



UNDERGRADUATE EDUCATION COMMITTEE (UEC)
January 27, 2017 - 10:00 AM
A225

AGENDA

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Page

**1. APPROVAL OF THE AGENDA**

**2. APPROVAL OF UEC MINUTES**

4 - 7      **2.1. UEC draft minutes: December 16, 2016**

MOTION: To approve the draft minutes as presented.

**3. SENATE REPORT**

**4. COURSE OUTLINES**

8 - 13      **4.1. Communications**  
              New course: CMNS 140

MOTION: To approve the CMNS 140 course outline as presented.

14 - 40      **4.2. Geography**  
              Changes including total hours: GEOG 111  
              Changes including credits and total hours: GEOG 270  
              Changes including prerequisites: GEOG 300, 311, 412  
              Review with changes including prerequisites: GEOG 362

MOTION: To approve the GEOG courses as presented.

41 - 47      **4.3. Health Sciences**  
              Change to prerequisites: HSC 116

MOTION: To approve the HSC 116 course outline as presented.

48 - 56      **4.4. Graphic and Digital Design**  
              Review with changes including total hours: GD 102  
              Changes including prerequisites: GD 204

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MOTION: To approved the GD course outlines as presented.

57 - 62

**4.5. Peace and Conflict Studies**

Changes including prerequisites: PACS 390, 391

MOTION: To approve the PACS course outlines as presented.

63 - 74

**4.6. Biology**

Change to prerequisites: BIO 201, 220

Review with changes including prerequisites: BIO 210

MOTION: To approve the BIO course outlines as presented.

**5. PROGRAMS**

75 - 84

**5.1. Biology**

Change to program requirements: Biology minor (BSc)

Change to program requirements: Biology extended minor (BA)

MOTION: To approve the changes to the Biology minor (BSc) program requirements as presented, effective September 2017.

MOTION: To approve the changes to the Biology extended minor (BA) program requirements as presented, effective September 2017.

85 - 91

**5.2. Arts**

Change to program requirements: Bachelor of Arts

Change to program requirements: Liberal Arts diploma

MOTION: To approve the changes to the Bachelor of Arts as presented, effective September 2017.

MOTION: To approve the changes to the Liberal Arts diploma as presented, effective September 2017.

92 - 94

**5.3. Social Work and Human Services**

Change to program requirements: Bachelor of Social Work

MOTION: To approve the change to the Bachelor of Social Work as presented, effective September 2017.

**6. OTHER BUSINESS/DISCUSSION ITEMS**

**6.1. Changes in B.C. high school graduation**

**6.2. Transfer Credit Subcommittee report**

**6.3. Policy Subcommittee report**

**7. INFORMATION ITEMS**

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**7.1. Biology**

Change to declaration procedure: Biology Honours

**7.2. Minor course changes** (outlines will be available at  
[www.ufv.ca/calendar/courseoutlines](http://www.ufv.ca/calendar/courseoutlines))

ENGL 308

FILM 110

104 -

105

**7.3. Course outline form**

Removal of maximum enrolment

**8. ADJOURNMENT**



**UNDERGRADUATE EDUCATION COMMITTEE (UEC) MEETING**

December 16, 2016  
10:00 AM - A225  
Abbotsford Campus

**DRAFT MINUTES**

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**PRESENT:** Adrianna Bakos, Maria Bos-Chan, Sue Brigden, Rhonda Colwell, Heather Compeau, Vlad Dvoracek, John English, Peter Geller, Ceilidh Hart, David Johnston, Bruce Kirkley, David McGuire, Samantha Patridge, Teresa Piper, Kirsten Robertson, Mary Saudelli, Eric Spalding, Arashpreet Tamber, and Ben Vandelei  
**ABSENT:** Donna Alary, Jared De Bruin, Nancy Goad, Shirley Hardman, Emilio Landolfi, and Simon Xi  
**GUESTS:** Ian Affleck, Margret Bollerup, Shelley Stefan, Hilary Turner, Frank Ulbrich, Alisa Webb  
**RECORDER:** Amanda Grimson

**1. APPROVAL OF THE AGENDA**

**2. APPROVAL OF UEC MINUTES**

2.1.UEC draft minutes: November 25, 2016

**MOTION:**

To approve the draft minutes as presented.  
CARRIED

**3. COURSE OUTLINES**

**3.1.Business**

Changes including prerequisites: BUS 245

**MOTION:**

To approve the BUS 245 course outline as presented.  
CARRIED

**3.2.Economics**

Cross-listing as GEOG 361: ECON 361

This course is past review, and should be reviewed within the next year.

