



OFFICE OF THE ASSOCIATE VICE-PRESIDENT, ACADEMIC AND
ASSOCIATE PROVOST

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MEMORANDUM

ATTENTION	Senate	DATE	June 8, 2012
FROM	Bill Krane, Chair	PAGES	1/1
RE:	Senate Committee on Undergraduate Studies Faculty of Environment (SCUS 12-27)		

For information:

Acting under delegated authority at its meeting of June 7, 2012, SCUS approved the following curriculum revisions effective Spring 2013:

1. Department of Archaeology (SCUS 12-27a)
 - (i) Prerequisite change to ARCH 301, 350, 351, 376, 450, 451
 - (ii) Changes to the Archaeology Co-operative Education Program
 - (iii) Changes to the Archaeology Major Program
 - (iv) Changes to the Archaeology Honours Program
 - (v) Changes to the Archaeology Extended Minor Program
2. Faculty of Environment (SCUS 12-27b)
 - (i) Changes to the Certificate in Environmental Literacy
3. Department of Geography (SCUS 12-27c)
 - (i) New Course Proposals:
 - GEOG 319-4, Landscape Ecology(Fall 2013)
 - GEOG 321-4, Geographies of Global Capitalism
 - GEOG 421-4, Geographical Political Economy(Fall 2013)
 - GEOG 424-4, Cities, Transportation, Infrastructure

Senators wishing to consult a more detailed report of curriculum revisions may do so by going to Docushare: <https://docushare.sfu.ca/dsweb/View/Collection-12682>
If you are unable to access the information, please call [778-782-3168](tel:778-782-3168) or email shelley_gair@sfu.ca.



SCUS 12-27

FACULTY OF ENVIRONMENT

MEMO

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ATTENTION	Bill Krane, Chair, SCUS
FROM	Duncan Knowler, Chair, FENV Curriculum Committee
RE	Faculty of Environment Course and Program Changes
DATE	April 19, 2012

The following were approved by the Faculty of Environment Undergraduate Curriculum Committee at its meeting of April 12, 2012 and are being forwarded to SCUS for approval and recommendation to Senate.

- Department of Archaeology (ARCH)
 - ARCH 301 - Course Change
 - ARCH 350 - Course Change
 - ARCH 351 - Course Change
 - ARCH 376 - Course Change
 - ARCH 450 - Course Change
 - ARCH 451 - Course Change
 - Co-op Calendar and Course Changes
 - Archaeology Major Program Revision
 - Archaeology Honours Program Revision
 - Archaeology Extended Minor Program Revision
- Faculty of Environment (ENV)
 - Certificate in Environmental Literacy - Calendar Changes
- Department of Geography (GEOG)
 - GEOG 319 - New Course Proposal
 - GEOG 321 - New Course Proposal
 - GEOG 421 - New Course Proposal
 - GEOG 424 - New Course Proposal

Please add these items to the agenda for the next SCUS meeting.

Thanks kindly,

Duncan Knowler
Associate Dean, FENV



SIMON FRASER UNIVERSITY
ENGAGING THE WORLD

**DEPARTMENT OF ARCHAEOLOGY
MEMORANDUM**

To: Duncan Knowler, Chair, Faculty of Environment Curriculum Committee
From: Bob Muir, Undergraduate Curriculum Committee Chair, Archaeology
Re: Dept. of Archaeology Undergraduate Curriculum Items for Review and Approval
Date: March 28, 2012

At a recent (March 15, 2012) meeting of the Archaeology Department Undergraduate Executive Committee the following Program/Calendar changes were proposed, discussed, and approved.

Proposed Calendar Changes:

1. Archaeology Co-operative Education Program – Calendar and course changes for Archaeology Co-op Program.

Notes: Paul DeGrace, Co-op Coordinator for the Faculty of Environment, has proposed these calendar and course changes. The intent is to make the listings/requirements consistent with other Faculty of Environment Co-op programs. Most substantively, we are eliminating the specific archaeology course requirements and GPA requirement. Change forms for ARCH 350, 351, 450, and 451 are attached.

2. Archaeology Major Program – Revision of wording

Notes: The “Languages Other Than English” recommendation was deemed to be no longer appropriate given that the lack of a second language is not a serious impediment to students pursuing graduate studies in most aspects of archaeology or biological anthropology. This deletion applies to all of the other programs listed below, as well.

Addition of the the phrase “(prerequisite for Arch 376)” is intended to clarify the relevance of the preceding recommended course list (i.e., “Stat 101, 201 or 203”).

3. Archaeology Honours Program – Revision of wording

Notes: The introductory statement has been amended to alleviate ambiguities and correct inaccuracies.

Arch 376 is to be deleted from the "Recommended Courses", as it is a required course for the honours program.

4. Archaeology Extended Minor Program – Revision of wording

Notes: The lower division requirements were incomplete as listed, lacking reference to the "any two of" listing.

Also, since major restructuring of our curriculum last year, the comment regarding special topics and/or directed studies courses is no longer valid.

Proposed Course Changes:

- 1. ARCH 301-3 Ancient Visual Art**
- 2. ARCH 350-3 Practicum I**
- 3. ARCH 351-3 Practicum II**
- 4. ARCH 376-5 Quantitative Methods in Archaeology**
- 5. ARCH 450-3 Practicum III**
- 6. ARCH 451-3 Practicum IV**

We accordingly submit the revised program for your review and Senate consideration, as needed. Pending approval, changes will be effective spring semester 2013.


EXISTING COURSE, CHANGES RECOMMENDED

Please check appropriate revision(s):

☐ Course number ☐ Credit ☐ Title ☐ Description ☒ Prerequisite ☐ Course deletion

 Indicate number of hours for: Lecture 3 Seminar _____ Tutorial _____ Lab _____

FROM

 Course Number ARCH 301

 Credit Hour 3
TO

Course Number _____

Credit Hour _____

TITLE

(1) Long title for calendar and schedule, no more than 100 characters including spaces and punctuation.

Ancient Visual Art

(2) Short title for enrollment and transcript, no more than 30 characters including spaces and punctuation.

Ancient Visual Art

DESCRIPTION _____

DESCRIPTION _____

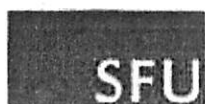
 PREREQUISITE None

 PREREQUISITE 45 credit hours
RATIONALE

This upper division course currently does not have a prerequisite.

 Does this course replicate the content of a previously approved course to such an extent that students should not receive credit for both courses?
 If so, this should be **noted in the prerequisite.**

 Effective term and year Spring (January) 2013



SENATE COMMITTEE ON
UNDERGRADUATE STUDIES

COURSE CHANGE/DELETION
OCTOBER 2007

EXISTING COURSE, CHANGES RECOMMENDED

Please check appropriate revision(s):

☐ Course number ☐ Credit ☐ Title ☐ Description ☒ Prerequisite ☐ Course deletion

Indicate number of hours for: Lecture _____ Seminar _____ Tutorial _____ Lab _____

FROM

Course Number **ARCH 350**

Credit Hour: **3**

TO

Course Number _____

Credit Hour _____

TITLE

(1) Long title for calendar and schedule, no more than 100 characters including spaces and punctuation.

Practicum I

(2) Short title for enrollment and transcript, no more than 30 characters including spaces and punctuation.

Practicum I

DESCRIPTION _____ DESCRIPTION _____

PREREQUISITE normally 45 units with a CGPA of 3.0 and the following courses are recommended:

both ARCH 131 and 201; either ARCH 272 or 273; and three of ARCH 372, 373, 376, 377, 386, 442.

PREREQUISITE acceptance in the Environment

Co-operative Education Program.

RATIONALE

New language puts the Archaeology co-op language in line with the co-op content for the rest of the Faculty of Environment co-op programs.

Does this course replicate the content of a previously approved course to such an extent that students should not receive credit for both courses?
If so, this should be **noted in the prerequisite.**

Effective term and year **Spring (January) 2013**



SENATE COMMITTEE ON
UNDERGRADUATE STUDIES

COURSE CHANGE/DELETION
OCTOBER 2007

EXISTING COURSE, CHANGES RECOMMENDED

Please check appropriate revision(s):

☐ Course number ☐ Credit ☐ Title ☐ Description ☒ Prerequisite ☐ Course deletion

Indicate number of hours for: Lecture _____ Seminar _____ Tutorial _____ Lab _____

FROM

Course Number ARCH 351

Credit Hour 3

TO

Course Number _____

Credit Hour _____

TITLE

(1) Long title for calendar and schedule, no more than 100 characters including spaces and punctuation.

Practicum II

(2) Short title for enrollment and transcript, no more than 30 characters including spaces and punctuation.

Practicum II

DESCRIPTION _____ DESCRIPTION _____

PREREQUISITE normally 45 units with a
CGPA of 3.0 and ARCH 350.

PREREQUISITE ARCH 350 and readmission
to the Environment Co-operative Education Program.

RATIONALE

New language puts the Archaeology co-op language in line with the co-op content for the rest of the Faculty of Environment co-op programs.

Does this course replicate the content of a previously approved course to such an extent that students should not receive credit for both courses?
If so, this should be **noted in the prerequisite.**

Effective term and year: Spring (January) 2013



SENATE COMMITTEE ON
UNDERGRADUATE STUDIES

COURSE CHANGE/DELETION
OCTOBER 2007

EXISTING COURSE, CHANGES RECOMMENDED

Please check appropriate revision(s):

☐ Course number ☐ Credit ☐ Title ☐ Description ☒ Prerequisite ☐ Course deletion

Indicate number of hours for: Lecture 3 Seminar 2 Tutorial _____ Lab _____

FROM

TO

Course Number ARCH 376 Course Number _____

Credit Hour 5 Credit Hour _____

TITLE

(1) Long title for calendar and schedule, no more than 100 characters including spaces and punctuation.

Quantitative Methods in Archaeology

(2) Short title for enrollment and transcript, no more than 30 characters including spaces and punctuation.

Quantitative Methods

DESCRIPTION _____ DESCRIPTION _____

PREREQUISITE ARCH 201, and either STAT 203 PREREQUISITE ARCH 201, and any of STAT 101,
(formerly 103) or PSYC 210. STAT 201, STAT 203 or PSYC 210.

RATIONALE

To allow students a greater range of choice in course selection. Revised prerequisites are more applicable to the course content (particularly Stat 201), and suitable for students pursuing studies in environmental archaeology or biological anthropology.

Does this course replicate the content of a previously approved course to such an extent that students should not receive credit for both courses?
If so, this should be **noted in the prerequisite.**

Effective term and year Spring (January) 2013.



SENATE COMMITTEE ON
UNDERGRADUATE STUDIES

COURSE CHANGE/DELETION
OCTOBER 2007

EXISTING COURSE, CHANGES RECOMMENDED

Please check appropriate revision(s):

☐ Course number ☐ Credit ☐ Title ☐ Description ☒ Prerequisite ☐ Course deletion

Indicate number of hours for: Lecture _____ Seminar _____ Tutorial _____ Lab _____

FROM

Course Number ARCH 450

Credit Hour 3

TO

Course Number _____

Credit Hour _____

TITLE

(1) Long title for calendar and schedule, no more than 100 characters including spaces and punctuation.

