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MEMORANDUM

ATTENTION	Senate	DATE	November 7, 2016
FROM	Mark Lechner, Acting Chair Senate Committee on Undergraduate Studies	PAGES	1/1
RE:	Faculty of Environment (SCUS 16-42)		

For information:

Acting under delegated authority at its meeting of November 3, 2016 SCUS approved the following curriculum revisions.

1. Department of Geography (SCUS 16-42b) effective Fall 2017

(i) Requirement changes to the Geography Programs

- Geography Major and Honours
- Environmental Specialty Major and Environmental Specialty Honours
- Physical Geography Major
- Spatial Information Systems Certificate

2. Department of Archaeology (SCUS 16-42c)(i) Title change for ARCH 201 effective *Summer 2017*

(ii) New Course Proposal: ENV 100-3, Great Ideas in Environment with B-Hum designation effective Fall 2017

(iii) Requirement changes to the Certificate in Environmental Literacy effective *Summer 2017*



FACULTY OF ENVIRONMENT

SCUS 16-42

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MEMORANDUM

ATTENTION Wade Parkhouse, Acting Chair of SCUS
FROM Alex Clapp, Chair, FENV UCC
RE: Faculty of Environment Curriculum Changes

DATE Oct 19th 2016

Please find attached the following submissions from the Faculty of Environment to SCUS. These items were approved by the Faculty of Environment Undergraduate Curriculum Committee on October 5th, 2016, with the exception of the first item, which was approved in June 2016.

- 2) Changes to Geography Programs: 400-level requirements
- 3) Archaeology 201 name change
- 4) ENV100 course proposal
- 5) Calendar Entry Change to the Certificate in Environmental Literacy

Thanks,
Alex



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Department of Geography

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To: Alex Clapp, Associate Dean, Faculty of Environment
From: Eugene McCann, Chair, Undergraduate Studies Committee, Geography
Re: Changes to Geog Programs: 400-level requirements, various programs
Date: May 20 2016

Attached are changes to the Geography programs listed below. All changes are to the numbers of 400-level courses required in each program. These changes were approved by the Geography Undergraduate Studies Committee on May 16 2016 and by the Department meeting on May 20 2016.

Programs affected:

- BA Geography & BA Geography (Hons)
- BA Environmental Specialty & BA Environmental Specialty (Hons)
- BSc Physical
- SIS Certificate



Calendar Entry Change

Name of Program or Name of Faculty

Rationale for change:

To provide more flexibility for students to allow them to complete their programs as efficiently as possible and to provide more flexibility for the department when scheduling courses.

Effective term and year: Fall 2017

The following program(s) will be affected by these changes:

Geography Major, Geography Honours

Calendar Change: “to” and “from” sections are not required. All deletions should be crossed out as follows: ~~sample~~. All additions should be marked by a **bold**.

Geography Major

Bachelor of Arts

Students must complete 120 units including 45 upper division units.

[...]

Program Requirements

Students complete 120 units, as specified below.

Lower Division Requirements

[...]

Upper Division Requirements

Students complete 32 units of 300 and 400 division courses in geography within one of the following two concentrations.

Society and Environment Concentration

Students choosing this concentration complete two of

GEOG 325 - Geographies of Consumption (4)

GEOG 362 - Geography of Urban Built Environments (4)

GEOG 363 - Urban Planning and Policy (4)

GEOG 377 - Environmental History (4)

GEOG 381 - Political Geography (4)

GEOG 382 - Population Geography (4)

GEOG 386 - Health Geography (4)

GEOG 387 - Geography and Gender (4)

and one of

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 317 - Soil Science (4)

GEOG 318 - Soils in Our Environment (4)

GEOG 319 - Landscape Ecology (4)

and any three other courses from the full list of 300 level geography courses

and one of

GEOG 420 - Cultural Geography (4)

GEOG 432 - Problems in Environmental History (4)

GEOG 440 - Property, Land, Society (4)

GEOG 441 - Cities, Space, and Politics (4)

GEOG 442 - A World of Cities (4)

GEOG 449 - City and Environment (4)

GEOG 486 - Health Care Geographies (4)

and any one other course from the full list of 400 level geography courses

and any four other courses from the full list of 300 and 400 level geography courses

and any additional courses, in geography and across the University, to complete the required total of 45 upper division units.