**MOTION:**

To approve the ECON 361/GEOG 361 course outlines as presented.  
CARRIED

**3.3.Geography and the Environment**

Changes including cross-listing as ECON 242: GEOG 242

Review with changes including prerequisites: GEOG 440

**MOTION:**

To approve the GEOG 242/ECON 242 course outline as presented.

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CARRIED

**MOTION:**

To approve the GEOG 440 course outline as amended:

- No limit on the number of times different topics can be taken for credit.

CARRIED

**3.4.English**

Review with changes including title and prerequisites: ENGL 210

Review with changes including prerequisites: ENGL 215

**MOTION:**

To approve the ENGL course outlines as presented.

CARRIED

**3.5.Mathematics**

New course: MATH 123, Everyday Math and Stats

**MOTION:**

To approve the new MATH 123 course outline as presented.

CARRIED

**3.6.Visual Arts**

Review with changes including prerequisites: AH 204

Review with changes: FILM 120

Review with changes including title and prerequisites: VA 223

Review with changes including title: VA 224

Review with changes including prerequisites: VA 321

Review with changes: VA 322

A concern was raised over the inclusion of 15 hours of "student-directed learning" in AH 204. S. Stefan (Visual Arts department head) clarified that time that students are doing research in class, and could be added to the "seminars/tutorials/workshops" category.

S. Stefan will also confirm whether these courses should be resubmitted for transfer credit articulation, and will provide suggested textbooks for the VA courses.

**MOTION:**

To approve the AH, FILM, and VA course outlines as amended:

- AH 204 typical hours: seminars/tutorials/workshops changed from 30 to 45
- VA 223 learning outcome #7: "Demonstrate ~~an understanding of~~ the analytical skills..."

CARRIED

**4. PROGRAMS**

**4.1.Arts**

Change to entrance and program requirements: Liberal Arts diploma

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Program changes are being made to align the Liberal Arts diploma with the new Bachelor of Arts program.

Entrance requirements are being added to allow students to apply to the diploma program, which is currently only an exit credential. Students interested in a two-year credential are currently defaulting into the Associate of Arts program, which is not widely recognized internationally. The Liberal Arts diploma is preferable for an international audience, and this change will also allow for better enrollment management.

**MOTION:**

To recommend approval of the changes to the Liberal Arts diploma as presented, effective September 2017.

CARRIED

**4.2.Modern Languages**

Revisions: Framework for Proficiency certificates in Modern Languages

This framework was developed approximately 10 years ago, and now needs to be revised according to the new credential policy. This will result in a re-naming of the proficiency certificates:

- Intermediate certificates in French, Halq'emeylem, Japanese, Mandarin, Russian, and Spanish will become "Intermediate Proficiency"
- "Advanced certificates" in French, Russian, and Spanish will become "Certificates, Advanced Proficiency"

**MOTION:**

To approve the revised Framework for Proficiency certificates in Modern Languages as presented.

CARRIED

**5. OTHER BUSINESS/DISCUSSION ITEMS**

**5.1.Policy Subcommittee membership**

As one of the two members interested in the UEC member at large position withdrew, an election was not necessary. B. Kirkley was acclaimed to this position, and B. Vandelei volunteered for the additional faculty member position. This subcommittee is now complete:

- UEC Chair: Eric Spalding
- Registrar or designate: David Johnston
- Two UEC Faculty members: Teresa Arroliga Piper, Ben Vanderlei
- UEC Advisor: Simon Xi (two-year term)
- IR representative: Donna Alary
- Dean: Sue Brigden
- UEC member at large: Bruce Kirkley (two-year term)

**6. INFORMATION ITEMS**

**6.1.Trades**

Apprenticeship program: Heavy Duty Equipment Technician - Level Two

Apprenticeship program: Plumber - Level Two

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Harmonization: Welding program

**6.2.Minor course changes** (outlines will be available at  
[www.ufv.ca/calendar/courseoutlines](http://www.ufv.ca/calendar/courseoutlines))  
ENGL 208  
GD 101, 157  
GEOG 130, 344  
MATH 124

**7. ADJOURNMENT**

The meeting was adjourned at 11:56 am.

