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MEMORANDUM

ATTENTION	Senate	DATE	March 6, 2015
FROM	Gordon Myers, Chair	PAGES	1/2
RE:	Senate Committee on Undergraduate Studies Faculty of Environment (SCUS 15-09)		

For information:

Acting under delegated authority at its meeting of March 5, 2015 SCUS approved the following curriculum revisions effective Fall 2015.

1. Department of Archaeology (SCUS 15-09a)

- (i) Credit change for ARCH 201, 272W, 273, 285
- (ii) Credit and description change for ARCH 286
 - o B-Hum designation
- (iii) Credit change for ARCH 372
- (iv) Description and prerequisite change for ARCH 388 and 479
- (v) Credit, description and prerequisite change for ARCH 480
- (vi) Requirement changes for the Archaeology Honours Program
- (vii) Requirement changes to the Archaeology and First Nations Studies Joint Major program

2. Environment Program (SCUS 15-09b)

- (i) New Course Proposals:
 - ENV 302-3, Environmental Practicum I
 - ENV 303-3, Environment Practicum II
- (ii) Credit and description change to ENV 321
- (iii) New Course Proposals:
 - ENV 402-3, Environment Practicum III
 - ENV403-3, Environment Practicum IV
 - ENV 404-3, Environment Practicum V
- (iv) Requirement changes to the Environmental Literacy Certificate
- (v) W Designation for ENV 222

3. Department of Geography (SCUS 15-09c)

- (i) Description and prerequisite change for GEOG 251
- (ii) Lower Division requirement changes to the Physical Geography Major program
- (iii) WQB Designations for:
 - GEOG 213 – Q/B-Sci
 - GEOG 221 – B-Soc
 - GEOG 253 – B-Sci

4. School of Resource and Environmental Management (SCUS 15-09d)

- (i) Credit and description change for REM 321



faculty of environment

MEMO

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ATTENTION	Gordon Myers, Chair, SCUS
FROM	Alex Clapp, Associate Dean (Undergraduate),
RE	Faculty of Environment Curricular Proposals
DATE	February 16, 2015

The following were approved by the Faculty of Environment Undergraduate Curriculum Committee at its meeting of February 4th 2015 and are being forwarded to SCUS for approval.

- a. Archaeology Submissions (FENV 15-1)
 - i. ARCH 201 – Course Change (attached)
 - ii. ARCH 272W – Course Change (attached)
 - iii. ARCH 273 – Course Change (attached)
 - iv. ARCH 285 – Course Change (attached)
 - v. ARCH 286 – Course Change (attached)
 - vi. ARCH 372 – Course Change (attached)
 - vii. ARCH 388 – Course Change (attached)
 - viii. ARCH 479 – Course Change (attached)
 - ix. ARCH 480 – Course Change (attached)
 - x.
 - xi. Honors Program Changes (attached)
 - xii. Archaeology and First Nations Joint Major Program Changes (attached)
 - xiii. ARCH 286 B-Hum approval (attached)

- b. FENV Submissions (FENV 15-2)
 - i. ENV 302 (Co-Op) – New Course Proposal (attached)
 - ii. ENV 303 (Co-Op) – New Course Proposal (attached)
 - iii. ENV 321 – Course Change Proposal (cross-listed with REM 321 below)(attached)
 - iv. ENV 402 (Co-Op) – New Course Proposal (attached)
 - v. ENV 403 (Co-Op) – New Course Proposal (attached)
 - vi. ENV 404 (Co-Op) – New Course Proposal (attached)
 - vii. Certificate in Environmental Literacy Program Changes
 - viii. ENV 222 “W” application

- c. Geography Submissions (FENV 15-3)
 - i. GEOG 251 Course Change (attached)
 - ii. Physical Geography Major Program Changes (attached)
 - iii. GEOG 213, GEOG 221 and GEOG 253 WQB approval

- d. REM Submissions (FENV15-4)
 - i. REM 321 – Course Change Proposal (attached)

Please place these proposals on the agenda of the March 5th meeting of SCUS.

Thanks,

A handwritten signature in black ink that reads "Ray Clapp". The signature is written in a cursive style with a large, stylized "R" and "C".



**DEPARTMENT OF ARCHAEOLOGY
MEMORANDUM**

To: Alex Clapp, Undergraduate Curriculum Committee Chair, Faculty of Environment

From: Ross Jamieson, Undergraduate Curriculum Committee Chair, Archaeology

Re: Archaeology Undergraduate Program Changes (Effective Fall 2015)

Date: November 27, 2014

The following Archaeology undergraduate program changes are submitted to the Chair of the Faculty of Environment Undergraduate Curriculum Committee for consideration. These were approved by the ARCH UCC on Nov. 20th, 2014. Pending approval, the following changes will be effective Fall term 2015 (1157).

Calendar Changes

“To” and “From” content taken from the Spring 2015 calendar.