Resources, Economy, and Environment Concentration

Students choosing this concentration complete two of

GEOG 321 - Geographies of Global Capitalism (4)

GEOG 322 - World Resources (4)

GEOG 323 - Industrial Location (4)

GEOG 324 - Geography of Transportation (4)

GEOG 327 - Geography of Tourism (4)

GEOG 328 - Labour Geographies (3)

GEOG 383 - Regional Development and Planning (4)

GEOG 385 - Agriculture and the Environment (4)

GEOG 389W - Nature and Society (4)

and one of

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 317 - Soil Science (4)

GEOG 318 - Soils in Our Environment (4)

GEOG 319 - Landscape Ecology (4)

and any three other courses from the full list of 300 level geography courses

and one of

GEOG 421 - Geographical Political Economy (4)

GEOG 422 - Theories and Practices of Development (4)

GEOG 424 - Cities, Transportation, Infrastructure (4)

GEOG 426 - Industrial Change and Local Development (4)

GEOG 427 - Selected Topics in the Geography of Tourism (4)



GEOG 428 - World Forests (4)
GEOG 445 - Resource Planning (4)
GEOG 468 - Society and Environment in China (4)
~~and any one other course from the full list of 400 level geography courses~~
and any four other courses from the full list of 300 and 400 level geography courses
and any additional courses, in geography and across the University, to complete the required total of 45 upper division units.

Geography Honours

Bachelor of Arts

[...]

Lower Division Requirements

[...]

Upper Division Requirements

Students complete 50 units of 300 and 400 division courses in geography within one of the following two concentrations.

Society and Environment Concentration

Students choosing this concentration complete one of

GEOG 300 - Possible Worlds: The Rise of Geographical Thinking (4)

and two of

GEOG 325 - Geographies of Consumption (4)

GEOG 362 - Geography of Urban Built Environments (4)

GEOG 363 - Urban Planning and Policy (4)

GEOG 377 - Environmental History (4)

GEOG 381 - Political Geography (4)

GEOG 382 - Population Geography (4)

GEOG 386 - Health Geography (4)

GEOG 387 - Geography and Gender (4)

and one of

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 317 - Soil Science (4)

GEOG 318 - Soils in Our Environment (4)

GEOG 319 - Landscape Ecology (4)

and any three other courses from the full list of 300 level geography courses

and one of

GEOG 420 - Cultural Geography (4)

GEOG 432 - Problems in Environmental History (4)

GEOG 440 - Property, Land, Society (4)

GEOG 441 - Cities, Space, and Politics (4)

GEOG 442 - A World of Cities (4)



GEOG 449 - City and Environment (4)
GEOG 486 - Health Care Geographies (4)
and
GEOG 491 - Honours Essay (4)
~~and any one other course from the full list of 400 level geography courses~~
and any four other courses from the full list of 300 and 400 level geography courses
and any further courses to achieve 50 upper division units in geography.

Resources, Economy, and Environment Concentration

Students choosing this concentration complete one of

GEOG 300 - Possible Worlds: The Rise of Geographical Thinking (4)

and two of

GEOG 321 - Geographies of Global Capitalism (4)

GEOG 322 - World Resources (4)

GEOG 323 - Industrial Location (4)

GEOG 324 - Geography of Transportation (4)

GEOG 327 - Geography of Tourism (4)

GEOG 383 - Regional Development and Planning (4)

GEOG 385 - Agriculture and the Environment (4)

GEOG 389W - Nature and Society (4)

and one of

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 317 - Soil Science (4)

GEOG 318 - Soils in Our Environment (4)

GEOG 319 - Landscape Ecology (4)

~~and any three other courses from the full list of 300 level geography courses~~

and one of

GEOG 421 - Geographical Political Economy (4)

GEOG 422 - Theories and Practices of Development (4)

GEOG 424 - Cities, Transportation, Infrastructure (4)

GEOG 426 - Industrial Change and Local Development (4)

GEOG 427 - Selected Topics in the Geography of Tourism (4)

GEOG 428 - World Forests (4)

GEOG 445 - Resource Planning (4)

GEOG 468 - Society and Environment in China (4)

and

GEOG 491 - Honours Essay (4)

~~and any one other course from the full list of 400 level geography courses~~

and any four other courses from the full list of 300 and 400 level geography courses

and any further courses to achieve 50 upper division units in geography.

Calendar Entry Change

Name of Program or Name of Faculty

Rationale for change:
To provide more flexibility for students to allow them to complete their programs as efficiently as possible and to provide more flexibility for the department when scheduling courses.