Practicum III

(2) Short title for enrollment and transcript, no more than 30 characters including spaces and punctuation.

Practicum III

DESCRIPTION _____ DESCRIPTION _____

PREREQUISITE normally 45 units with a
CGPA of 3.0 and ARCH 351.

PREREQUISITE ARCH 351 and readmission to the
Environment Co-operative Education Program.

RATIONALE

New language puts the Archaeology co-op language in line with the co-op content for the rest of the Faculty of Environment co-op programs.

Does this course replicate the content of a previously approved course to such an extent that students should not receive credit for both courses?
If so, this should be **noted in the prerequisite.**

Effective term and year Spring (January) 2013



SENATE COMMITTEE ON
UNDERGRADUATE STUDIES

COURSE CHANGE/DELETION
OCTOBER 2007

EXISTING COURSE, CHANGES RECOMMENDED

Please check appropriate revision(s):

☐ Course number ☐ Credit ☐ Title ☐ Description ☒ Prerequisite ☐ Course deletion

Indicate number of hours for: Lecture _____ Seminar _____ Tutorial _____ Lab _____

FROM

Course Number ARCH 451

Credit Hour 3

TO

Course Number _____

Credit Hour _____

TITLE

(1) Long title for calendar and schedule, no more than 100 characters including spaces and punctuation.

Practicum IV

(2) Short title for enrollment and transcript, no more than 30 characters including spaces and punctuation.

Practicum IV

DESCRIPTION _____ DESCRIPTION _____

PREREQUISITE normally 45 units with a
CGPA of 3.0 and ARCH 450.

PREREQUISITE ARCH 450 and readmission to the
Environment Co-operative Education Program.

RATIONALE

New language puts the Archaeology co-op language in line with the co-op content for the rest of the Faculty of Environment co-op programs.

Does this course replicate the content of a previously approved course to such an extent that students should not receive credit for both courses?
If so, this should be **noted in the prerequisite.**

Effective term and year Spring (January) 2013

DEPARTMENT OF ARCHAEOLOGY PROPOSED PROGRAM/PROGRAM-RELATED CALENDAR CHANGES

The following program/calendar changes are submitted to the chair of the Faculty of Environment Curriculum Committee for consideration, as needed, by the committee at its meeting on April 12, 2012. Rationale for these changes is provided in the preceding memorandum. Here we proceed from the existing program and calendar description to the proposed program and calendar descriptions.

FROM (Current Program)

1. Archaeology Co-operative Education Program

*Department of Archaeology | Faculty of Environment
Simon Fraser University Calendar 2012 Summer*

~~This program offers work experience in archaeology and physical anthropology and entails planned terms of study and employment (term practicums) in an area of the student's choice. See Co-operative Education regarding job competition, student employer responsibilities, student fees, pay rates and evaluation. During work terms, co-op students are formally enrolled in a job practicum course and are assessed a fee.~~

Admission Requirements

~~To be admitted, an archaeology major must have been declared and the student must have completed at least 45 units, with a minimum cumulative grade point average (CGPA) of 3.0.~~

~~Contact the co-op co-ordinator, undergraduate chair, and/or departmental assistant at least one term before the first work term to participate.~~

~~College transfer students must have at least 15 Simon Fraser University units to be eligible for co-op admission. Transfer students who participated in co-operative education programs elsewhere may be credited with the term(s) already completed pending evaluation and approval of the Simon Fraser University co-op program.~~

Program Requirements

~~The following courses (or equivalent as approved by the department co-op education co-ordinator) are recommended.~~

~~Students complete a total of 21-24 units, including both~~

- ~~— ARCH 131-3 Human Origins~~
- ~~— ARCH 201-3 Introduction to Archaeology~~

~~and one of~~

- ~~— ARCH 272-3 Archaeology of the Old World~~
- ~~— ARCH 273-3 Archaeology of the New World~~

~~and three of~~

- ~~— ARCH 372-5 Material Culture Analysis~~
- ~~— ARCH 373-5 Human Osteology~~
- ~~— ARCH 376-5 Quantitative Methods in Archaeology~~
- ~~— ARCH 377-5 Historical Archaeology~~
- ~~— ARCH 386-3 Archaeological Resource Management~~
- ~~— ARCH 442-5 Forensic Anthropology~~

Grade Requirement

~~Program continuance requires a minimum 3.0 CGPA in all courses.~~

2. Archaeology Major Program

*Department of Archaeology | Faculty of Environment
Simon Fraser University Calendar 2012 Summer*

Course Groupings

Upper division archaeology courses are divided into the following groups.

Group I – Core Courses

- ARCH 372 Material Culture Analysis (5)
- ARCH 471 Archaeological Theory (W) (5)

Group II – Environmental Archaeology Courses

- ARCH 329 Special Topics in Environmental Archaeology (3)
- ARCH 340 Zooarchaeology (5)
- ARCH 365 Ecological Archaeology (3)
- ARCH 375 From Soup to Nuts: The Archaeology of Food (3)
- ARCH 383 Molecular Bioarchaeology (3)
- ARCH 386 Archaeological Resource Management (3)
- ARCH 390 Archaeobotany (5)
- ARCH 438 Geoarchaeology (5)

Group III – Biological Anthropology Courses

- ARCH 322 Special Topics in Biological Anthropology (3)
- ARCH 344 Primate Behaviour (3)
- ARCH 373 Human Osteology (5)
- ARCH 385 Paleoanthropology (5)
- ARCH 432 Advanced Physical Anthropology (5)
- ARCH 442 Forensic Anthropology (5)
- ARCH 452 Introduction to Paleopathology (5)

Group IV – Topical Courses

- ARCH 301 Ancient Visual Art (3)
- ARCH 321 Select Regions in World Archaeology I (3)
- ARCH 331 Select Regions in World Archaeology II (3)
- ARCH 332 Special Topics in Archaeology I (3)
- ARCH 333 Special Topics in Archaeology II (3)
- ARCH 335 Special Laboratory Topics in Archaeology (5)
- ARCH 348 Archaeological Conservation (5)
- ARCH 349 Management of Archaeological Collections (5)
- ARCH 376 Quantitative Methods in Archaeology (5)
- ARCH 377 Historical Archaeology (5)
- ARCH 378 Pacific Northwest North America (3)
- ARCH 434 Archaeological Field Methods (3)
- ARCH 485 Lithic Technology (5)

Program Requirements

Students complete 120 units, as specified below.

Lower Division Requirements

Students complete all of

- ARCH 131 Human Origins (3)
- ARCH 201 Introduction to Archaeology (3)
- ARCH 272 Archaeology of the Old World (3)
- ARCH 273 Archaeology of the New World (3)

and two of

- BISC 102 General Biology (4)
- EVSC 100 Introduction to Environmental Science (3)
- FNST 101 The Cultures, Languages and Origins of Canada's First Peoples (3)
- GEOG 111 Earth Systems (3)
- GEOG 255 Geographical Information Science I (3)
- REM 100 Global Change (3)
- SA 101 Introduction to Anthropology (A) (4)

Upper Division Requirements

Students complete at least 32 upper division archaeology units, which must include
both Group I courses (ARCH 372, 471W)
at least one Group II course
at least one Group III course
at least two Group IV courses, of which one must be ARCH 321 or 331 or 378

Recommended Courses

The following courses are recommended.

- ARCH 376 (required for honours, recommended for majors and those intending to go on to post-graduate work in archaeology)
- BISC 102 (recommended for majors and honors where a focus will be in biological anthropology courses)
- GEOG 111 (recommended for majors and honours where a focus will be in environmental archaeology courses)
- SA 101 (recommended for majors, honours, and those intending to go on to post-graduate work in archaeology)
- STAT 101, 201 or 203

Writing, Quantitative, and Breadth Requirements

Students admitted to Simon Fraser University beginning in the fall 2006 term must meet writing, quantitative and breadth requirements as part of any degree program they may undertake. See Writing, Quantitative, and Breadth Requirements for university-wide information.

WQB Graduation Requirements			
A grade of C- or better is required to earn W, Q or B credit.			
Requirement	Units	Notes	
W - Writing	6	Must include at least one upper division course, taken at Simon Fraser University within the student's major subject	
Q - Quantitative	6	Q courses may be lower or upper division	
B - Breadth	18	Designated Breadth	Must be outside the student's major subject, and may be lower or upper division 6 units Social Sciences: B-Soc 6 units Humanities: B-Hum 6 units Sciences: B-Sci

	6	Additional Breadth	6 units outside the student's major subject (may or may not be B-designated courses, and will likely help fulfil individual degree program requirements) Additional breadth units must be from outside the student's major and may be B-designated (B-Hum, B-Soc, B-Sci courses). Students choosing to complete a joint major, joint honors, double major, two extended minors, an extended minor and a minor, or two minors may satisfy the breadth requirements (designated or not designated) with courses completed in either one or both program areas.
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Residency Requirements and Transfer Credit

The University's residency requirement stipulates that, in most cases, total transfer and course challenge credit may not exceed 60 units, and may not include more than 15 units as upper division work.

Elective Courses

In addition to the courses listed above, students should consult an academic advisor to plan the remaining required elective courses.

~~Languages Other Than English~~

~~Those contemplating graduate work are advised to acquire a reading knowledge of at least one language other than English.~~

3. Archaeology Honours Program

*Department of Archaeology | Faculty of Environment
Simon Fraser University Calendar 2012 Summer*

~~To remain in the program, students must maintain a minimum 3.0 cumulative grade point average (CGPA) and successfully complete 132 units with 50 of these in upper division archaeology. Honors students must complete all course requirements for the major program, as stipulated below, and also complete three additional specified courses (see below).~~

Course Groupings

Upper division archaeology courses are divided into the following groups.