- ARCH Major, Honours, Minor, Extended Minor, ARCH/ANTH Joint Major, and ARCH/FNST Joint Major
 - Notation of change in credit hours to required lower division courses. Course change forms with rationale are included.
- ARCH Honours
 - Change to Admission and Minimum Grade Requirements. Before entry to the Honours program, students must have a minimum ARCH GPA of 3.33 and have completed ARCH 372, with a minimum grade of “B”. Rationale: Minimum standards for ARCH Honours raised to a B+ admission and B in core course ARCH 372 - Material Culture Analysis - to maintain program integrity and student success.
- ARCH/FNST Joint Major
 - Addition of minimum number of upper division units required. Approval from FNST is included. Rationale: Provides clarification for students in program.

Course Change Forms

- ARCH 201-3 Introduction to Archaeology (Revision: Credit)
- ARCH 272W-3 Archaeology of the Old World (Revision: Credit)
- ARCH 273-3 Archaeology of the New World (Revision: Credit)
- ARCH 285-3 Archaeological Science (Revision: Credit)
- ARCH 286-3 Cultural Heritage Stewardship (Revision: Credit; Description to include B-Hum)
- ARCH 372-5 Material Culture Analysis (Revision: Vector change to 3 hour lecture / 2 hour Lab)
- ARCH 388-5 Geoarchaeology (Revision: Description; Prerequisite)
- ARCH 479-3 Directed Readings (Revision: Description; Prerequisite)
- ARCH 480-5 Directed Laboratory/Library/Field Research (Revision: Credit; Description; Prerequisite)

Breadth Permanent Designation

The University Curriculum Office has approved Breadth-Humanities designation for ARCH 286 – Cultural Heritage Stewardship in Global Context. The certification approval is attached for permanent designation approval by SCUS.



EXISTING COURSE, CHANGES RECOMMENDED

Please check appropriate revision(s):

Course number Credit Title Description Prerequisite Course deletion Learning Outcomes

Indicate number of hours for: Lecture 4 Seminar _____ Tutorial _____ Lab _____

FROM Course Subject/Number ARCH 286 TO Course Subject/Number ARCH 286

Credits 3 Credits 4

TITLE

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

FROM: Cultural Heritage Stewardship in Global Context

TO:

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

FROM: Cultural Heritage Stewardship

TO:

DESCRIPTION

FROM: Examines cultural heritage stewardship as applied and practiced throughout the world including review of national laws and international conventions that govern the management of heritage resources. Explores stewardship as a fundamental professional ethic in archaeology and other heritage fields engaged in study, application, and management of sociocultural resources. Prerequisite: 30 units including one of ARCH 100, ARCH 201, GEOG 100 or REM 100.

DESCRIPTION

TO: Examines cultural heritage stewardship as applied and practiced throughout the world including review of national laws and international conventions that govern the management of heritage resources. Explores stewardship as a fundamental professional ethic in archaeology and other heritage fields engaged in study, application, and management of sociocultural resources. Prerequisite: 30 units including one of ARCH 100, ARCH 201, GEOG 100 or REM 100. Breadth-Humanities

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.

FROM: Prerequisite: 30 units including one of ARCH 100, ARCH 201, GEOG 100 or REM 100.

PREREQUISITE

TO:

LEARNING OUTCOMES

RATIONALE

Course credit hours have been increased to reflect actual class contact hours. Breadth designation approved by the University Curriculum office.

1. Calendar Entry Change for Archaeology Honours

Rationale:

Minimum standards for ARCH Honours admission raised to maintain program integrity and student success.

CURRENT	PROPOSED
<p>Admission Requirements</p> <p>Entry into the honours program requires a 3.00 or higher cumulative grade point average (CGPA), and departmental permission.</p> <p>Minimum Grade Requirements</p> <p>Students must maintain a 3.00 or higher cumulative grade point average (CGPA) to remain in the program. To satisfy the requirements of an honours degree students must achieve a minimum 3.00 graduation grade point average (GPA). The graduation GPA must be obtained both on the overall course work (CGPA) as well as on the upper division subset of that work (UDGPA).</p>	<p>Admission Requirements</p> <p><u>Prior to application to the honours program, the following is required:</u></p> <ul style="list-style-type: none"> • <u>A minimum Archaeology GPA of 3.33</u> • <u>Completion of ARCH 372, with a grade of B or better</u> • <u>A minimum CGPA of 3.00</u> • <u>Departmental permission to enter program</u> <p>Minimum Grade Requirements</p> <p><u>To remain in the honours program, the following is required:</u></p> <ul style="list-style-type: none"> • <u>Maintain a minimum 3.00 CGPA</u> • <u>Maintain a minimum 3.00 Archaeology GPA</u>

<http://www.sfu.ca/students/calendar/2015/spring/programs/archaeology/honours/bachelor-of-arts.html>

2. Calendar Entry Change for Archaeology and First Nations Studies Joint Major

Rationale:

Including minimum number of upper division units required provides clarification for students in program and brings the description in line with other ARCH calendar entries.