**Memo for New Course**

To: Jacqueline Nolte, CAC

From: Lynn Kirkland Harvey, CMNS Department Head

Date: October 12, 2016

**Subject: Proposal for new course Interpersonal Skills for the Workplace**

1. Rationale for new course:

In consultation with Human Services, it was determined that the outdated HSER 120 (currently included in our minor), was going to be revised to focus more on therapeutic interviewing skills relevant for Human Services. It was suggested that we design our own course to address interpersonal skills in the workplace, especially as it relates to customer/client relationships and employee/supervisor relationships. Workplace scenarios will be a focus in this course.

2. How this new course fits into program(s):

This course will replace HSER 120 as an option in our minor.

***Note:** Adding this course to a program will usually require a program change request.*

3. Explain how the course learning outcomes align with the learning outcomes of the program(s):

This course is fully aligned with this CMNS Outcome: *Model effective and professional communication skills for interpersonal, team, organizational, and culturally diverse contexts.*

4. Will this course be required by any program beyond the discipline? If so, how will this course affect that program or programs? N/A

5. Which program areas have been consulted about the course? Social Work and Human Services.

6. If a new discipline designation is required, explain why: N/A

7. What consideration has been given to indigenizing the curriculum?

This course includes content on Personal World Views, as a way of addressing a student's own perception and how it might influence their interactions with others. Indigenous elements will be included in the scenarios.

8. If this course is not eligible for PLAR, explain why: It is a process course where the students will be examining their perspectives and their influence on interpersonal skills in various scenarios.

9. Explain how each of the following will affect the budget for your area or any other area:

- a. Credit value - 3
- b. Class size limit – 28 (HSER has 24 students)
- c. Frequency of offering – every other year
- d. Resources required (labs, equipment) -- none

10. Are field trips required for this course? (Field trip requirements must be announced in the timetable.) How are the trips funded? N/A
11. Estimate of the typical costs for this course, including textbooks and other materials: \$100



ORIGINAL COURSE IMPLEMENTATION DATE: September 2017  
 REVISED COURSE IMPLEMENTATION DATE:  
 COURSE TO BE REVIEWED: (six years after UEC approval) January 2023  
 Course outline form version: 09/15/14

## OFFICIAL UNDERGRADUATE COURSE OUTLINE FORM

**Note: The University reserves the right to amend course outlines as needed without notice.**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------------------------------|----|------------------|--|------------------------|--|--------------------------------------------|--|----------------------------|--|----------------------|--|--------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Course Code and Number:</b> CMNS 140                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | <b>Number of Credits:</b> 3 <a href="#">Course credit policy (105)</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Course Full Title:</b> Interpersonal Skills for the Workplace                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Course Short Title (if title exceeds 30 characters):</b> Interpersonal Skills Workplace                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Faculty:</b> Faculty of Humanities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | <b>Department (or program if no department):</b> Communications                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Calendar Description:</b><br>An introductory course focusing on interpersonal communication primarily between two people and among small groups. Students will reflect on how their own behaviours and responses affect others. Basic skills for workplace contexts, including customer/client relationships, will be practiced and applied.                                                                                                                                                                                                                                                                                                                                                                     |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Prerequisites (or NONE):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | One of the following: C+ or better in English 12, CPT score of 48, CMNS 120, or any test score listed in the UFV Degree/diploma level English language proficiency standards.                                                                                                                                                                                                                                                                                                                                         |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Corequisites (if applicable, or NONE):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Pre/corequisites (if applicable, or NONE):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Equivalent Courses (cannot be taken for additional credit)</b><br>Former course code/number:<br>Cross-listed with:<br>Equivalent course(s):<br><i>Note: Equivalent course(s) should be included in the calendar description by way of a note that students with credit for the equivalent course(s) cannot take this course for further credit.</i>                                                                                                                                                                                                                                                                                                                                                              |           | <b>Transfer Credit</b><br>Transfer credit already exists: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>Transfer credit requested (OREg to submit to BCCAT):<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (if yes, fill in transfer credit form)<br>Resubmit revised outline for articulation: <input type="checkbox"/> Yes <input type="checkbox"/> No<br>To find out how this course transfers, see <a href="http://bctransferguide.ca">bctransferguide.ca</a> . |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Total Hours: 45</b><br><b>Typical structure of instructional hours:</b> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr><td>Lecture hours</td><td style="text-align: right;">30</td></tr> <tr><td>Seminars/tutorials/workshops</td><td style="text-align: right;">15</td></tr> <tr><td>Laboratory hours</td><td></td></tr> <tr><td>Field experience hours</td><td></td></tr> <tr><td>Experiential (practicum, internship, etc.)</td><td></td></tr> <tr><td>Online learning activities</td><td></td></tr> <tr><td>Other contact hours:</td><td></td></tr> <tr><td style="text-align: right;"><b>Total</b></td><td style="text-align: right;"><b>45</b></td></tr> </table> |           | Lecture hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 30 | Seminars/tutorials/workshops | 15 | Laboratory hours |  | Field experience hours |  | Experiential (practicum, internship, etc.) |  | Online learning activities |  | Other contact hours: |  | <b>Total</b> | <b>45</b> | <b>Special Topics</b><br>Will the course be offered with different topics?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>If yes, different lettered courses may be taken for credit:<br><input type="checkbox"/> No <input type="checkbox"/> Yes, repeat(s) <input type="checkbox"/> Yes, no limit<br><i>Note: The specific topic will be recorded when offered.</i> |  |
| Lecture hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 30        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Seminars/tutorials/workshops                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 15        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Laboratory hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Field experience hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Experiential (practicum, internship, etc.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Online learning activities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Other contact hours:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>45</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | <b>Maximum enrolment (for information only): 28</b><br><b>Expected frequency of course offerings (every semester, annually, every other year, etc.):</b> every other year                                                                                                                                                                                                                                                                                                                                             |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Department / Program Head or Director:</b> Lynn Kirkland Harvey                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | <b>Date approved:</b> August 30, 2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Faculty Council approval</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | <b>Date approved:</b> November 2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Campus-Wide Consultation (CWC)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | <b>Date of posting:</b> December 9, 2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Dean/Associate VP:</b> Jacqueline Nolte                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           | <b>Date approved:</b> November 2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Undergraduate Education Committee (UEC) approval</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | <b>Date of meeting:</b> January 27, 2017                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |    |                              |    |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |

## Learning Outcomes

Upon successful completion of this course, students will be able to:

1. Discuss the basic principles of effective interpersonal communication
2. Identify barriers to effective communication
3. Explain how their own emotions, perceptions, values, cultures and beliefs shape their personal and professional interactions
4. Demonstrate workplace etiquette
5. Analyze non-verbal communication
6. Discuss the power of language, tone, and voice in verbal communication
7. Describe the effects of technology on interpersonal communication.
8. Analyze case scenarios to determine interpersonal communication strategies
9. Demonstrate active listening and giving and receiving constructive feedback.

## Prior Learning Assessment and Recognition (PLAR)

☐ Yes ☒ No, PLAR cannot be awarded for this course because this is a process course which includes personal reflection and application of skills to a variety of scenarios.

## Typical Instructional Methods (guest lecturers, presentations, online instruction, field trips, etc.; may vary at department's discretion)

Lecture, experiential learning using case studies, demonstration of skills, role playing, recording with feedback and reflection, and group discussions.

**Grading system:** Letter Grades: ☒ Credit/No Credit: ☐ Labs to be scheduled independent of lecture hours: Yes ☐ No ☐

**NOTE: The following sections may vary by instructor. Please see course syllabus available from the instructor.**

## Typical Text(s) and Resource Materials (if more space is required, download Supplemental Texts and Resource Materials form)

| Author (surname, initials)                                    | Title (article, book, journal, etc.)                                                                                                                                 | Current ed.                         | Publisher | Year |
|---------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-----------|------|
| 1. Adler, R., Rosenfeld, L.B., Proctor II, R.F., & Winder, C. | Interplay: The process of interpersonal communication, Canadian edition                                                                                              | <input checked="" type="checkbox"/> | Oxford    | 2016 |
| 2. Robles, M.                                                 | Executive perceptions of the top 10 soft skills needed in today's workplace. <i>Business Communication Quarterly</i> , 75(4), 453-465. doi: 10.1177/1080569912460400 | <input type="checkbox"/>            |           | 2012 |
| 3. Kick, A.L, Contactos-Sawyer, J. & Thomas, B.               | How Generation Z's reliance on digital communication can affect future workplace relationships. <i>Competition Forum</i> , 13 (2), 214-222.                          | <input type="checkbox"/>            |           | 2015 |
| 4.                                                            |                                                                                                                                                                      | <input type="checkbox"/>            |           |      |
| 5.                                                            |                                                                                                                                                                      | <input type="checkbox"/>            |           |      |

## Required Additional Supplies and Materials (software, hardware, tools, specialized clothing, etc.)

## Typical Evaluation Methods and Weighting

|                |     |              |     |                   |   |            |      |
|----------------|-----|--------------|-----|-------------------|---|------------|------|
| Final exam:    | 15% | Assignments: | 75% | Midterm exam:     | % | Practicum: | %    |
| Quizzes/tests: | 10% | Lab work:    | %   | Field experience: | % | Shop work: | %    |
| Other:         | %   | Other:       | %   | Other:            | % | Total:     | 100% |