Effective term and year: Fall 2017

The following program(s) will be affected by these changes:
Environmental Specialty Major, Environmental Specialty Honours

Calendar Change: “to” and “from” sections are not required. All deletions should be crossed out as follows: ~~sample~~. All additions should be marked by a **bold**.

Environmental Specialty Major
Bachelor of Arts
Students must complete 120 units, including 45 upper division units.
Lower Division Requirements
[...]
Upper Division Requirements
Students complete a minimum total of 32 upper division units, including four of the following core courses
GEOG 322 - World Resources (4)
GEOG 377 - Environmental History (4)
GEOG 382 - Population Geography (4)
GEOG 385 - Agriculture and the Environment (4)
GEOG 389W - Nature and Society (4)
REM 311 - Applied Ecology and Sustainable Environments (3)
REM 356 - Institutional Arrangements for Sustainable Environmental Management (3)
and one of
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 317 - Soil Science (4)
GEOG 318 - Soils in Our Environment (4)
GEOG 319 - Landscape Ecology (4)
and one of
GEOG 351 - Multimedia Cartography (4)

GEOG 352 - Spatial Analysis (4)
 GEOG 353 - Advanced Remote Sensing (4)
 GEOG 355 - Geographical Information Science II (4)
 GEOG 356 - 3D Geovisualization (4)
 and **two one** of
 GEOG 426 - Industrial Change and Local Development (4)
 GEOG 428 - World Forests (4)
 GEOG 432 - Problems in Environmental History (4)
 GEOG 445 - Resource Planning (4)
 GEOG 449 - City and Environment (4)
 GEOG 468 - Society and Environment in China (4)
 REM 445 - Environmental Risk Assessment (3)
 REM 471 - Forest Ecosystem Management (3)
 and additional upper division (300 and 400 division) units in geography to total the required 32 units minimum.

Environmental Specialty Honours

Bachelor of Arts

[...]

Lower Division Requirements

[...]

Upper Division Requirements

Students complete a minimum total of 60 upper division units, including four of the following core courses

GEOG 322 - World Resources (4)

GEOG 377 - Environmental History (4)

GEOG 382 - Population Geography (4)

GEOG 385 - Agriculture and the Environment (4)

GEOG 389W - Nature and Society (4)

REM 311 - Applied Ecology and Sustainable Environments (3)

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

and one of

GEOG 300 - Possible Worlds: The Rise of Geographical Thinking (4)

and one of

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 317 - Soil Science (4)

GEOG 318 - Soils in Our Environment (4)

GEOG 319 - Landscape Ecology (4)

and one of

GEOG 351 - Multimedia Cartography (4)



GEOG 352 - Spatial Analysis (4)
GEOG 353 - Advanced Remote Sensing (4)
GEOG 355 - Geographical Information Science II (4)
GEOG 356 - 3D Geovisualization (4)
and **two one** of
GEOG 426 - Industrial Change and Local Development (4)
GEOG 428 - World Forests (4)
GEOG 432 - Problems in Environmental History (4)
GEOG 445 - Resource Planning (4)
GEOG 449 - City and Environment (4)
GEOG 468 - Society and Environment in China (4)
REM 445 - Environmental Risk Assessment (3)
REM 471 - Forest Ecosystem Management (3)
and
GEOG 491 - Honours Essay (4)
and any additional 300 or 400 level geography units to total 50 upper division units.

Calendar Entry Change

Name of Program or Name of Faculty

Rationale for change:

To provide more flexibility for students to allow them to complete their programs as efficiently as possible and to provide more flexibility for the department when scheduling courses.

Effective term and year: Fall 2017

The following program(s) will be affected by these changes:
Physical Geography Major

Calendar Change: “to” and “from” sections are not required. All deletions should be crossed out as follows: ~~sample~~. All additions should be marked by a **bold**.

Physical Geography Major

Bachelor of Science

[...]

Program Requirements

Students complete 120 units, as specified below.

Lower Division Requirements

[...]

Upper Division Requirements

Biogeophysical Science Stream

[...]

Geoscience Stream

[...]