CURRENT	PROPOSED
<p>Program Requirements</p> <p>Students complete 120 units as specified below. Students may opt for a bachelor of arts degree from either the Faculty of Arts and Social Sciences or the Faculty of Environment. Faculty requirements will be governed by the faculty from which the student chooses to complete a degree.</p>	<p>Program Requirements</p> <p><u>Students complete 120 units, including a minimum of 45 upper division units, as specified below.</u> Students may opt for a bachelor of arts degree from either the Faculty of Arts and Social Sciences or the Faculty of Environment. Faculty requirements will be governed by the faculty from which the student chooses to complete a degree.</p>

<http://www.sfu.ca/students/calendar/2015/spring/programs/archaeology-and-first-nations-studies/joint-major/bachelor-of-arts.html>



faculty of environment

MEMO

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ATTENTION	Alex Clapp, Associate Dean (Undergraduate)
FROM	Dan Burns, Manager Curriculum and Academic Planning
RE	Submissions to FENV UCC
DATE	January 26, 2015

Please submit the following curricular proposals to the FENV Undergraduate Curriculum Committee for consideration at its February 4, 2015 meeting:

New Coop course proposals for "Faculty Level" programs in FENV (requested by Paul DeGrace)

- ENV 302 Environmental Practicum I
- ENV 303 Environmental Practicum II
- ENV 402 Environmental Practicum III
- ENV 403 Environmental Practicum IV
- ENV 404 Environmental Practicum V

Credit and course description change for:

- ENV 321 Ecological Economics (concurrent change with REM 321)

Program changes in the Certificate in Environmental Literacy

- Removal of Geography and Economics – Environmental Specialty Major under ineligible students (requested by Geography)
- Addition of new elective courses

Application for "W" designation for ENV 222-3 Environmental Controversy: An Interdisciplinary Study of Environmental Issues

Thank you,



COURSE SUBJECT ENV NUMBER 302

COURSE TITLE

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

Environment Practicum I

AND

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

Environment Practicum I

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

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

First term of work experience for Faculty of Environment programs. Units from this course do not count towards the units required for an SFU degree. Students in a BEnv, BA or BSc program should apply to the Environment Co-operative Education Program.

REPEAT FOR CREDIT YES NO How many times? 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 a library report and, if appropriate, confirmation that funding arrangements have been addressed.

Library report status, see lib.sfu.ca/collections/course-assessments N/A

RATIONALE FOR INTRODUCTION OF THIS COURSE

If more space is needed, please use the provided text box on page 4 of this document

This course is required for students registered in the 3 new BENV majors, (Environmental Resource Management, Global Environmental Systems and the Sustainable Business Joint Major) while placed on Co-op workterms. Registration in a Practicum course is required while on a Co-op work term.

SCHEDULING AND ENROLLMENT INFORMATION

Term and year course would first be offered (e.g. FALL 2014) and planned frequency (e.g. each semester) of offering thereafter:

Offered each term beginning September 2015

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

What is the probable enrollment when offered? Estimate: 1-15



UNITS

Indicate number of units:

Indicate no. of contact hours for: Lecture Seminar Tutorial Lab Other – please explain

OTHER

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

Paul DeGrace - FENV Coop Program Coordinator

WQB DESIGNATION (attach approval from Curriculum Office)

N/A

PREREQUISITE AND / OR COREQUISITE

Admission into Environment Co-operative Education Program

EQUIVALENT COURSES

Does this course replicate the content of a previously-approved course to such an extent that students should not receive credit for both courses?

COURSE - LEVEL EDUCATIONAL GOALS (OPTIONAL)

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

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

Dan Burns



COURSE SUBJECT ENV NUMBER 303

COURSE TITLE

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

Environment Practicum II

AND

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

Environment Practicum II

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

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

Second term of work experience for Faculty of Environment programs. Units from this course do not count towards the units required for an SFU degree. Students in a BEnv, BA or BSc program should apply to the Environment Co-operative Education Program.

REPEAT FOR CREDIT YES NO How many times? 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 a library report and, if appropriate, confirmation that funding arrangements have been addressed.

Library report status, see lib.sfu.ca/collections/course-assessments N/A

RATIONALE FOR INTRODUCTION OF THIS COURSE

If more space is needed, please use the provided text box on page 4 of this document

This course is required for students registered in the 3 new BENV majors, (Environmental Resource Management, Global Environmental Systems and the Sustainable Business Joint Major) while placed on Co-op workterms. Registration in a Practicum course is required while on a Co-op work term.

SCHEDULING AND ENROLLMENT INFORMATION

Term and year course would first be offered (e.g. FALL 2014) and planned frequency (e.g. each semester) of offering thereafter:

Offered each term beginning September 2015

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

What is the probable enrollment when offered? Estimate: 1-15



UNITS

Indicate number of units:

Indicate no. of contact hours for: Lecture Seminar Tutorial Lab Other – please explain

OTHER

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

Paul DeGrace - FENV Coop Program Coordinator

WQB DESIGNATION (attach approval from Curriculum Office)

N/A

PREREQUISITE AND / OR COREQUISITE

ARCH 350, ENV 302 or GEOG 302 and re-admission into Environment Co-operative Education Program

EQUIVALENT COURSES

Does this course replicate the content of a previously-approved course to such an extent that students should not receive credit for both courses?