Group I – Core Courses

- ARCH 372 Material Culture Analysis (5)
- ARCH 471 Archaeological Theory (W) (5)

Group II – Environmental Archaeology Courses

- ARCH 329 Special Topics in Environmental Archaeology (3)
- ARCH 340 Zooarchaeology (5)
- ARCH 365 Ecological Archaeology (3)
- ARCH 375 From Soup to Nuts: The Archaeology of Food (3)
- ARCH 383 Molecular Bioarchaeology (3)
- ARCH 386 Archaeological Resource Management (3)
- ARCH 390 Archaeobotany (5)
- ARCH 438 Geoarchaeology (5)

Group III – Biological Anthropology Courses

- ARCH 322 Special Topics in Biological Anthropology (3)
- ARCH 344 Primate Behaviour (3)
- ARCH 373 Human Osteology (5)
- ARCH 385 Paleoanthropology (5)
- ARCH 432 Advanced Physical Anthropology (5)
- ARCH 442 Forensic Anthropology (5)
- ARCH 452 Introduction to Paleopathology (5)

Group IV – Topical Courses

- ARCH 301 Ancient Visual Art (3)
- ARCH 321 Select Regions in World Archaeology I (3)
- ARCH 331 Select Regions in World Archaeology II (3)
- ARCH 332 Special Topics in Archaeology I (3)
- ARCH 333 Special Topics in Archaeology II (3)
- ARCH 335 Special Laboratory Topics in Archaeology (5)
- ARCH 348 Archaeological Conservation (5)
- ARCH 349 Management of Archaeological Collections (5)
- ARCH 376 Quantitative Methods in Archaeology (5)
- ARCH 377 Historical Archaeology (5)
- ARCH 378 Pacific Northwest North America (3)
- ARCH 434 Archaeological Field Methods (3)
- ARCH 485 Lithic Technology (5)

Lower Division Requirements

Students complete all of

- ARCH 131 Human Origins (3)
- ARCH 201 Introduction to Archaeology (3)
- ARCH 272 Archaeology of the Old World (3)
- ARCH 273 Archaeology of the New World (3)

and two of

- BISC 102 General Biology (4)
- EVSC 100 Introduction to Environmental Science (3)
- FNST 101 The Cultures, Languages and Origins of Canada's First Peoples (3)
- GEOG 111 Earth Systems (3)
- GEOG 255 Geographical Information Science I (3)
- REM 100 Global Change (3)
- SA 101 Introduction to Anthropology (A) (4)

Upper Division Requirements

Students complete at least 50 upper division archaeology units, which must include

- both Group I courses (ARCH 372, 471W)
- at least one Group II course
- at least one Group III course
- at least two Group IV courses, of which one must be ARCH 321 or 331 or 378

and all of

- ARCH 376 Quantitative Methods in Archaeology (Q) (5)
- ARCH 498 Honors Reading (5)
- ARCH 499 Honors Thesis (5)

Recommended Courses

The following courses are recommended.

- ~~ARCH 376 (required for honors, recommended for majors and students intending to go on to post-graduate work in archaeology)~~
- BISC 102 (recommended for majors and honors where a focus will be in biological anthropology courses)
- GEOG 111 (recommended for majors and honours where a focus will be in environmental archaeology courses)
- SA 101 (recommended for majors, honours and students intending to go on to post-graduate work in archaeology)
- STAT 101, 201 or 203

Writing, Quantitative, and Breadth Requirements

Students admitted to Simon Fraser University beginning in the fall 2006 term must meet writing, quantitative and breadth requirements as part of any degree program they may undertake. See Writing, Quantitative, and Breadth Requirements for university-wide information.

WQB Graduation Requirements			
A grade of C- or better is required to earn W, Q or B credit.			
Requirement	Units	Notes	
W - Writing	6	Must include at least one upper division course, taken at Simon Fraser University within the student's major subject	
Q - Quantitative	6	Q courses may be lower or upper division	
B - Breadth	18	Designated Breadth	Must be outside the student's major subject, and may be lower or upper division 6 units Social Sciences: B-Soc 6 units Humanities: B-Hum 6 units Sciences: B-Sci
	6	Additional Breadth	6 units outside the student's major subject (may or may not be B-designated courses, and will likely help fulfil individual degree program requirements) Additional breadth units must be from outside the student's major and may be B-designated (B-Hum, B-Soc, B-Sci courses). Students choosing to complete a joint major, joint honors, double major, two extended minors, an extended minor and a minor, or two minors may satisfy the breadth requirements (designated or not designated) with courses completed in either one or both program areas.

Residency Requirements and Transfer Credit

The University's residency requirement stipulates that, in most cases, total transfer and course challenge credit may not exceed 60 units, and may not include more than 15 units as upper division work.

Elective Courses

In addition to the courses listed above, students should consult an academic advisor to plan the remaining required elective courses.

~~Languages Other Than English~~

~~Those contemplating graduate work are advised to acquire a reading knowledge of at least one language other than English.~~

4. Archaeology Extended Minor Program

*Department of Archaeology | Faculty of Environment
Simon Fraser University Calendar 2012 Summer*

This program consists of the lower division requirements for an archaeology major and the upper division requirements for an archaeology minor (see below). Programs must be approved by the department advisor.

Program Requirements

Lower Division Requirements

Students complete a total of 12 units, including all of

- ARCH 131-3 Human Origins
- ARCH 201-3 Introduction to Archaeology
- ARCH 272-3 Archaeology of the Old World
- ARCH 273-3 Archaeology of the New World

Upper Division Requirements

Students complete a total of at least 16 units of archaeology, which must include one course from each of groups I, II, III and IV listed below.

Course Groupings

Upper division archaeology courses are divided into the following groups.

Group I – Core Courses

- ARCH 372 Material Culture Analysis (5)
- ARCH 471 Archaeological Theory (W) (5)

Group II – Environmental Archaeology Courses

- ARCH 329 Special Topics in Environmental Archaeology (3)
- ARCH 340 Zooarchaeology (5)
- ARCH 365 Ecological Archaeology (3)
- ARCH 375 From Soup to Nuts: The Archaeology of Food (3)
- ARCH 383 Molecular Bioarchaeology (3)
- ARCH 386 Archaeological Resource Management (3)
- ARCH 390 Archaeobotany (5)
- ARCH 438 Geoarchaeology (5)

Group III – Biological Anthropology Courses

- ARCH 322 Special Topics in Biological Anthropology (3)
- ARCH 344 Primate Behaviour (3)
- ARCH 373 Human Osteology (5)
- ARCH 385 Paleoanthropology (5)
- ARCH 432 Advanced Physical Anthropology (5)
- ARCH 442 Forensic Anthropology (5)
- ARCH 452 Introduction to Paleopathology (5)

Group IV – Topical Courses

- ARCH 301 Ancient Visual Art (3)
- ARCH 321 Select Regions in World Archaeology I (3)
- ARCH 331 Select Regions in World Archaeology II (3)
- ARCH 332 Special Topics in Archaeology I (3)
- ARCH 333 Special Topics in Archaeology II (3)

- ARCH 335 Special Laboratory Topics in Archaeology (5)
- ARCH 348 Archaeological Conservation (5)
- ARCH 349 Management of Archaeological Collections (5)
- ARCH 376 Quantitative Methods in Archaeology (5)
- ARCH 377 Historical Archaeology (5)
- ARCH 378 Pacific Northwest North America (3)
- ARCH 434 Archaeological Field Methods (3)
- ARCH 485 Lithic Technology (5)

~~Special topics and/or directed studies courses may substitute for group II, III or IV courses, provided the content suggests a suitable substitution, and written department consent is obtained prior to enrolment.~~

Writing, Quantitative, and Breadth Requirements

Students admitted to Simon Fraser University beginning in the fall 2006 term must meet writing, quantitative and breadth requirements as part of any degree program they may undertake. See Writing, Quantitative, and Breadth Requirements for university-wide information.

WQB Graduation Requirements			
A grade of C- or better is required to earn W, Q or B credit.			
Requirement	Units	Notes	
W - Writing	6	Must include at least one upper division course, taken at Simon Fraser University within the student's major subject	
Q - Quantitative	6	Q courses may be lower or upper division	
B - Breadth	18	Designated Breadth	Must be outside the student's major subject, and may be lower or upper division 6 units Social Sciences: B-Soc 6 units Humanities: B-Hum 6 units Sciences: B-Sci
	6	Additional Breadth	6 units outside the student's major subject (may or may not be B-designated courses, and will likely help fulfil individual degree program requirements) Additional breadth units must be from outside the student's major and may be B-designated (B-Hum, B-Soc, B-Sci courses). Students choosing to complete a joint major, joint honors, double major, two extended minors, an extended minor and a minor, or two minors may satisfy the breadth requirements (designated or not designated) with courses completed in either one or both program areas.

TO (Proposed Program)

1. Archaeology Co-operative Education Program

*Department of Archaeology | Faculty of Environment
Simon Fraser University Calendar 2012 Summer*

This program combines relevant work experience with academic studies. Students alternate study terms with study-related employment. The program includes pre-employment orientation and four full-time paid work terms.

To enroll, students should review the program requirements: www.sfu.ca/coop/env. Students are encouraged to seek advice from the Co-ordinator of the Environment Co-op Program as early as possible in their university career to facilitate optimal scheduling. For information, contact the Co-ordinator, Environment Co-op Program, c/o Department of Geography, 7130 Robert C. Brown Hall, 778.782.3115 or degrace@sfu.ca

2. Archaeology Major Program

*Department of Archaeology | Faculty of Environment
Simon Fraser University Calendar 2012 Summer*

Course Groupings

Upper division archaeology courses are divided into the following groups.

Group I – Core Courses

- ARCH 372 Material Culture Analysis (5)
- ARCH 471 Archaeological Theory (W) (5)

Group II – Environmental Archaeology Courses

- ARCH 329 Special Topics in Environmental Archaeology (3)
- ARCH 340 Zooarchaeology (5)
- ARCH 365 Ecological Archaeology (3)
- ARCH 375 From Soup to Nuts: The Archaeology of Food (3)
- ARCH 383 Molecular Bioarchaeology (3)
- ARCH 386 Archaeological Resource Management (3)
- ARCH 390 Archaeobotany (5)
- ARCH 438 Geoarchaeology (5)

Group III – Biological Anthropology Courses

- ARCH 322 Special Topics in Biological Anthropology (3)
- ARCH 344 Primate Behaviour (3)
- ARCH 373 Human Osteology (5)
- ARCH 385 Paleoanthropology (5)
- ARCH 432 Advanced Physical Anthropology (5)
- ARCH 442 Forensic Anthropology (5)
- ARCH 452 Introduction to Paleopathology (5)

Group IV – Topical Courses

- ARCH 301 Ancient Visual Art (3)
- ARCH 321 Select Regions in World Archaeology I (3)
- ARCH 331 Select Regions in World Archaeology II (3)

- ARCH 332 Special Topics in Archaeology I (3)
- ARCH 333 Special Topics in Archaeology II (3)
- ARCH 335 Special Laboratory Topics in Archaeology (5)
- ARCH 348 Archaeological Conservation (5)
- ARCH 349 Management of Archaeological Collections (5)
- ARCH 376 Quantitative Methods in Archaeology (5)
- ARCH 377 Historical Archaeology (5)
- ARCH 378 Pacific Northwest North America (3)
- ARCH 434 Archaeological Field Methods (3)
- ARCH 485 Lithic Technology (5)

Program Requirements

Students complete 120 units, as specified below.

Lower Division Requirements

Students complete all of

- ARCH 131 Human Origins (3)
- ARCH 201 Introduction to Archaeology (3)
- ARCH 272 Archaeology of the Old World (3)
- ARCH 273 Archaeology of the New World (3)

and two of

- BISC 102 General Biology (4)
- EVSC 100 Introduction to Environmental Science (3)
- FNST 101 The Cultures, Languages and Origins of Canada's First Peoples (3)
- GEOG 111 Earth Systems (3)
- GEOG 255 Geographical Information Science I (3)
- REM 100 Global Change (3)
- SA 101 Introduction to Anthropology (A) (4)

Upper Division Requirements

Students complete at least 32 upper division archaeology units, which must include

- both Group I courses (ARCH 372, 471W)
- at least one Group II course
- at least one Group III course
- at least two Group IV courses, of which one must be ARCH 321 or 331 or 378

Recommended Courses

The following courses are recommended.