Physical Geography and Spatial Information Science Stream

Students who choose this stream will complete a minimum total of 44 units, including five of the following (at least one of which must be at the 400 division)

GEOG 310 - Physical Geography Field Course (4)

GEOG 311 - Hydrology (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 317 - Soil Science (4)

GEOG 319 - Landscape Ecology (4)

GEOG 411 - Advanced Hydrology (4)

GEOG 412W - Glacial Processes and Environments (4)

GEOG 414 - Climate Change (4)

GEOG 415 - Conservation Biogeography (4)



- GEOG 417W - Advanced Soil Science (4)
and one of
GEOG 321 - Geographies of Global Capitalism (4)
GEOG 322 - World Resources (4)
GEOG 323 - Industrial Location (4)
GEOG 324 - Geography of Transportation (4)
GEOG 325 - Geographies of Consumption (4)
GEOG 327 - Geography of Tourism (4)
GEOG 362 - Geography of Urban Built Environments (4)
GEOG 363 - Urban Planning and Policy (4)
GEOG 377 - Environmental History (4)
GEOG 381 - Political Geography (4)
GEOG 382 - Population Geography (4)
GEOG 383 - Regional Development and Planning (4)
GEOG 385 - Agriculture and the Environment (4)
GEOG 386 - Health Geography (4)
GEOG 387 - Geography and Gender (4)
GEOG 389W - Nature and Society (4)
GEOG 440 - Property, Land, Society (4)
GEOG 462 - The Geography of the United States (4)
and three of and five of the following (at least one of which must be at the 400 division)
GEOG 351 - Multimedia Cartography (4)
GEOG 352 - Spatial Analysis (4)
GEOG 353 - Advanced Remote Sensing (4)
GEOG 355 - Geographical Information Science II (4)
GEOG 356 - 3D Geovisualization (4)
and two of
GEOG 451 - Spatial Modeling (4)
GEOG 453 - Theoretical and Applied Remote Sensing (4)
GEOG 455 - Theoretical and Applied GIS (4)
GEOG 457 - Geovisualization Interfaces (4)



Calendar Entry Change

Name of Program or Name of Faculty

Rationale for change:

To provide more flexibility for students to allow them to complete their programs as efficiently as possible and to provide more flexibility for the department when scheduling courses.

Effective term and year: Fall 2017

The following program(s) will be affected by these changes:
Spatial Information Systems Certificate

Calendar Change: “to” and “from” sections are not required. All deletions should be crossed out as follows: ~~sample~~. All additions should be marked by a **bold**.

Certificate: Spatial Information Systems

[...]

Program Requirements

Students complete the following courses (or their equivalents from another department or institution) including all of

GEOG 251 - Quantitative Geography (3)

GEOG 253 - Introduction to Remote Sensing (3)

GEOG 255 - Geographical Information Science I (3)

and **three five of the following (at least one of which must be at the 400 division)**

GEOG 351 - Multimedia Cartography (4)

GEOG 352 - Spatial Analysis (4)

GEOG 353 - Advanced Remote Sensing (4)

GEOG 355 - Geographical Information Science II (4)

GEOG 356 - 3D Geovisualization (4)

and **two of**

GEOG 451 - Spatial Modeling (4)

GEOG 453 - Theoretical and Applied Remote Sensing (4)

GEOG 455 - Theoretical and Applied GIS (4)

GEOG 457 - Geovisualization Interfaces (4)



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MEMORANDUM

ATTENTION Alex Clapp, Associate Dean, Undergraduate, **DATE** Oct 3rd, 2016
Faculty of Environment
FROM Ross Jamieson, Undergraduate Curriculum
Committee Chair, Archaeology
RE: Archaeology Undergraduate Calendar Change for Review and Approval

Calendar Changes

The following calendar change is submitted to the Chair of the Faculty of Environment Curriculum Committee for consideration, as needed, by the committee at its meeting on October 5th, 2016. Pending approval, the following calendar changes will be effective Spring term 2017 (1171).

Course Modification Forms

- ARCH 201 Introduction to Archaeology (name change)



COURSE SUBJECT ARCH NUMBER 201 TITLE Introduction to Archaeology

TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):

Table with 7 columns: Course number, Credit, X, Title, Description, Prerequisite

WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using strike through, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand.

FROM: Introduction to Archaeology
TO: Reconstructing the Human Past

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Spring 2017 (1171)

RATIONALE (must be included)

Title change better reflects the content of course.