COURSE - LEVEL EDUCATIONAL GOALS (OPTIONAL)

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

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

Dan Burns

COURSE SUBJECT ENV

NUMBER 321

EXISTING COURSE, CHANGES RECOMMENDED

Please check appropriate revision(s):

 Course number
 Credit
 Title
 Description
 Prerequisite
WORDING/DESCRIPTION EDITS TO EXISTING COURSE**INSTRUCTIONS:**

1. Check which elements of the course are being changed.
2. Indicate deleted or changed text using strikethrough.
3. Indicate added or new text using underline.
4. Equivalent courses: preclusion statement should read: a. Students with credit for x cannot take y for further credit.
5. Rationale must be included. If more space is needed than provided below, please use the provided text box on page 2 of this document.
6. Effective term = Fall, Spring, Summer

PROVIDE ACTUAL WORDING/DESCRIPTION EDITS TO EXISTING COURSE**ENV 321 - Ecological Economics (3) (4)**

Introduces students to the concepts and methods of ecological economics. Provides students with grounding in the core principles of conventional economics applied to the environment but then extends this to the integration of economics and ecology to create a new ecological-economic understanding of environmental change and sustainability. ~~Students who have taken ECON 260 cannot take this course for further credit. REM 321 is identical to ENV 321 and students cannot take both for credit. Students with credit for REM 321 cannot take ENV 321 for further credit.~~
Prerequisite: minimum of 45 units.

SAMPLEPOL 223 ~~Canadian~~ American Political Economy (3)

~~An introductory study of America's~~ Canada's political economy, stressing the interrelated nature of Canada's economic and political life. ~~The course~~ Focuses on current economic problems and policies, taking into account the geographical, historical and political environments. Topics include the resource and industrial structures, research and development, the public sector, fiscal and monetary policy, the role of the state, trade and foreign ownership, energy, regional disparity, corporate concentration and the political economy of federalism.

~~This course is identical to CNS 280 and students cannot take both courses for credit.~~

Students with credit for CNS 280 cannot take POL 223 for further credit.

Recommended Pre-requisite: POL 100 or 101W.

Breadth – Social Sciences.

RATIONALE

If more space is needed, please use the provided text box on page 2 of this document

1) Increase from 3 to 4 credits: the course has a highly interdisciplinary student base. Learning will be more effective if more time can be provided for teaching the complex and interdisciplinary course topics.

Effective term and year

Fall 2015



RATIONALE

More space if needed.

2) Removal of stipulation about ECON-260: further experience with teaching ENV-321 has shown that the content and learning outcomes of ENV-321 are substantively different from those of ECON-260. Thus, it is fair and appropriate to allow students that have previously taken ECON-260 to also complete ENV-321 for credit.



COURSE SUBJECT ENV NUMBER 402

COURSE TITLE

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

Environment Practicum III

AND

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

Environment Practicum III

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

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

Third term of work experience for Faculty of Environment programs. Units from this course do not count towards the units required for an SFU degree. Students in a BEnv, BA or BSc program should apply to the Environment Co-operative Education Program.

REPEAT FOR CREDIT YES NO How many times? 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 a library report and, if appropriate, confirmation that funding arrangements have been addressed.

Library report status, see lib.sfu.ca/collections/course-assessments N/A

RATIONALE FOR INTRODUCTION OF THIS COURSE

If more space is needed, please use the provided text box on page 4 of this document

This course is required for students registered in the 3 new BENV majors, (Environmental Resource Management, Global Environmental Systems and the Sustainable Business Joint Major) while placed on Co-op work terms. Registration in a Practicum course is required while on a Co-op work term.

SCHEDULING AND ENROLLMENT INFORMATION

Term and year course would first be offered (e.g. FALL 2014) and planned frequency (e.g. each semester) of offering thereafter:

Offered each term beginning September 2015

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

What is the probable enrollment when offered? Estimate: 1-15



UNITS

Indicate number of units:

Indicate no. of contact hours for: Lecture Seminar Tutorial Lab coop Other – please explain

OTHER

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

Paul DeGrace - FENV Coop Program Coordinator

WQB DESIGNATION (attach approval from Curriculum Office)

N/A

PREREQUISITE AND / OR COREQUISITE

ARCH 351, ENV 303 or GEOG 303 and re-admission into Environment Co-operative Education Program

EQUIVALENT COURSES

Does this course replicate the content of a previously-approved course to such an extent that students should not receive credit for both courses?

COURSE - LEVEL EDUCATIONAL GOALS (OPTIONAL)

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

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

Dan Burns



COURSE SUBJECT ENV NUMBER 403

COURSE TITLE

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

Environment Practicum IV

AND

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

Environment Practicum IV

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

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

Fourth term of work experience for Faculty of Environment programs. Units from this course do not count towards the units required for an SFU degree. Students in a BEnv, BA or BSc program should apply to the Environment Co-operative Education Program.

REPEAT FOR CREDIT YES NO How many times? 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 a library report and, if appropriate, confirmation that funding arrangements have been addressed.