- ARCH 376 (required for honours, recommended for majors and those intending to go on to post-graduate work in archaeology)
- BISC 102 (recommended for majors and honors where a focus will be in biological anthropology courses)
- GEOG 111 (recommended for majors and honours where a focus will be in environmental archaeology courses)
- SA 101 (recommended for majors, honours, and those intending to go on to post-graduate work in archaeology)
- STAT 101, 201 or 203 (prerequisite for ARCH 376)

Writing, Quantitative, and Breadth Requirements

Students admitted to Simon Fraser University beginning in the fall 2006 term must meet writing, quantitative and breadth requirements as part of any degree program they may undertake. See Writing, Quantitative, and Breadth Requirements for university-wide information.

WQB Graduation Requirements			
A grade of C- or better is required to earn W, Q or B credit.			
Requirement	Units	Notes	
W - Writing	6	Must include at least one upper division course, taken at Simon Fraser University within the student's major subject	
Q - Quantitative	6	Q courses may be lower or upper division	
B - Breadth	18	Designated Breadth	Must be outside the student's major subject, and may be lower or upper division 6 units Social Sciences: B-Soc 6 units Humanities: B-Hum 6 units Sciences: B-Sci
	6	Additional Breadth	6 units outside the student's major subject (may or may not be B-designated courses, and will likely help fulfil individual degree program requirements) Additional breadth units must be from outside the student's major and may be B-designated (B-Hum, B-Soc, B-Sci courses). Students choosing to complete a joint major, joint honors, double major, two extended minors, an extended minor and a minor, or two minors may satisfy the breadth requirements (designated or not designated) with courses completed in either one or both program areas.

Residency Requirements and Transfer Credit

The University's residency requirement stipulates that, in most cases, total transfer and course challenge credit may not exceed 60 units, and may not include more than 15 units as upper division work.

Elective Courses

In addition to the courses listed above, students should consult an academic advisor to plan the remaining required elective courses.

3. Archaeology Honours Program

Department of Archaeology | Faculty of Environment

Simon Fraser University Calendar 2012 Summer

GRADUATION

Students must maintain a minimum 3.0 cumulative grade point average (CGPA) and successfully complete 132 units, of which 60 units must be at the upper division level. Honours students must complete all course requirements for the major program as well as ARCH 376, 498, and 499.

Course Groupings

Upper division archaeology courses are divided into the following groups.

Group I – Core Courses

- ARCH 372 Material Culture Analysis (5)
- ARCH 471 Archaeological Theory (W) (5)

Group II – Environmental Archaeology Courses

- ARCH 329 Special Topics in Environmental Archaeology (3)
- ARCH 340 Zooarchaeology (5)

- ARCH 365 Ecological Archaeology (3)
- ARCH 375 From Soup to Nuts: The Archaeology of Food (3)
- ARCH 383 Molecular Bioarchaeology (3)
- ARCH 386 Archaeological Resource Management (3)
- ARCH 390 Archaeobotany (5)
- ARCH 438 Geoarchaeology (5)

Group III – Biological Anthropology Courses

- ARCH 322 Special Topics in Biological Anthropology (3)
- ARCH 344 Primate Behaviour (3)
- ARCH 373 Human Osteology (5)
- ARCH 385 Paleoanthropology (5)
- ARCH 432 Advanced Physical Anthropology (5)
- ARCH 442 Forensic Anthropology (5)
- ARCH 452 Introduction to Paleopathology (5)

Group IV – Topical Courses

- ARCH 301 Ancient Visual Art (3)
- ARCH 321 Select Regions in World Archaeology I (3)
- ARCH 331 Select Regions in World Archaeology II (3)
- ARCH 332 Special Topics in Archaeology I (3)
- ARCH 333 Special Topics in Archaeology II (3)
- ARCH 335 Special Laboratory Topics in Archaeology (5)
- ARCH 348 Archaeological Conservation (5)
- ARCH 349 Management of Archaeological Collections (5)
- ARCH 376 Quantitative Methods in Archaeology (5)
- ARCH 377 Historical Archaeology (5)
- ARCH 378 Pacific Northwest North America (3)
- ARCH 434 Archaeological Field Methods (3)
- ARCH 485 Lithic Technology (5)

Lower Division Requirements

Students complete all of

- ARCH 131 Human Origins (3)
- ARCH 201 Introduction to Archaeology (3)
- ARCH 272 Archaeology of the Old World (3)
- ARCH 273 Archaeology of the New World (3)

and two of

- BISC 102 General Biology (4)
- EVSC 100 Introduction to Environmental Science (3)
- FNST 101 The Cultures, Languages and Origins of Canada's First Peoples (3)
- GEOG 111 Earth Systems (3)
- GEOG 255 Geographical Information Science I (3)
- REM 100 Global Change (3)
- SA 101 Introduction to Anthropology (A) (4)

Upper Division Requirements

Students complete at least 50 upper division archaeology units, which must include

- both Group I courses (ARCH 372, 471W)
- at least one Group II course
- at least one Group III course
- at least two Group IV courses, of which one must be ARCH 321 or 331 or 378

and all of

- ARCH 376 Quantitative Methods in Archaeology (5)
- ARCH 498 Honors Reading (5)

ARCH 499 Honors Thesis (5)

Recommended Courses

The following courses are recommended.

- BISC 102 (recommended for majors and honours where a focus will be in biological anthropology courses)
- GEOG 111 (recommended for majors and honours where a focus will be in environmental archaeology courses)
- SA 101 (recommended for majors, honours and students intending to go on to post-graduate work in archaeology)
- STAT 101, 201 or 203 (prerequisite for ARCH 376)

Writing, Quantitative, and Breadth Requirements

Students admitted to Simon Fraser University beginning in the fall 2006 term must meet writing, quantitative and breadth requirements as part of any degree program they may undertake. See Writing, Quantitative, and Breadth Requirements for university-wide information.

WQB Graduation Requirements			
A grade of C- or better is required to earn W, Q or B credit.			
Requirement	Units	Notes	
W - Writing	6	Must include at least one upper division course, taken at Simon Fraser University within the student's major subject	
Q - Quantitative	6	Q courses may be lower or upper division	
B - Breadth	18	Designated Breadth	Must be outside the student's major subject, and may be lower or upper division 6 units Social Sciences: B-Soc 6 units Humanities: B-Hum 6 units Sciences: B-Sci
	6	Additional Breadth	6 units outside the student's major subject (may or may not be B-designated courses, and will likely help fulfil individual degree program requirements) Additional breadth units must be from outside the student's major and may be B-designated (B-Hum, B-Soc, B-Sci courses). Students choosing to complete a joint major, joint honors, double major, two extended minors, an extended minor and a minor, or two minors may satisfy the breadth requirements (designated or not designated) with courses completed in either one or both program areas.

Residency Requirements and Transfer Credit

The University's residency requirement stipulates that, in most cases, total transfer and course challenge credit may not exceed 60 units, and may not include more than 15 units as upper division work.

Elective Courses

In addition to the courses listed above, students should consult an academic advisor to plan the remaining required elective courses.

4. Archaeology Extended Minor Program

*Department of Archaeology | Faculty of Environment
Simon Fraser University Calendar 2012 Summer*

This program consists of the lower division requirements for an archaeology major and the upper division requirements for an archaeology minor (see below). Programs must be approved by the department advisor.

Program Requirements

Lower Division Requirements

Students complete a total of 12 units, including all of

- ARCH 131 Human Origins (3)
- ARCH 201 Introduction to Archaeology (3)
- ARCH 272 Archaeology of the Old World (3)
- ARCH 273 Archaeology of the New World (3)

and two of

- EVSC 100 Introduction to Environmental Science (3)
- BISC 102 General Biology (4)
- FNST 101 The Cultures, Languages and Origins of Canada's First Peoples (3)
- GEOG 111 Earth Systems (3)
- GEOG 255 Geographical Information Science I (3)
- REM 100 Global Change (3)
- SA 101 Introduction to Anthropology (A) (4)

Upper Division Requirements

Students complete a total of at least 16 units of archaeology, which must include one course from each of groups I, II, III and IV listed below.

Course Groupings

Upper division archaeology courses are divided into the following groups.

Group I – Core Courses

- ARCH 372 Material Culture Analysis (5)
- ARCH 471 Archaeological Theory (W) (5)

Group II – Environmental Archaeology Courses

- ARCH 329 Special Topics in Environmental Archaeology (3)
- ARCH 340 Zooarchaeology (5)
- ARCH 365 Ecological Archaeology (3)
- ARCH 375 From Soup to Nuts: The Archaeology of Food (3)
- ARCH 383 Molecular Bioarchaeology (3)
- ARCH 386 Archaeological Resource Management (3)
- ARCH 390 Archaeobotany (5)
- ARCH 438 Geoarchaeology (5)

Group III – Biological Anthropology Courses

- ARCH 322 Special Topics in Biological Anthropology (3)
- ARCH 344 Primate Behaviour (3)
- ARCH 373 Human Osteology (5)
- ARCH 385 Paleoanthropology (5)
- ARCH 432 Advanced Physical Anthropology (5)
- ARCH 442 Forensic Anthropology (5)
- ARCH 452 Introduction to Paleopathology (5)

Group IV – Topical Courses

- ARCH 301 Ancient Visual Art (3)
- ARCH 321 Select Regions in World Archaeology I (3)
- ARCH 331 Select Regions in World Archaeology II (3)
- ARCH 332 Special Topics in Archaeology I (3)
- ARCH 333 Special Topics in Archaeology II (3)
- ARCH 335 Special Laboratory Topics in Archaeology (5)
- ARCH 348 Archaeological Conservation (5)
- ARCH 349 Management of Archaeological Collections (5)
- ARCH 376 Quantitative Methods in Archaeology (5)
- ARCH 377 Historical Archaeology (5)
- ARCH 378 Pacific Northwest North America (3)
- ARCH 434 Archaeological Field Methods (3)
- ARCH 485 Lithic Technology (5)

Writing, Quantitative, and Breadth Requirements

Students admitted to Simon Fraser University beginning in the fall 2006 term must meet writing, quantitative and breadth requirements as part of any degree program they may undertake. See Writing, Quantitative, and Breadth Requirements for university-wide information.

