which of your present CFL faculty have the expertise to offer this course?

Sarah Rosengard, Jessica Pilarczyk, Karen Kohfeld

WQB DESIGNATION

(attach approval from Curriculum Office)

[ ]

PREREQUISITE AND / OR COREQUISITE

One of EVSC 100 or GEOG 111 or EASC 101 or REM 100; and one of Chemistry 12 (or equivalent) or CHEM 120 or CHEM 121.

**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.

**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.]

Students who have taken EVSC 395 under the title "Environmental Isotopes" in Spring 2026 may not take this course for further credit.

#### FEEES

Are there any proposed student fees associated with this course other than tuition fees?  YES  NO

#### COURSE - LEVEL EDUCATIONAL GOALS (OPTIONAL)

1. Describe the basic physical structure of matter on an atomic scale
2. Predict the behavior of stable and radioactive isotopes in modern Earth surface environments: the oceans, atmosphere and biosphere
3. Apply principles of isotope fractionation and radioactivity to a variety of environmental science case studies relevant to human impact and environmental resources today
4. Analyze and interpret environmental data collected from the oceans, atmosphere and biosphere
5. Build evidence-based arguments around environmental controversies related to nuclear technology



**RESOURCES**

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

**OTHER IMPLICATIONS**

Final exam required  YES  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**

Sarah Rosengard

COURSE SUBJECT NUMBER 

COURSE TITLE LONG — for Calendar/schedule, no more than 100 characters including spaces and punctuation

COURSE TITLE SHORT — for enrollment/transcript, no more than 30 characters including spaces and punctuation

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.

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](http://www.lib.sfu.ca/about/overview/collections/course-assessments).

**RATIONALE FOR INTRODUCTION OF THIS COURSE**



**SCHEDULING AND ENROLLMENT INFORMATION**

Effective term and year (e.g. FALL 2016)

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:

**UNITS**

Indicate number of units:

Indicate no. of contact hours:  Lecture  Seminar  Tutorial  Lab  Other; explain below

**OTHER**

**FACULTY**

Which of your present CFL faculty have the expertise to offer this course?

This course was developed and taught by Dr. Tanya Brown, who will continue to offer it.

**WQB DESIGNATION**

(attach approval from Curriculum Office)

**PREREQUISITE AND / OR COREQUISITE**

Prerequisites: BISC 101, BISC 102, and BISC 205, all with a minimum grade of C-.



**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.

**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.]

Students with credit for BISC 475 under the title "Marine Mammal Ecotoxicology" may not take this course for further credit.

**FEEES**

Are there any proposed student fees associated with this course other than tuition fees?  YES  NO

**COURSE - LEVEL EDUCATIONAL GOALS (OPTIONAL)**



**RESOURCES**

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

N/A

**OTHER IMPLICATIONS**

Final exam required  YES  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**

Kathleen Fitzpatrick, University Lecturer, Biological Sciences