## Details (if necessary):

Assignments may include:

|                                                           |     |
|-----------------------------------------------------------|-----|
| Self-reflection paper                                     | 20% |
| Interaction critiques and analyses of workplace scenarios | 35% |
| Self-evaluations of recorded role-play exercises          | 20% |
| Quizzes/tests                                             | 10% |
| Final exam                                                | 15% |

**Typical Course Content and Topics**

1. Foundations of Interpersonal Communication
  - Interpersonal Process
  - Personal World View (perceptions, emotions, culture, etc.)
2. Creating and Responding to Messages
  - Listening and attending
  - Language
  - Non-verbals
3. Barriers to Effective Communication in the Workplace
  - Being defensive
  - Judging, giving advice, having strong opinions
  - Managing conflict
  - Managing stress and anxiety
4. Interpersonal skills and technology (Emails, texting, social media, online forms, etc.)
  - When to use technology
  - Demonstrating interpersonal skills through digital devices
5. Basic Workplace Etiquette
  - First impressions
  - Starting/ending conversations
  - Using the phone
  - Dealing with being told, or telling someone, "No"
  - Meeting etiquette
6. Giving and Receiving Feedback
  - Applying listening skills
  - Demonstrating empathy
  - Definition and application of soft skills

CMNS 140

University of the Fraser Valley Transfer Credit Request Form

## Transfer Credit Request Form

Please fill out this form if transfer credit should be requested.

| <u>Institution code</u> | <u>Full Institution name</u>                     | <u>Transfer credit exists</u> | <u>Request transfer credit</u>      |
|-------------------------|--------------------------------------------------|-------------------------------|-------------------------------------|
| AI                      | Art Institute of Vancouver                       | <input type="checkbox"/>      | <input checked="" type="checkbox"/> |
| ALEX                    | Alexander College                                | <input type="checkbox"/>      | <input checked="" type="checkbox"/> |
| ASM                     | Acsenda School of Management                     | <input type="checkbox"/>      | <input checked="" type="checkbox"/> |
| AU                      | Athabasca University                             | <input type="checkbox"/>      | <input checked="" type="checkbox"/> |
| CAPU                    | Capilano University                              | <input type="checkbox"/>      | <input checked="" type="checkbox"/> |
| CNC                     | College of New Caledonia                         | <input type="checkbox"/>      | <input checked="" type="checkbox"/> |
| COTR                    | College of the Rockies                           | <input type="checkbox"/>      | <input checked="" type="checkbox"/> |
| COLU                    | Columbia College                                 | <input type="checkbox"/>      | <input checked="" type="checkbox"/> |
| COQU                    | Coquitlam College                                | <input type="checkbox"/>      | <input checked="" type="checkbox"/> |
| DOUG                    | Douglas College                                  | <input type="checkbox"/>      | <input checked="" type="checkbox"/> |
| EC                      | Emily Carr University of Art & Design            | <input type="checkbox"/>      | <input checked="" type="checkbox"/> |
| FDU                     | Fairleigh Dickinson University                   | <input type="checkbox"/>      | <input checked="" type="checkbox"/> |
| JIBC                    | Justice Institute of BC                          | <input type="checkbox"/>      | <input checked="" type="checkbox"/> |
| KWAN                    | Kwantlen Polytechnic University                  | <input type="checkbox"/>      | <input checked="" type="checkbox"/> |
| NVIT                    | Nicola Valley Institute of Technology            | <input type="checkbox"/>      | <input checked="" type="checkbox"/> |
| NIC                     | North Island College                             | <input type="checkbox"/>      | <input checked="" type="checkbox"/> |
| NLC                     | Northern Lights College                          | <input type="checkbox"/>      | <input checked="" type="checkbox"/> |
| NWCC                    | Northwest Community College                      | <input type="checkbox"/>      | <input checked="" type="checkbox"/> |
| OC                      | Okanagan College                                 | <input type="checkbox"/>      | <input checked="" type="checkbox"/> |
| SFU                     | Simon Fraser University                          | <input type="checkbox"/>      | <input checked="" type="checkbox"/> |
| TRU                     | Thompson Rivers University                       | <input type="checkbox"/>      | <input checked="" type="checkbox"/> |
| TRU-OL                  | Thompson Rivers University, Open Learning        | <input type="checkbox"/>      | <input checked="" type="checkbox"/> |
| TWU                     | Trinity Western University                       | <input type="checkbox"/>      | <input checked="" type="checkbox"/> |
| UBC                     | University of British Columbia- Vancouver Campus | <input type="checkbox"/>      | <input checked="" type="checkbox"/> |
| UBCO                    | University of British Columbia- Okanagan Campus  | <input type="checkbox"/>      | <input checked="" type="checkbox"/> |
| UCW                     | University Canada West                           | <input type="checkbox"/>      | <input checked="" type="checkbox"/> |
| UNBC                    | University of Northern BC                        | <input type="checkbox"/>      | <input checked="" type="checkbox"/> |
| UVIC                    | University of Victoria                           | <input type="checkbox"/>      | <input checked="" type="checkbox"/> |
| VCC                     | Vancouver Community College                      | <input type="checkbox"/>      | <input checked="" type="checkbox"/> |
| VIU                     | Vancouver Island University                      | <input type="checkbox"/>      | <input checked="" type="checkbox"/> |