WQB Graduation Requirements			
A grade of C- or better is required to earn W, Q or B credit.			
Requirement	Units	Notes	
W - Writing	6	Must include at least one upper division course, taken at Simon Fraser University within the student's major subject	
Q - Quantitative	6	Q courses may be lower or upper division	
B - Breadth	18	Designated Breadth	Must be outside the student's major subject, and may be lower or upper division 6 units Social Sciences: B-Soc 6 units Humanities: B-Hum 6 units Sciences: B-Sci
	6	Additional Breadth	6 units outside the student's major subject (may or may not be B-designated courses, and will likely help fulfil individual degree program requirements) Additional breadth units must be from outside the student's major and may be B-designated (B-Hum, B-Soc, B-Sci courses). Students choosing to complete a joint major, joint honors, double major, two extended minors, an extended minor and a minor, or two minors may satisfy the breadth requirements (designated or not designated) with courses completed in either one or both program areas.



FACULTY OF ENVIRONMENT

Dan Burns

Manager Curriculum and Academic Planning

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FENV12-07

SCUS 12-27b

April 3, 2012

Duncan Knowler
Chair, FENV Curriculum Committee
Faculty of Environment
Simon Fraser University

Dear Duncan,

Please find enclosed a proposed change to the calendar entry for the Certificate in Environmental Literacy to add the following courses to the groups indicated:

- CMNS 349-4 Environment, Media and Communication (Environmental Management, Group C)
- ENV 319-3 Environmental Law (Environmental Management, Group C)
- ENV 320W-3 Ethics and the Environment (Social and Historical, Group A)

In development on the CEL these new courses were identified as appropriate but were not yet approved by Senate and therefore could not be included in the CEL proposal. Senate has now approved all three courses.

Please include these proposed changes in the agenda for the upcoming Faculty of Environment Curriculum Committee meeting scheduled for April 12, 2012

Thank you,

Dan

TO:

Certificate in Environmental Literacy

Faculty of Environment, Simon Fraser University Calendar 2012 Fall

The CEL addresses the need for undergraduate students from a broad range of disciplines to have a basic understanding of the complexity and interdisciplinarity of environmental issues. It seeks to introduce students to physical, ecological, and social perspectives on the environment, with emphasis on the functioning of physical and ecological systems and how human activities have affected and are affected by such systems over time. Typically, the CEL will also provide students with knowledge of environmental issues as they pertain to their own field of study.

The CEL will require students to complete a total of 21 units, comprised of 12 lower division units and a minimum of 9 lower and/or upper division units depending upon electives taken. These requirements include three introductory environmental courses (one physical, one ecological and one social science); one course introducing students to the complexity and interdisciplinarity of the environment issues; and a minimum of 9 units of electives chosen from one of the three elective groups.

Earned units may be applied the student's major or minor programs, and to a bachelor's degree. However, units earned in the certificate cannot be applied to another Simon Fraser University certificate or diploma.

Students in the following environmental specialty programs will be ineligible to receive the CEL:

- Environmental Science major (B.Sc.)
- Geography and Economics – environmental specialty major (B.A.)
- Geography - environmental specialty major (B.A.)
- Geography - environmental specialty honours (B.A.)

Program Requirements

Students complete at least 21 units, of which 12 units are required core courses and the remaining nine units are selected from the one of the electives groups.

Students are responsible for meeting the prerequisite requirements for courses used toward the certificate.

Core Courses

Students complete a minimum of 21 units, including all of

BISC 204-3 Introduction to Ecology *or* GEOG 215-3 Biogeography
ENV 222-3 Environmental Controversy: : an interdisciplinary study of environmental issues
GEOG 102-3 World Problems in Geographic Perspective *or* REM 100-3 Global Change
GEOG 111-3 Earth Systems

Elective Groups

Students complete a minimum of 9 units from **one** of the groups of electives

Social and Historical (Group A)

ARCH 329-3 - Special Topics in Environmental Archaeology

ARCH 340-5 Zooarchaeology

ARCH 365-3 Ecological Archaeology

ARCH 386-3 Archaeological Resource Management

ARCH 390-5 Archaeobotany

ENV 320W-3 Ethics and the Environment

FNST 212-3 Indigenous Perceptions of Landscape

FNST 332-3 Ethnobotany of British Columbia First Nations

FNST 403-3 Indigenous Knowledge in the Modern World

FNST 433-4 Indigenous Environmental Activism

GEOG 322-4 World Resources

GEOG 362-4 Geography of Urban Built Environments

GEOG 377-4 Environmental History

GEOG 385-4 Agriculture and the Environment

GEOG 389W-4 Nature and Society

HIST 377-4 Environmental History

HSCI 216-3 Ecological Determinants of Human Growth, Development and Health

HSCI 304-3 Perspectives on Environmental Health

HSCI 309-3 Health and the Built Environment

HUM 325-4 The Humanities and the Natural World

PHIL 328-3 Environmental Ethics

SA 326-4 Ecology and Social Thought

SA 371-4 The Environment and Society

Natural Science (Group B)

BISC 304-3 Animal Ecology

BISC 309-3 Conservation Biology

BISC 313-3 Environmental Toxicology

CHEM 191-3 Living in a Materials World: From the Stone Age to Nanoscience

CHEM 192-3 Chemistry in Your Home, Work, and Environment

CHEM 317-2 Analytical Environmental Chemistry

CHEM 371-3 Chemistry of the Aqueous Environment

CHEM 372-3 Chemistry of the Atmospheric Environment

EASC 104-3 Geohazards - Earth in Turmoil

EASC 107-3 Economic Geological Resources

EASC 303W-3 Environmental Geoscience

EASC 304-3 Hydrogeology

EASC 314-3 Principles of Glaciology

EVSC 100-3 Introduction to Environmental Science

GEOG 213-3 Introduction to Geomorphology

GEOG 214-3 Climate and Environment

GEOG 311-4 Hydrology

GEOG 312-4 Geography of Natural Hazards
GEOG 313-4 River Geomorphology
GEOG 314-4 Weather and Climate
GEOG 315-4 World Ecosystems
GEOG 316-4 Global Biogeochemistry and Water Cycles
GEOG 318-4 Soils in Our Environment
PHYS 346-3 Energy and the Environment

Environmental Management (Group C)

BUS 453-3 Sustainable Innovation
BUS 489-3 Management Practices for Sustainability
CMNS 349-4 Environment, Media and Communication
DEVS 201-3 Introduction to Development and Sustainability
DEVS 401-4 Issues Concepts and Cases in Development and Sustainability
ECON 260-3 Environmental Economics
ECON 362-4 Economics of Natural Resources
ECON 460-3 Seminar in Environmental Economics
ENV 319-3 Environmental Law
ENV 321-3 Ecological Economics
GEOG 322-4 World Resources
GEOG 385-4 Agriculture and the Environment
POL 452W-4 Energy Policy
REM 201-3 Introduction to Sustainable Community Development
REM 301-4 Sustainable Community Development Theory and Practice
REM 321-3 Ecological Economics
REM 356-3 Institutional Arrangements for Sustainable Environmental Management
REM 445-3 Environmental Risk Assessment
REM 471-3 Forest Ecosystem Management
SCD 201-3 Introduction to Sustainable Community Development
SCD 301-4 Sustainable Community Development Theory and Practice



FEN 12-08

DEPARTMENT OF GEOGRAPHY

SCUS 12-27c

MEMORANDUM

Department of Geography
Simon Fraser University

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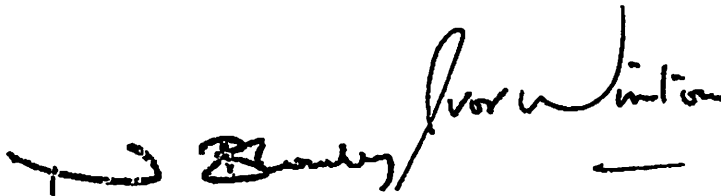
TO:	Dr. Duncan Knowler Chair FE Curriculum Committee
FROM:	Dr. Ivor Winton, Chair USCC, Geography
SUBJECT:	UNDERGRADUATE CURRICULUM CHANGES Spring 2013 CALENDAR
DATE:	March 28, 2012

Enclosed please find proposed changes for Geography in the Spring 2013 Calendar, approved by our Undergraduate Studies Curriculum Committee and by the Department of Geography on its general departmental meeting of March 15 2012.

Please bring attached proposed calendar changes to the Faculty of Environment Curriculum Committee for approval.

New Courses:

- GEOG 319-4 Landscape Ecology
- GEOG 321-4 Geographies of Global Capitalism
- GEOG 421-4 Geographical Political Economy
- GEOG 424-4 Cities, Transportation, Infrastructure





COURSE SUBJECT/NUMBER GEOG 319-4

COURSE TITLE

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

Landscape Ecology

AND

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

Landscape Ecology

CAMPUS where course will be taught: ☒ Burnaby ☐ Surrey ☐ Vancouver ☐ Great Northern Way ☐ Off campus

COURSE DESCRIPTION (FOR CALENDAR). 50-60 WORDS MAXIMUM. ATTACH A COURSE OUTLINE TO THIS PROPOSAL.

Surveys major concepts of landscape ecology, with a focus on disturbance dynamics (fire, insects) in terrestrial ecosystems. Emphasis given to the interaction of ecological process and pattern and to how landscape structure affects the abundance and distribution of organisms.

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 a library report and, if appropriate, confirmation that funding arrangements have been addressed.

Library report status Pending

RATIONALE FOR INTRODUCTION OF THIS COURSE

Course to be part of teaching responsibilities of new faculty member, Meg Krawchuk.

SCHEDULING AND ENROLLMENT INFORMATION

Indicate effective **term and year** course would first be offered and planned **frequency** of offering thereafter:

Fall 2013; annually thereafter

Will this be a required or elective course in the curriculum? ☐ Required ☒ Elective

What is the probable enrollment when offered? Estimate: 36-48

CREDITS

Indicate number of credits (units): 4

Indicate number of hours for: ☒ Lecture ☐ Seminar ☐ Tutorial ☒ Lab ☐ Other



FACULTY Which of your present CFL faculty have the expertise to offer this course?
Krawchuk; Lesack

WQB DESIGNATION
(attach approval from Curriculum Office)

PREREQUISITE
Does this course replicate the content of a previously-approved course to such an extent that students should not receive credit for both courses?
If so, this should be **noted in the prerequisite**.

GEOG 215 or BISC 204
COREQUISITE

None
STUDENT LEARNING OUTCOMES

Upon satisfactory completion of the course students will be able to:

Students will be familiar with:

- ~ Fundamental theory of terrestrial landscape ecology, recognizing the role and outcomes of interactions between spatial patterns and ecological processes;
- ~ The role of landscape-level biophysical disturbance processes such as fire and insect outbreaks; and how these affect and are affected by ecosystem structure and function;
- ~ Applications of theory of landscape ecology to pure and applied scientific domains;
- ~ Landscape ecology's role in resource management/conservation science/reclamation/planning;
- ~ Analytic tools relevant to asking spatially explicit questions about ecological process & pattern.

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

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

OTHER IMPLICATIONS

Articulation agreement reviewed? ☐ YES ☒ NO ☐ Not applicable
Exam required: ☒ YES ☐ NO
Criminal Record Check required: ☐ YES ☒ NO



SENATE COMMITTEE ON
UNDERGRADUATE STUDIES

NEW COURSE PROPOSAL
3 OF 3 PAGES

APPROVALS

- 1 Departmental approval indicates that the Department or School has approved the content of the course, and has consulted with other Departments/Schools/Faculties regarding proposed course content and overlap issues.