Library report status, see lib.sfu.ca/collections/course-assessments N/A

RATIONALE FOR INTRODUCTION OF THIS COURSE

If more space is needed, please use the provided text box on page 4 of this document

This course is required for students registered in the 3 new BENV majors, (Environmental Resource Management, Global Environmental Systems and the Sustainable Business Joint Major) while placed on Co-op work terms. Registration in a practicum course is required while on a Co-op work term.

SCHEDULING AND ENROLLMENT INFORMATION

Term and year course would first be offered (e.g. FALL 2014) and planned frequency (e.g. each semester) of offering thereafter:

Offered each term beginning September 2015

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

What is the probable enrollment when offered? Estimate: 1-15



UNITS

Indicate number of units: 3 ADDITIVE COOP CREDITS

Indicate no. of contact hours for: [] Lecture [] Seminar [] Tutorial [] Lab [x] COOP Other – please explain

OTHER

[Empty box for other information]

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

Paul DeGrace - FENV Coop Program Coordinator

WQB DESIGNATION (attach approval from Curriculum Office)

N/A

PREREQUISITE AND / OR COREQUISITE

ARCH 450, ENV 402 or GEOG 402 and re-admission into Environment Co-operative Education Program

EQUIVALENT COURSES

Does this course replicate the content of a previously-approved course to such an extent that students should not receive credit for both courses?

[Empty box for equivalent courses]

COURSE - LEVEL EDUCATIONAL GOALS [OPTIONAL]

[Empty box for educational goals]

FEES

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



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

Dan Burns



COURSE SUBJECT ENV NUMBER 404

COURSE TITLE

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

Environment Practicum V

AND

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

Environment Practicum V

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

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

Fifth term of work experience for Faculty of Environment programs. Units from this course do not count towards the units required for an SFU degree. Students in a BEnv, BA or BSc program should apply to the Environment Co-operative Education Program.

REPEAT FOR CREDIT YES NO How many times? 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 a library report and, if appropriate, confirmation that funding arrangements have been addressed.

Library report status, see lib.sfu.ca/collections/course-assessments N/A

RATIONALE FOR INTRODUCTION OF THIS COURSE

If more space is needed, please use the provided text box on page 4 of this document

This course is required for students registered in the 3 new BENV majors, (Environmental Resource Management, Global Environmental Systems and the Sustainable Business Joint Major) while placed on Co-op work terms. Registration in a Practicum course is required while on a Co-op work term.

SCHEDULING AND ENROLLMENT INFORMATION

Term and year course would first be offered (e.g. FALL 2014) and planned frequency (e.g. each semester) of offering thereafter:

Offered each term beginning September 2015

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

What is the probable enrollment when offered? Estimate: 1-15



UNITS

Indicate number of units:

Indicate no. of contact hours for: Lecture Seminar Tutorial Lab Other – please explain

OTHER

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

Paul DeGrace - FENV Coop Program Coordinator

WQB DESIGNATION (attach approval from Curriculum Office)

N/A

PREREQUISITE AND / OR COREQUISITE

ARCH 451, ENV 403 or GEOG 403 and re-admission into Environment Co-operative Education Program

EQUIVALENT COURSES

Does this course replicate the content of a previously-approved course to such an extent that students should not receive credit for both courses?

COURSE - LEVEL EDUCATIONAL GOALS (OPTIONAL)

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

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

Dan Burns

FROM:

Environmental Literacy

CERTIFICATE

There are no deletions to the existing calendar entry.

TO:

Environmental Literacy

CERTIFICATE

The program 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 program will also provide students with knowledge of environmental issues as they pertain to their own field of study.

The program will require students to complete a total of 21 units, comprised of 12 lower division units and a minimum of nine 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 to 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 certificate:

- environmental resource management major (bachelor of environment)
- environmental Science major (bachelor of science)
- environmental Science honours (bachelor of science)
- global environmental systems major (bachelor of environment)
- geography - environmental specialty major (bachelor of arts)
- geography - environmental specialty honours (bachelor of arts)
- sustainable business joint major (bachelor of business administration or bachelor of environment)

Program Requirements

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

ENV 222 - Environmental Controversy: An interdisciplinary study of environmental issues (3)
GEOG 111 - Earth Systems (3)

and one of

BISC 204 - Introduction to Ecology (3)
GEOG 215 - Biogeography (3)

and one of

GEOG 102 - World Problems in Geographic Perspective (3)
REM 100 - Global Change (3)

Elective Groups

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

SOCIAL AND HISTORICAL (GROUP A)