COURSE SUBJECT NUMBER **COURSE TITLE LONG** — for Calendar/schedule, no more than 100 characters including spaces and punctuation**COURSE TITLE SHORT** — for enrollment/transcript, no more than 30 characters including spaces and punctuation**CAMPUS** where course will be normally taught: Burnaby Surrey Vancouver Great Northern Way Off campus**COURSE DESCRIPTION** — 50 words max. Attach a course outline. Don't include WQB or prerequisites info in this description box.

Examines great books and articles that have transformed human understanding of the environment. Students read classic works in their historical and scientific contexts and learn how the concepts they introduced changed human-nature relationships.

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 the email that serves as proof of assessment. For more information, please visit www.lib.sfu.ca/about/overview/collections/course-assessments.

Library review done? **RATIONALE FOR INTRODUCTION OF THIS COURSE**

To introduce first-year students to key advances that have shaped modern environmental thought, to expand the Faculty's offerings and enrolments at the first year level, to recruit students from across the university to the Faculty's programs, and to serve as an introduction to programs in humanities and the environment.

What makes a piece great varies from the natural sciences to the social sciences to the humanities, and from discipline to discipline within the Faculty. Great ideas can be found across the full range of the biophysical, social and built environments.

The course employs a 'great books' pedagogy, introducing students to a canon of literature within disciplines essential to understanding environmental issues. Topics and key readings will vary from year to year. The primary criterion for inclusion is that one of the instructors explain to the class why it is brilliant, original, seminal or influential.



SCHEDULING AND ENROLLMENT INFORMATION

Term and year course would first be offered (e.g. FALL 2016) Fall 2017

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

Other (describe)

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

What is the probable enrollment when offered? Estimate: 80-100

UNITS

Indicate number of units: 3

Indicate no. of contact hours: 3 Lecture 2 Seminar [] Tutorial [] Lab 1 Other; explain below

OTHER

One class hour per week will be used for group work, in-class assignments

FACULTY

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

All FENV professors are possible instructors for this course because all FENV professors have unique and distinctive visions of the environment and the most significant advances in its understanding.

WQB DESIGNATION

(attach approval from Curriculum Office)

Designation as Breadth in Humanities will be sought.

PREREQUISITE AND / OR COREQUISITE

None

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?

No



FEES

Are there any proposed student fees associated with this course other than tuition fees?

YES

NO

COURSE – LEVEL EDUCATIONAL GOALS (OPTIONAL)

Demonstrate knowledge of classic environmental texts in their intellectual and scientific contexts, and explain why and how they have changed human understanding of the environment;

Identify and explain key conceptual, analytical and ethical advances in environmental thought;

Understand the relationships and differences between approaches to the environment in the natural sciences, the social sciences and the humanities;

Help to develop critical thinking skills amongst students in evaluating different paradigms and perspectives on environment; and

Work effectively in a team to analyze, debate and present key concepts from classic environmental texts.

RESOURCES

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

None

OTHER IMPLICATIONS

Final exam required YES NO

Criminal Record Check required YES NO

OVERLAP CHECK

Checking for overlap is the responsibility of the Associate Dean.

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

Name of Originator

Alex Clapp, FENV Associate Dean



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MEMORANDUM

ATTENTION Alex Clapp, Associate Dean, FENV **DATE** October 19, 2016
FROM Susan Rhodes,
Director, University Curriculum &
Institutional Liaison **PAGES** 1
RE: ENV B approval

The University Curriculum Office has approved **B-Hum** designation for the following proposed new course, effective Fall 2017 (1177):

ENV 100 Great Ideas in Environment

Please forward this memo to your Faculty UCC, SCUS and Senate for further approval.



**Calendar Entry Change
Faculty of Environment, Certificate in Environmental Literacy**

Rationale for change: ENV 222 will not be offered in the next two years; ENV 221 is an appropriate substitute for the Certificate’s requirement that students take one course on the complexity and interdisciplinarity of environmental issues.

A minor typographical error has been fixed as well.

Effective term and year: Spring 2017

The following program(s) will be affected by these changes:

Certificate in Environmental Literacy

Calendar Change: “to” and “from” sections are not required. All deletions should be crossed out as follows: ~~sample~~. All additions should be marked by a **bold**.

...

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 environmental issues; and a minimum of 9 units of electives chosen from one of the three elective groups.

...

Core Courses

Students complete a minimum of 21 units, including all of

~~ENV 222 – Environmental Controversy: An interdisciplinary study of environmental issues (3)~~

ENV 221 – Systems Thinking and the Environment (3)

GEOG 111 – Earth Systems (3)

...