Chair, Department/School

Date

Chair, Faculty Curriculum Committee

Date

- 2 Faculty approval indicates that all the necessary course content and overlap concerns have been resolved, and that the Faculty/School/Department commits to providing the required Library funds.

Dean or designate

Date

LIST which other Departments, Schools and Faculties have been consulted regarding the proposed course content, including overlap issues. Attach documentary evidence of responses.

- All Faculties.
~~Report~~

Other Faculties approval indicated that the Dean(s) or Designate of other Faculties AFFECTED by the proposed new course support(s) the approval of the new course:

Date

Date

- 3 SCUS approval indicates that the course has been approved for implementation subject, where appropriate, to financial issues being addressed.

COURSE APPROVED BY SCUS (Chair of SCUS):

Date

APPROVAL IS SIGNIFIED BY DATE AND APPROPRIATE SIGNATURE.

JANUARY 2012

GEOG 319: Landscape Ecology

Instructor: Meg A. Krawchuk

Calendar description: Surveys major concepts of landscape ecology, with a focus on disturbance dynamics (fire, insects) in terrestrial ecosystems. Emphasis given to the interaction of ecological process and pattern and to how landscape structure affects the abundance and distribution of organisms. Prerequisite: GEOG 215 or BISC 204.

Overview: Ecology is the scientific study of the interactions between organisms and their environment. Landscape ecology is a sub-discipline of ecology that examines how the structure of landscapes affects processes that determine the abundance and distribution of organisms. It falls in an interesting middle ground between local-scaled population or community ecology and broad-scaled biogeography. In this middle ground exciting ecological processes unfold and many land-use planning decisions are made.

In this course we will examine basic principles of how interactions between spatial pattern and ecological process result in the heterogeneous landscapes we observe in natural and human-dominated systems. As a central theme, we will focus on the impact of landscape-level terrestrial disturbances such as wildfires and insect outbreaks ecosystem structure and function. We will address current research topics in terrestrial landscape ecology as they apply to forestry, agriculture, resource management, and conservation science, and learn to use some of the quantitative techniques valuable in asking landscape questions. Traditional tools of the trade include GIS, simulation modeling, dendroecology, natural history, and remote sensing.

The goals of this course are to examine the framework of theory, research, analytic tools and management that arise from the principles of landscape ecology. The course is intended for mid- and upper-level undergraduates in geography, ecology, environmental sciences, conservation biology, and natural resources.

Major topics:

1. What is landscape ecology?	7. Meta-population dynamics
2. Scale and hierarchy	8. Historical ecology
3. Causes of pattern	9. Disturbance & equilibrium, flux,
4. Quantifying pattern	patch dynamics
5. GIS and remote sensing	10. Landscape models
6. Populations and landscape structure	11. Landscapes and conservation science

Course format: 2 hours lecture + 2 hours lab per week.

Evaluation:

- Group lab exercises and presentations (30%)
- Two exams (2 x 25%)
- Participation in class discussions (20%)

Texts:

Required: Turner, M. et al. 2001. Landscape ecology in theory and practice: pattern and process. Springer-Verlag. [= LE in table below]

Recommended: Wiens, J.A. et al. 2006. Foundation papers in landscape ecology. Columbia Press.

Lectures and associated readings:

Week	Topic	Readings	Lab topic
1.	Course introduction; introduction to landscape ecology	LE chapter 1, pp. 1-10; Turner (2005); Fahrig et al (2011)	
2.	Scale and hierarchy	LE chapter 2; Wiens (1989)	Field data
3.	Agents of pattern: physical template & biotic processes	LE chapter 4; Krawchuk & Taylor (2003); Swanson et al (1988)	Species metrics
4.	Agents of pattern: disturbances	LE chapter 7; Turner (2010)	Fire modeling; Burn P3
5.	Landscape metrics	LE chapter 5; McGarigal (2009)	Fragstats
6.	Exam		
7.	Metapopulation dynamics	LE chapter 8; With & King (2001)	Spatial simulations
8.	Paleo-landscapes	Lynch et al (2004); Wallenius (2011)	Dendroecology I
9.	Range of variability concepts	Hunter (1993)	Dendroecology II
10.	Landscape dynamic concepts	LE chapter 9; Romme et al. (1995)	CONSERV I
11.	Landscape disturbance-succession models	LE chapter 3, 6; Scheller & Mladenoff (2007)	CONSERV II
12.	Landscape conservation science	LE chapter 10, 11; Lindenmayer & Hunter (2010)	Presentations
13.	Presentations		

Associated readings:

Turner, M. G. 2005. Landscape ecology: what is the state of the science? *Annual Review of Ecology, Evolution and Systematics*.

Fahrig, L., Baudry, J., Brotons, L. et al. 2011. Functional landscape heterogeneity and animal biodiversity in agricultural landscapes. *Ecology Letters* 14:101-112.

Wiens, J.A. 1989. Spatial scaling in ecology. *Functional Ecology* 3:385-397

Krawchuk, M.A. and Taylor, P.D. 2003. Changing importance of habitat structure across multiple spatial scales for three species of insects. *Oikos* 103:153-161.

Swanson, F.J., Kratz, T.K., Caine, N., and Woodmansee, R.G. 1998. Landform effects on ecosystem patterns and processes. *BioScience* 38:92-98.

Turner, M.G. 2010. Disturbance and landscape dynamics in a changing world. *Ecology* 91:2833-2849.

McGarigal, K., Tagil, S., and Cushman, S.A. 2009. Surface metrics: an alternative to patch metrics for the quantification of landscape structure. *Landscape Ecology* 24:433-450

With, K.A., and King, A.W. 2001. Analysis of landscape sources and sinks: the effect of spatial pattern on avian demography. *Biological Conservation* 100:75-88.

Lynch, J.A., Hollis, J.L., and Hu, F.S. 2004. Climatic and landscape controls of the boreal forest fire regime: Holocene records from Alaska. *Journal of Ecology* 92:477-489.

Wallenius, T.H., Pennanen, J., and Burton, P.J. 2011. Long-term decreasing trend in forest fires in northwestern Canada. *Ecosphere* 2:53

Hunter, M.L. 1993. Natural fire regimes as spatial models for managing boreal forests. *Biological Conservation* 65:115-120.

Romme, W.H., Turner, M.G., Wallace, L.L., and Walker, J.S. 1995. Aspen, elk, and fire in northern Yellowstone Park. *Ecology* 76:2097-2106

Scheller, R.M., and Mladenoff, D.J. 2007. An ecological classification of forest landscape simulation models: tools and strategies for understanding broad-scale forested ecosystems. *Landscape Ecology* 22:491-505.

Lindenmayer, D., and Hunter, M. 2010. Some guiding concepts for conservation biology. *Conservation Biology* 24:1459-1468.

Additional readings from such journals as: Landscape Ecology, Ecology, Biogeography, Ecology Letters, Progress in Physical Geography, Journal of Biogeography, International Journal of Wildland Fire, Conservation Biology, Biological Conservation, Nature, Science, and Oikos



SENATE COMMITTEE ON
UNDERGRADUATE STUDIES

NEW COURSE PROPOSAL
I OF 3 PAGES

COURSE SUBJECT/NUMBER GEOG 321-4

COURSE TITLE

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

Geographies of Global Capitalism

AND

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

Global Capitalism

CAMPUS where course will be taught: ☒ Burnaby ☐ Surrey ☐ Vancouver ☐ Great Northern Way ☐ Off campus

COURSE DESCRIPTION (FOR CALENDAR). 50-60 WORDS MAXIMUM. ATTACH A COURSE OUTLINE TO THIS PROPOSAL.

Examines the historical development, spatial organization, and social impact of market function, firm structure and operation, economic policy, and regulation and deregulation at various scales from local to global, from a geographical perspective.

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 a library report and, if appropriate, confirmation that funding arrangements have been addressed.

Library report status Pending

RATIONALE FOR INTRODUCTION OF THIS COURSE

This course will build directly on GEOG 221, Economic Geography, and is intended to provide a second step in the department's recalibrated economic geography trajectory.

SCHEDULING AND ENROLLMENT INFORMATION

Indicate effective **term and year** course would first be offered and planned **frequency** of offering thereafter:

Spring 2013; annually thereafter

Will this be a required or elective course in the curriculum? ☐ Required ☒ Elective

What is the probable enrollment when offered? Estimate: 54-72

CREDITS

Indicate number of credits (units): 4

Indicate number of hours for: ☒ 2 Lecture ☐ Seminar ☒ 2 Tutorial ☐ Lab ☐ Other



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

Mann; Hayter; Holden; Clapp

WQB DESIGNATION

(attach approval from Curriculum Office)

PREREQUISITE

Does this course replicate the content of a previously-approved course to such an extent that students should not receive credit for both courses?
If so, this should be **noted in the prerequisite**.

GEOG 221. Students who received credit for GEOG 321 (STT), Contemporary Capitalism, in Sprin 

COREQUISITE

None

STUDENT LEARNING OUTCOMES

Upon satisfactory completion of the course students will be able to:

Students will have a sound understanding of the principal political economic theories of modern capitalist economies as well as a detailed familiarity with the institutional structures of modern industrial economies, the ways in which these function, and their geography, i.e., their differential impact from place to place in Canada and other parts of the world. They will also gain understanding of the basic historical economic geography of North America, from the Depression to the present.

FEES

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

RESOURCES

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

OTHER IMPLICATIONS

Articulation agreement reviewed? ☐ YES ☐ NO ☒ Not applicable

Exam required: ☐ YES ☒ NO

Criminal Record Check required: ☐ YES ☐ NO



SENATE COMMITTEE ON
UNDERGRADUATE STUDIES

NEW COURSE PROPOSAL
3 OF 3 PAGES

APPROVALS

- 1 Departmental approval indicates that the Department or School has approved the content of the course, and has consulted with other Departments/Schools/Faculties regarding proposed course content and overlap issues.

[Signature] _____ Date _____
Chair, Department/School

Chair, Faculty Curriculum Committee Date _____

- 2 Faculty approval indicates that all the necessary course content and overlap concerns have been resolved, and that the Faculty/School/Department commits to providing the required Library funds.

[Signature] _____ Date Apr 23, 2012
Dean or designate

LIST which other Departments, Schools and Faculties have been consulted regarding the proposed course content, including overlap issues. Attach documentary evidence of responses.

- All Faculties.
- response to FSSS attached.

Other Faculties approval indicated that the Dean(s) or Designate of other Faculties AFFECTED by the proposed new course support(s) the approval of the new course:

Date _____

Date _____

- 3 SCUS approval indicates that the course has been approved for implementation subject, where appropriate, to financial issues being addressed.

COURSE APPROVED BY SCUS (Chair of SCUS):

Date _____

APPROVAL IS SIGNIFIED BY DATE AND APPROPRIATE SIGNATURE.