ARCH 329 - Special Topics in Environmental Archaeology (3)
ARCH 340 - Zooarchaeology (5)
ARCH 365 - Archaeological Perspectives on Human Ecology (3)
ARCH 386 - Archaeological Resource Management (3)
ARCH 390 - Archaeobotany (5)
CMNS 349-4 Environment, Media and Communication
ENV 320W - Ethics and the Environment (3)
FNST 212 - Indigenous Perceptions of Landscape (3)
FNST 332 - Ethnobotany of British Columbia First Nations (3)
FNST 403 - Indigenous Knowledge in the Modern World (3)
FNST 433 - Indigenous Environmental Justice and Activism (4)
GEOG 322 - World Resources (4)
GEOG 362 - Geography of Urban Built Environments (4)
GEOG 377 - Environmental History (4)
GEOG 385 - Agriculture and the Environment (4)
GEOG 389W - Nature and Society (4)
HIST 377 - Environmental History (4)
HSCI 216 - Ecological Determinants of Human Growth, Development and Health (3)
HSCI 304 - Perspectives on Environmental Health (3)
HSCI 403 - Health and the Built Environment (3)
HUM 325 - The Humanities and the Natural World (4)
LBST 311-3 Labour and the Environment
PHIL 328 - Environmental Ethics (3)
PSYC 366-3 Psychology and Environmental Sustainability
SA 326 - Ecology and Social Thought (S) (4)

SA 371 - The Environment and Society (SA) (4)

NATURAL SCIENCE (GROUP B)

BISC 304 - Animal Ecology (3)

BISC 309 - Conservation Biology (3)

BISC 313 - Environmental Toxicology (3)

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

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

CHEM 317 - Analytical Environmental Chemistry (2)

CHEM 371 - Chemistry of the Aqueous Environment (3)

CHEM 372 - Chemistry of the Atmospheric Environment (3)

EASC 104 - Geohazards - Earth in Turmoil (3)

EASC 107 - Economic Geological Resources (3)

EASC 209W - Environmental Geoscience (3)

EASC 304 - Hydrogeology (3)

EASC 314 - Principles of Glaciology (3)

EVSC 100 - Introduction to Environmental Science (3)

GEOG 213 - Introduction to Geomorphology (3)

GEOG 214 - Weather and Climate (3)

GEOG 311 - Hydrology (4)

GEOG 312 - Geography of Natural Hazards (4)

GEOG 313 - River Geomorphology (4)

GEOG 314 - The Climate System (4)

GEOG 315 - World Ecosystems (4)

GEOG 316 - Global Biogeochemical and Water Cycles (4)

GEOG 318 - Soils in Our Environment (4)

PHYS 346 - Energy and the Environment (3)

REM 375-3 Ecology and Conservation of Coastal B.C.

ENVIRONMENTAL MANAGEMENT (GROUP C)

ARCH 286-3 Cultural Heritage Stewardship in a Global Context

ARCH 363-3 Landscape Archaeology

BUS 453 - Sustainable Innovation (3)

BUS 489 - Management Practices for Sustainability (3)

CMNS 349 - Environment, Media and Communication (4)

DEVS 201 - Introduction to Development and Sustainability (3)

DEVS 401 - Issues, Concepts and Cases in Development and Sustainability (4)

ECON 260 - Environmental Economics (3)

ECON 362 - Economics of Natural Resources (3)

ECON 460 - Seminar in Environmental Economics (3)

ENV 221-3 Systems Thinking and the Environment

ENV 319 - Environmental Law (3)

ENV 321 - Ecological Economics (3)

GEOG 322 - World Resources (4)

GEOG 385 - Agriculture and the Environment (4)

POL 452W - Energy Policy (4)

REM 200-3 Introduction to Resource and Environmental Management in Canada

REM 201 - Introduction to Sustainable Community Development (3) or SCD 201 - Introduction to

Sustainable Community Development (3)

REM 301 - Sustainable Community Development Theory and Practice (4) or SCD 301 - Sustainable Community Development Theory and Practice (4)

REM 321 - Ecological Economics (3) or ENV 321 - Ecological Economics (3)

REM 350-4 Sustainable Energy and Materials Management

REM 356 - Institutional Arrangements for Sustainable Environmental Management (3)

REM 370-3 Global Resource Issues in Oceanography

REM 375-3 Ecology and Conservation of Coastal B.C.

REM 445 - Environmental Risk Assessment (3)

REM 471 - Forest Ecosystem Management (3)

COURSE SUBJECT NUMBER **EXISTING COURSE, CHANGES RECOMMENDED**

Please check appropriate revision(s):

 Course number
 Credit
 Title
 Description
 Prerequisite
WORDING/DESCRIPTION EDITS TO EXISTING COURSE**INSTRUCTIONS:**

1. Check which elements of the course are being changed.
2. Indicate deleted or changed text using strikethrough.
3. Indicate added or new text using underline.
4. Equivalent courses: preclusion statement should read: a. Students with credit for x cannot take y for further credit.
5. Rationale must be included. If more space is needed than provided below, please use the provided text box on page 2 of this document.
6. Effective term = Fall, Spring, Summer

PROVIDE ACTUAL WORDING/DESCRIPTION EDITS TO EXISTING COURSE**GEOG 251 Quantitative Geography (3)**

An introduction to basic quantitative ~~methods and software techniques~~ for the solution collection, management, and analysis of geographic problems data. Topics include ~~spatial describing data, measurements, central tendency measures, simple probability theory and gathering samples, theoretical distributions, inferential methods, linking samples and populations, testing significance, and correlation analysis exploring spatial relationships - all within practical, real-world application contexts.~~

Prerequisite: ~~GEOG 100 or 221 or 241; and 111.~~ Quantitative.

SAMPLEPOL 223 ~~Canadian~~ American Political Economy (3)

~~An introductory study of America's~~ Canada's political economy, stressing the interrelated nature of Canada's economic and political life. ~~The course~~ Focuses on current economic problems and policies, taking into account the geographical, historical and political environments. Topics include the resource and industrial structures, research and development, the public sector, fiscal and monetary policy, the role of the state, trade and foreign ownership, energy, regional disparity, corporate concentration and the political economy of federalism.

~~This course is identical to CNS 280 and students cannot take both courses for credit.~~
~~Students with credit for CNS 280 cannot take POL 223 for further credit.~~

~~Recommended~~ Pre-requisite: POL 100 or 101W.

Breadth – Social Sciences.

RATIONALE

If more space is needed, please use the provided text box on page 2 of this document

Changed description is a better reflection of course content. The prerequisite change is streamlined [GEOG 100 is a prerequisite for 221 and 241] and aligned with required academic background [just one of the department's two basic introductory courses should suffice].

Effective term and year



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MEMORANDUM

ATTENTION Alex Clapp, Associate Dean, FENV **DATE** January 29, 2015
FROM Susan Rhodes, Director **PAGES** 1
University Curriculum & Institutional Liaison
RE: GEOG B and Q approvals

The University Curriculum Office has approved the following designations for Geography courses in the Faculty of Environment, effective Fall 2015 (1157):

GEOG 213 Introduction to Geomorphology – Q/B-Sci
GEOG 221 Economic Geography – B-Soc
GEOG 253 Introduction to Remote Sensing – B-Sci

Cc: Ivor Winton, Department of Geography



FACULTY OF ENVIRONMENT
Department of Geography

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WEB www.sfu.ca/geography

To:	Alex Clapp Associate Dean; and Chair, Curriculum Committee, FEnv
From:	Ivor Winton Chair, Undergraduate Studies Committee, Geography
Re:	Undergraduate curriculum changes
Date:	January 26, 2015

Enclosed are proposed changes to Geography's undergraduate curriculum, as approved at a departmental meeting on January 22, 2015. Would you please bring them before the FEnv Curriculum Committee for consideration?

Course change: GEOG 251 (description and prerequisite)

Program change: Addition of GEOG 251 to BSc Physical Geography Major

Below is the text for the Physical Geography Major lower division requirements from the Summer 2015 calendar proofs, since that text is the first to contain *prior* program changes to the Major approved by Senate on Dec 1, 2014 [see S.14-154]. Just one further change is now proposed, namely, an addition to the common requirements. See next page. **There are no deletions so the “FROM” section is not include.**

Rationale: this course addition increases student flexibility and is acceptable to APEGBC (the Association of Professional Engineers and Geoscientists of British Columbia).

TO:

Physical Geography Major

BACHELOR OF SCIENCE

The department offers a bachelor of science (BSc) program in physical geography.

The program can be completed through one of three streams: biogeophysical science; geoscience; and physical geography and spatial information science.

Program Requirements

Students complete 120 units, as specified below.

Lower Division Requirements

COMMON REQUIREMENTS

All students, regardless of the stream they choose, will complete a total of 25-27 units, including all of

CHEM 121 - General Chemistry and Laboratory I (4)
EASC 101 - Dynamic Earth (3)
GEOG 100 - Society, Space, Environment: Introducing Human
Geography (3)
GEOG 111 - Earth Systems (3)

and one of

MATH 150 - Calculus I with Review (4) *
MATH 151 - Calculus I (3) *
MATH 154 - Calculus I for the Biological Sciences (3)

and one of

MATH 152 - Calculus II (3) *
MATH 155 - Calculus II for the Biological Sciences (3)

and one of

PHYS 101 - Physics for the Life Sciences I (3)
PHYS 120 - Mechanics and Modern Physics (3) **
PHYS 125 - Mechanics and Special Relativity (3) **
PHYS 140 - Studio Physics - Mechanics and Modern Physics (4)

and one of

GEOG 251 - Quantitative Geography (3)
STAT 101 - Introduction to Statistics (3)
STAT 201 - Statistics for the Life Sciences (3)
STAT 270 - Introduction to Probability and Statistics (3)

BIOGEOPHYSICAL SCIENCE STREAM

In addition to the common requirements shown above,

students who choose this stream will complete 20 units, including both of

BISC 101 - General Biology (4)

BISC 102 - General Biology (4)

and two of

GEOG 213 - Introduction to Geomorphology (3)

GEOG 214 - Weather and Climate (3)

GEOG 215 - Biogeography (3)

and one of

GEOG 221 - Economic Geography (3)

GEOG 241 - Social Geography (3)

GEOG 261 - Introduction to Urban Geography (3)

and one of

GEOG 253 - Introduction to Remote Sensing (3)

GEOG 255 - Geographical Information Science I (3)

GEOSCIENCE STREAM

The Professional Environmental Geoscience syllabus requirements of APEGBC (Association of Professional Engineers and Geoscientists of British Columbia) can be met through this stream and selected courses in other university departments. Students must choose elective courses in consultation with an academic advisor because APEGBC has specific groupings of elective courses in its Environmental Geoscience syllabus.