GEOGRAPHIES OF GLOBAL CAPITALISM
Geography 321

This course examines the geography of capitalism. It focuses on the spatial and social impacts of market function, firm structure and operation, economic policy, and regulation and deregulation at various scales from the local to the global. The course has two emphases: (1) an introduction to the dominant theories through which capitalism has been explained, defended, and criticized; and (2) the effects of capitalist historical development on material spaces and places.

The principal objective is to develop an understanding of how capitalism, as a distinct way in which to organize the political economy of modern life, influences the geography of that modern life. We will consider:

- (a) the spaces it structures (international trading networks, for example) and restructures (suburbanization on formerly agricultural land, for example);
- (b) the effect of dynamics flows of capital, good, and people, on specific places like 'world cities' and 'dying small towns'; and
- (c) the many scales capitalist dynamics help produce, and on which they depend, like the nation-state, the 'global economy', and resource 'peripheries'.

Prerequisite: Geography 221, Economic Geography

Materials

- (1) G. Ingham, Capitalism. Polity, 2008.
- (2) A. Glyn, Capitalism Unleashed. Oxford, 2006.

Evaluation

Short paper	20%
Major paper	40%
Tutorial	20%
Quizzes (2)	10%
In class writing	<u>10%</u>
	100%

COURSE OUTLINE

Introduction

Introductory lecture & admin/organizational stuff.

The basic concepts

Ingham, pp. 1-62 (Intro & chapters 1-3).

What is money?

Ingham, pp. 65-91 (chapter 4).

Why firms?

Ingham, pp. 92-146 (chapters 5-6).

Where is finance 'located'?

Ingham, pp. 147-174 (chapter 7).

The state: what exactly does it do?

Ingham, pp. 175-226 (chapter 8 & Conclusion).

The rise of finance, the fall of industry?

Glyn, pp. 50-76 (chapter 3).

Globalization

Glyn, pp. 1-49 (chapters 1-2).

'Neoliberalism'

Glyn, pp. 77-103, 128-155 (chapters 4 & 6).

Labour

Glyn, pp. 104-128, 156-183 (chapters 5 & 7)

The business cycle

Wade, 'The first-world debt crisis of 2007-2010'.*

Final class

LONG PAPERS DUE AT BEGINNING OF CLASS

On-line Reading (required)

* Wade, R. 2008. 'The first-world debt crisis of 2007-2010 in global perspective', Challenge 51(4), 23-54 [via Library's e-journals].

EXPECTATIONS

1. Reading All readings are required. Approximately 50 pages each week; must be read before class.

2. Writing Everyone will be writing two papers, one 'short' interview (750-900 words) and one 'longer' research paper (2500 words). Your work will be evaluated on (a) how well the paper is put together (grammatically and structurally); (b) how well-researched it is; and (c) how compelling and clear your account is. Everyone will also be completing shorter written pieces, in class/tutorial or over email.

3. Talking and Listening If you are talkative, that is great, we only ask you to be aware if you start to dominate. If you are the "quiet type", you will have to try to overcome it in tutorial. In a tutorial there is no difference between someone who does not do the reading and someone who reads but does not participate.

4. Quizzes There are 2 quizzes (5-10 minutes long) during the course of the semester. The quizzes are not scheduled. One will be given before the Olympic break, the other after it. Quizzes are based on the reading for that day, and on the lecture material from the class immediately preceding it (i.e. from the week prior).

There are no make-up quizzes, no exceptions (but for documented medical emergencies). If you are not there, that is your call, but there will not be an opportunity to make up the 5% each quiz contributes to your grade.

Plagiarism

Plagiarism of any sort will result in a grade of 0 (zero) on the assignment; further disciplinary action is possible. **It is your responsibility as participants in university life to know what plagiarism is, and never to plagiarize.** If you have any questions, we are happy to help figure out how to credit others' ideas appropriately. If you are unfamiliar with the regulations, the SFU library website does a great job of explaining what plagiarism is, how to make sure you don't do it, and links to SFU policies:

<<http://www.lib.sfu.ca/researchhelp/writing/plagiarism.htm>>.



SENATE COMMITTEE ON
UNDERGRADUATE STUDIES

NEW COURSE PROPOSAL
1 OF 3 PAGES

COURSE SUBJECT/NUMBER GEOG 421-4

COURSE TITLE

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

Geographical Political Economy

AND

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

Geographical Political Economy

CAMPUS where course will be taught: ☒ Burnaby ☐ Surrey ☐ Vancouver ☐ Great Northern Way ☐ Off campus

COURSE DESCRIPTION (FOR CALENDAR). 50-60 WORDS MAXIMUM. ATTACH A COURSE OUTLINE TO THIS PROPOSAL.

Examines the historical development of the material spaces and places affected by changing capitalist dynamics and the dominant theories through which they are explained, legitimized, and criticized, from a geographical perspective.

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 a library report and, if appropriate, confirmation that funding arrangements have been addressed.

Library report status **Pending**

RATIONALE FOR INTRODUCTION OF THIS COURSE

This course builds directly on GEOG 321 [proposed], Geographies of Global Capitalism, and is intended to provide a capstone offering in the department's economic geography trajectory. It will allow students to confront the principal theories and methods involved in the specifically geographic approach to political economy that has developed over the last forty years.

SCHEDULING AND ENROLLMENT INFORMATION

Indicate effective **term and year** course would first be offered and planned **frequency** of offering thereafter:

Fall 2013; biennially thereafter

Will this be a required or elective course in the curriculum? ☐ Required ☒ Elective

What is the probable enrollment when offered? Estimate: **15-18**

CREDITS

Indicate number of credits (units): **4**

Indicate number of hours for: Lecture Seminar Tutorial Lab Other



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

Mann; Hayter; Holden; Clapp

WQB DESIGNATION

(attach approval from Curriculum Office)

PREREQUISITE

Does this course replicate the content of a previously-approved course to such an extent that students should not receive credit for both courses?
If so, this should be **noted in the prerequisite**.

GEOG 321. Students who received credit for GEOG 421 (STT), Advanced Contemporary Capitalis

COREQUISITE

None

STUDENT LEARNING OUTCOMES

Upon satisfactory completion of the course students will be able to:

Upon satisfactory completion of this course, students will have a detailed understanding of the theoretical evolution of modern political economy and its geographic implications (i.e., its spatial and scalar concerns and effects). They will also become familiar with both the mechanisms and the processes of macroeconomic policy making in modern industrial economies, as these operate at both the domestic and international scales.

FEES

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

RESOURCES

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

OTHER IMPLICATIONS

Articulation agreement reviewed? ☐ YES ☐ NO ☒ Not applicable

Exam required: ☐ YES ☒ NO

Criminal Record Check required: ☐ YES ☐ NO



APPROVALS

- 1 Departmental approval indicates that the Department or School has approved the content of the course, and has consulted with other Departments/Schools/Faculties regarding proposed course content and overlap issues.

[Signature] _____ Date _____
Chair, Department/School

Chair, Faculty Curriculum Committee Date _____

- 2 Faculty approval indicates that all the necessary course content and overlap concerns have been resolved, and that the Faculty/School/Department commits to providing the required Library funds.

[Signature] _____ Date Apr. 23, 2012
Dean or designate

LIST which other Departments, Schools and Faculties have been consulted regarding the proposed course content, including overlap issues. Attach documentary evidence of responses.

- All Faculties.
- response to FASS attached.

Other Faculties approval indicated that the Dean(s) or Designate of other Faculties AFFECTED by the proposed new course support(s) the approval of the new course:

Date _____

Date _____

- 3 SCUS approval indicates that the course has been approved for implementation subject, where appropriate, to financial issues being addressed.

COURSE APPROVED BY SCUS (Chair of SCUS):

Date _____

APPROVAL IS SIGNIFIED BY DATE AND APPROPRIATE SIGNATURE.

GEOGRAPHICAL POLITICAL ECONOMY
Geography 421

Political economy is among the most powerful and most common approaches to both human geography and economic geography specifically. In fact, as the most influential summary of the field of economic geography put it in 2000, 'political economy is how economic geography is now done'. This course offers an advanced consideration of the burgeoning field of geographical political economy, from its origins in the classical political economy of the 18th and 19th centuries, through to the present. It focuses specifically on the approach to political economy that has developed across the discipline over the last 40 years, emphasizing (a) innovative theoretical work, and (b) empirical studies of the role of the state, firms, and workers. The discussion centres on the construction of both the spaces in which these actors operate, and the opportunities and constraints those spaces (and the connections between) present.

Geog 421 is an advanced seminar. Prerequisite: Geog 321 [proposed].

Materials

(1) Course reader; readings listed in outline below.

Evaluation

Short paper	20%
Major paper and presentation	50%
Seminar participation	20%
In class writing	<u>10%</u>
	100%

* * *

COURSE OUTLINE

Introduction & admin/organizational.

Geographical Political Economy?

1. *Sheppard, E. 2011. 'Geographical political economy', Journal of Economic Geography 11: 319-31.
2. Mann, G. 2012. 'Release the hounds! The fascinating case of political economy', in T. J. Barnes, J. Peck and E. Sheppard (eds.) The New Companion to Economic Geography. Oxford: Wiley-Blackwell.

Origins

1. Wolf, E. 1982. Europe and the People without History. Berkeley: University of California Press, pp. 265-309.
2. Wood, E. M. 1998. 'The agrarian origins of capitalism', Monthly Review 50(3): <http://www.monthlyreview.org/798wood.htm>

Classical Liberalism and Classical Political Economy I

1. Locke, J. Second Treatise on Civil Government. chs. 1-5.
2. Hume, D. Of Commerce. Available at <http://socserv2.socsci.mcmaster.ca/~econ/ugcm/3ll3/hume/commerce.hme>

Classical Liberalism and Classical Political Economy II

1. Smith, A. 2008 [1776]. Excerpts from The Wealth of Nations, in N. H. Barma and S. K. Vogel (eds.) The Political Economy Reader. London: Routledge, pp. 27-40.
2. Marx, K. 1977 [1867] Excerpts from Capital, vol. 1, in R. Tucker (ed.) The Marx-Engels Reader, 2nd ed. New York: Norton, pp. 302-336.
3. Schumpeter, Joseph A. 1942. Capitalism, Socialism and Democracy. New York: Harper & Row, pp. 81-6.

Keynes' General Theory and after

1. Ingham, G. 2004. The Nature of Money. London: Polity, chs. 1-3.
2. Keynes, J. M. 1965 [1936]. The General Theory of Employment, interest, and money. New York: Harcourt, Brace & World, ch. 16.

Stability and instability

1. Polanyi, K. 2008 [1944] Excerpts from The Great Transformation, in N. H. Barma and S. K. Vogel (eds.) The Political Economy Reader. London: Routledge, pp. 121-151.
2. Minsky, H. 1982. Can 'It' Happen Again? Armonk NY: M. E. Sharpe, pp. 90-116.
3. *Arrighi, G. & Silver, B. 2001. 'Capitalism and world (dis)order', Review of International Studies 27, 257-79.

'The battle of ideas'

1. Corbridge, S. 1994. 'Plausible worlds: Friedman, Keynes, and the geography of inflation', in S. Corbridge, S., N. Thrift, and R. Martin (eds.), Money, Power and Space. Oxford: Blackwell, pp. 63-90.
2. *Krippner, G. 2005. 'The financialization of the American economy', Socio-Economic Review 3, 173-208.
3. *Dore, R. 2008. 'Financialization of the global economy', Industrial and Corporate Change 17(6), 1097-1112.

The Geography of market governance

1. Williamson, O. 1975. Markets and Hierarchies. New York: Free Press, chs. 1 & 2.
2. Cowen, D. 2010. 'A geography of logistics: market authority and the security of supply chains', Annals of the Association of American Geographers 100(3): 1-21.

The geography of modern macroeconomic policy I: fiscal policy

First group of PRESENTATIONS

1. *Cameron, A. 2006. 'Turning point? The volatile geographies of taxation', Antipode 38(2), 236-58.
2. *Hamnett, C. 1997. 'A stroke of the Chancellor's pen: the social and regional impact of the Conservatives' higher rate tax cuts', Environment and Planning A 29, 129-47.
3. *Cameron, A. 2008. 'Crisis? What crisis? Displacing the spatial imaginary of the fiscal state', Geoforum 39(3), 1145-54.

* indicates articles available via SFU Library's e-journals.

The geography of modern macroeconomic policy II: monetary policy

Second group of PRESENTATIONS

1. *Mann, G. 2010. 'Hobbes' redoubt? Toward a geography of monetary policy', Progress in Human Geography 34(5), 601-25.
2. *Krippner, G. 2007. 'The making of US monetary policy: central bank transparency and the neoliberal dilemma', Theory and Society 36, 477-513.

The geography of neoliberalism: the state of the art?

Third group of PRESENTATIONS

1. *Peck, Jamie, and Tickell, Adam (2002) 'Neoliberalizing space', Antipode 34(3), 380-404.
2. Harvey, D. 2006. Spaces of Global Capitalism. Verso: 2006, pp. 9-68.

Final class

LONG PAPERS DUE AT BEGINNING OF CLASS

*** * ***

EXPECTATIONS

1. Reading All readings are required.

2. Writing Everyone will be writing two papers, one 'short' (750-1000 words) and one 'long' (3,000 - 3,500 words). Your work will be evaluated on (a) how well the paper is put together (grammatically and structurally); (b) how well-researched it is; and (c) how compelling and clear your account is. Everyone will also be completing shorter written pieces, in class/tutorial or over email.

3. Talking and Listening If you are talkative, that is great, we only ask you to be aware if you start to dominate. If you are the "quiet type", you will have to try to overcome it; in a seminar there is no difference between someone who does not do the reading and someone who reads but does not participate.

Plagiarism

Plagiarism of any sort will result in a grade of 0 (zero) on the assignment/exam. Further disciplinary action is possible. It is your responsibility as participants in university life to know what plagiarism is, and never to plagiarize. If unsure, ask how to credit others' ideas appropriately. The SFU library website does a great job of explaining what plagiarism is, how to make sure you don't do it, and links to SFU policies concerning academic dishonesty:
<<http://www.lib.sfu.ca/researchhelp/writing/plagiarism.htm>>.



COURSE SUBJECT/NUMBER GEOG 424-4

COURSE TITLE

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

Cities, Transport, Infrastructure

AND

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

Cities/Transprt/Infrastructure

CAMPUS where course will be taught: ☒ Burnaby ☐ Surrey ☒ Vancouver ☐ Great Northern Way ☐ Off campus

COURSE DESCRIPTION (FOR CALENDAR). 50-60 WORDS MAXIMUM. ATTACH A COURSE OUTLINE TO THIS PROPOSAL.

An exploration of the relationships between the development of cities, transportation, and infrastructure from an economic geography perspective. Greater Vancouver provides a location to explore, apply, and critique the theoretical perspectives presented in seminar.

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 a library report and, if appropriate, confirmation that funding arrangements have been addressed.

Library report status Pending

RATIONALE FOR INTRODUCTION OF THIS COURSE

Course to be part of teaching responsibilities of new faculty member Peter Hall.

SCHEDULING AND ENROLLMENT INFORMATION

Indicate effective **term and year** course would first be offered and planned **frequency** of offering thereafter:

Spring 2013; biennially thereafter

Will this be a required or elective course in the curriculum? ☐ Required ☒ Elective

What is the probable enrollment when offered? Estimate: 15-18

CREDITS

Indicate number of credits (units): 4

Indicate number of hours for: ☒ Lecture ☒ Seminar ☐ Tutorial ☐ Lab ☐ Other



FACULTY Which of your present CFL faculty have the expertise to offer this course?
Hall; Hayter

WQB DESIGNATION

(attach approval from Curriculum Office)

PREREQUISITE

Does this course replicate the content of a previously-approved course to such an extent that students should not receive credit for both courses?
If so, this should be **noted in the prerequisite**.

One of GEOG 323, 324, 362, or 363

COREQUISITE

None

STUDENT LEARNING OUTCOMES

Upon satisfactory completion of the course students will be able to:

Upon satisfactory completion of the course students will be able to critically analyze how city-regions and community life are fundamentally shaped by transportation and infrastructure systems. They will have read and discussed classic and contemporary scholarly literature on the relationships between the development of cities, transportation, and infrastructure from an economic geography perspective. Past and current transportation infrastructure developments in the Greater Vancouver will have provided a focus to explore, apply, and critique the theoretical perspectives presented in the course.

FEES

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

RESOURCES

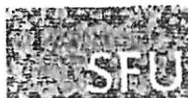
List any outstanding resource issues to be addressed prior to implementation: space, laboratory equipment, etc:

OTHER IMPLICATIONS

Articulation agreement reviewed? ☐ YES ☐ NO ☒ Not applicable

Exam required: ☐ YES ☒ NO

Criminal Record Check required: ☐ YES ☐ NO



SENATE COMMITTEE ON
UNDERGRADUATE STUDIES

NEW COURSE PROPOSAL
3 OF 3 PAGES

APPROVALS

- 1 Departmental approval indicates that the Department or School has approved the content of the course, and has consulted with other Departments/Schools/Faculties regarding proposed course content and overlap issues.

Chair, Department/School Date

Chair, Faculty Curriculum Committee Date

- 2 Faculty approval indicates that all the necessary course content and overlap concerns have been resolved, and that the Faculty/School/Department commits to providing the required Library funds.

Dean or designate Date Apr 23, 2012.

LIST which other Departments, Schools and Faculties have been consulted regarding the proposed course content, including overlap issues. Attach documentary evidence of responses.

Other: Faculties approval indicated that the Dean(s) or Designate of other Faculties AFFECTED by the proposed new course support(s) the approval of the new course:

Date _____

Date _____

- 3 SCUS approval indicates that the course has been approved for implementation subject, where appropriate, to financial issues being addressed.

COURSE APPROVED BY SCUS (Chair of SCUS):

Date _____

APPROVAL IS SIGNIFIED BY DATE AND APPROPRIATE SIGNATURE.

GEOG424 - CITIES, TRANSPORTATION, INFRASTRUCTURE

Calendar Description

An exploration of the relationships between the development of cities, transportation and infrastructure from an economic geography perspective. Greater Vancouver provides a location to explore, apply and critique the theoretical perspectives presented in seminar.

Prerequisite: GEOG 323 or GEOG 324 or GEOG 362 or GEOG 363.

Mandatory course fees: \$20

Course Outline Description

This seminar course explores the relationships between the development of cities, transportation and infrastructure from an economic geography perspective. City-regions and community life are fundamentally shaped by transportation and infrastructure systems. Greater Vancouver, created at the western terminus of the Canadian Pacific Railway, and now the site of significant gateway expansion provides a location to explore, apply and critique the theoretical perspectives presented in the course. The course will include a fieldtrip to locations in the Lower Mainland currently affected by Gateway activities and infrastructure expansion. Topics include trade, networks, flows and mobility, governance, community impacts, land use and economic development. Students are expected to participate actively in class, and to write a paper about some aspect of infrastructure or transportation development in an urban region.

Course Meetings: Class meets for 4 hours per week. Topics for each meeting, required reading and due dates for assignments are identified in the schedule below:

Week	Topic	Readings	Due
1	Introduction		
2	Cities, Trade and Development	Cronon, Innis, Vance, Vernon	
3	Cities, Flows and Mobility	Borja&Castells, Graham&Marvin, Herod, Urry	
4	Cities, Infrastructure and Place	Perry, Flyvberg et al, Altshuler&Luberoff	
5	Fieldtrip (Port Kells, SFPR, Tilbury Island, Deltaport, South Shore)		
6	The economics and work of flow	Levinson, Wang et al, Bonacich&Wilson,	Paper empirical report (10%)
7	From Waterfronts to Suburbs and beyond	Dovey, Desfor et al, Hein, Hesse	
8	Governing and planning flow	Brown, Desfor&Laidley Hall et al	
9	Group meetings and interviews		Book review (20%)
10	Which Gateway economy? Whose Gateway economy?	See web sources for weeks 10-12.	Group briefing document (10%)
11	Railways, Waterways, Highways and Land in the Livable Region		Group briefing document (10%)
12	Governing the Gateway: from local to federal and back		Group briefing document (10%)
13	Conclusion		Final paper (30%)

Student Evaluation

Class participation (10%)

Book review and seminar presentation (20%) – each student presents a book, and later submits a written book review. Other students read one or two chapters from the same book.

Gateway perspectives (group work: 3 x 10%) – groups of students prepare and present briefing documents from the perspective of Gateway stakeholders.

Paper – individual paper on the city-shaping role of infrastructure or transportation development.

Paper empirical report (10%)

Final Paper (30%)

Readings

Cronon, William. 1991. *Nature's metropolis: Chicago and the Great West* / New York: W. W. Norton.

Chapter 2: Rails and Water, pp55-93.

Innis, Harold Adams, (1923/1971) *A history of the Canadian Pacific Railway*. Toronto: University of Toronto Press.

Chapter 4: Expansion of the road and development of the freight traffic, pp129-171.

Vance, James E. 1970. *The merchant's world: the geography of wholesaling*. Englewood Cliffs, N.J.: Prentice-Hall.

Chapter 1: Introduction: wholesaling, the pioneer of space, pp1-14.

Vernon, R. 1960. *Metropolis 1985*. New York: Doubleday.

Chapter 4: Labor and Freight, pp38-67.

Borja, J. and Castells, M. 1997. *Local and Global: Management of Cities in the Information Age*. London: Earthscan.

Chapter 2: The Impact of Globalization on the Spatial and Social Structure of Cities, p16-44.

Stephen Graham and Simon Marvin, 2001 *Splintering urbanism: networked infrastructures, technological mobilities and the urban condition* / London ; New York: Routledge.

Chapter 5: The City as a Sociotechnical Process, pp178-216

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