In addition to the common requirements as shown above, students who choose this stream will also complete 27 units, including all of

EASC 201 - Stratigraphy and Sedimentation (3)

EASC 204 - Structural Geology I (3)

EASC 210 - Historical Geology (3)

GEOG 213 - Introduction to Geomorphology (3)

GEOG 214 - Weather and Climate (3)

GEOG 215 - Biogeography (3)

and one of

EASC 207 - Introduction to Applied Geophysics (3)

EASC 313 - Introduction to Soil and Rock Engineering (3)

and one of

GEOG 221 - Economic Geography (3)

GEOG 241 - Social Geography (3)

GEOG 261 - Introduction to Urban Geography (3)

and one of

GEOG 253 - Introduction to Remote Sensing (3)

GEOG 255 - Geographical Information Science I (3)

PHYSICAL GEOGRAPHY AND SPATIAL INFORMATION SCIENCE STREAM

In addition to the common requirements shown above, students who choose this stream will also complete 23 units, including all of

BISC 101 - General Biology (4)
BISC 102 - General Biology (4)
GEOG 253 - Introduction to Remote Sensing (3)
GEOG 255 - Geographical Information Science I (3)

and two of

GEOG 213 - Introduction to Geomorphology (3)
GEOG 214 - Weather and Climate (3)
GEOG 215 - Biogeography (3)

and one of

GEOG 221 - Economic Geography (3)
GEOG 241 - Social Geography (3)
GEOG 261 - Introduction to Urban Geography (3)

* students in the Geoscience stream must take Math 152

** students in the geoscience stream are encouraged to complete the standard (PHYS 120) or advanced (PHYS 125) PHYS course

NO CHANGES ARE PROPOSED FOR THE UPPER DIVISION REQUIREMENTS



*School Of Resource and
Environmental Management*

SIMON FRASER UNIVERSITY

Memorandum

To: Dr. Alex Clapp, Associate Dean, FENV

From: Dr. Sean Cox, Chair, REM Undergraduate Committee

Date: January 26, 2015

Subject: Approval of REM 321 course change

Dear Alex,

Please find enclosed one submission:

1. REM 321 Ecological Economics – Course Change Form

This proposal has been approved by the REM Undergraduate Curriculum Committee.

Sincerely,

Sean Cox
Chair, REM UCC

COURSE SUBJECT REM

NUMBER 321

EXISTING COURSE, CHANGES RECOMMENDED

Please check appropriate revision(s):

 Course number
 Credit
 Title
 Description
 Prerequisite
WORDING/DESCRIPTION EDITS TO EXISTING COURSE**INSTRUCTIONS:**

1. Check which elements of the course are being changed.
2. Indicate deleted or changed text using strikethrough.
3. Indicate added or new text using underline.
4. Equivalent courses: preclusion statement should read: a. Students with credit for x cannot take y for further credit.
5. Rationale must be included. If more space is needed than provided below, please use the provided text box on page 2 of this document.
6. Effective term = Fall, Spring, Summer

PROVIDE ACTUAL WORDING/DESCRIPTION EDITS TO EXISTING COURSE**REM 321 - Ecological Economics ~~(3)~~ (4)**

Introduces students to the concepts and methods of ecological economics. Provides students with grounding in the core principles of conventional economics applied to the environment but then extends this to the integration of economics and ecology to create a new ecological-economic understanding of environmental change and sustainability. ~~Students who have taken ECON 260 cannot take this course for further credit. REM 321 is identical to ENV 321 and students cannot take both for credit. Students with credit for ENV 321 cannot take REM 321 for further credit.~~
Prerequisite: minimum of 45 units.

SAMPLEPOL 223 ~~Canadian~~ American Political Economy (3)

~~An introductory study of America's~~ Canada's political economy, stressing the interrelated nature of Canada's economic and political life. ~~The course~~ Focuses on current economic problems and policies, taking into account the geographical, historical and political environments. Topics include the resource and industrial structures, research and development, the public sector, fiscal and monetary policy, the role of the state, trade and foreign ownership, energy, regional disparity, corporate concentration and the political economy of federalism.

~~This course is identical to CNS 280 and students cannot take both courses for credit.~~

Students with credit for CNS 280 cannot take POL 223 for further credit.

Recommended Pre-requisite: POL 100 or 101W.

Breadth – Social Sciences.

RATIONALE

If more space is needed, please use the provided text box on page 2 of this document

1) Increase from 3 to 4 credits: the course has a highly interdisciplinary student base. Learning will be more effective if more time can be provided for teaching the complex and interdisciplinary course topics.

Effective term and year

Fall 2015



RATIONALE

More space if needed.

2) Removal of stipulation about ECON-260: further experience with teaching REM-321 has shown that the content and learning outcomes of REM-321 are substantively different from those of ECON-260. Thus, it is fair and appropriate to allow students that have previously taken ECON-260 to also complete REM-321 for credit.