Visit [www.bccat.ca/articulate/additions/upperpolicy](http://www.bccat.ca/articulate/additions/upperpolicy) for a list of the institutions that will articulate upper-level courses.

For further information on identifying appropriate receiving institutions, please see the following webpage:  
[http://bccat.ca/info/handbook/pages/identifying-appropriate-receiving-institutions?in\\_handbook=241](http://bccat.ca/info/handbook/pages/identifying-appropriate-receiving-institutions?in_handbook=241)

**Memo for Course Changes**

To: Alisa Webb, Associate Dean College of Arts, Chair College of Arts Curriculum Committee

Cc: Lisa Matty, Committees Assistant (Auxiliary)

From: Steven Marsh, Department Head GATE

Date: October 21, 2016

**Subject: Proposal for revision of Geography 111, Environmental Issues and Strategies**

1. Summary of changes (select all that apply):
  - ☐ Six-year review
  - ☐ Number and/or course code
  - ☐ Credits and/or total hours
  - ☐ Title
  - ☒ Calendar description
  - ☐ Prerequisites and/or co-requisites
  - ☐ Frequency of course offering
  - ☒ Learning outcomes
  - ☒ Delivery methods and/or texts and resource materials
  - ☒ PLAR options, grading system, and/or evaluation methods
  - ☐ Discontinuation of course
  - ☐ Other – Please specify:
2. Rationale for change: The course has been updated to accommodate a problem based learning approach and indigenization of the curriculum.
3. If there are substantial changes to the learning outcomes, explain how they align with the learning outcomes of the program(s): The learning outcomes have been updated to reflect the shift to a problem based learning approach and the indigenization of the curriculum.
4. Is this course required by any program beyond the discipline? If so, how will this change affect that program or programs? The course is a core course in the proposed BES degree, but at present is only relevant to GATE.
5. Which program areas have been consulted about the change(s)? GATE
6. What consideration has been given to indigenizing the curriculum? The course will include approaches utilizing traditional knowledge and indigenous ways of knowing.
7. If this course is not eligible for PLAR, explain why:
8. If any of the following items on the official course outline have changed, explain how the change will affect the budget for your area or any other area:
  - a. Credit value
  - b. Class size limit
  - c. Frequency of offering

- d. Resources required (labs, equipment)
- 9. Are field trips required for this course? (Field trip requirements must be announced in the timetable.) How are the trips funded? Field trips maybe required. Field trips are funded 50% by the department and 50% by the students.
- 10. Estimate of the typical costs for this course, including textbooks and other materials: Approximately \$150 for text.

**CWC comments and responses:**

- Learning outcome #4 should be revised to include a measurable verb, rather than “Reflect”.  
*Students are evaluated on a reflective essay and will be included in a number of our course outlines, so I argue that reflect is measurable.*



**ORIGINAL COURSE IMPLEMENTATION DATE:** September 1993  
**REVISED COURSE IMPLEMENTATION DATE:** September 2017  
**COURSE TO BE REVIEWED:** (six years after UEC approval) January 2023  
**Course outline form version:** 09/15/14

## OFFICIAL UNDERGRADUATE COURSE OUTLINE FORM

**Note: The University reserves the right to amend course outlines as needed without notice.**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                              |    |                  |  |                        |   |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------------------------------|----|------------------|--|------------------------|---|--------------------------------------------|--|----------------------------|--|----------------------|--|--------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Course Code and Number:</b> GEOG 111                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | <b>Number of Credits:</b> 3 <a href="#">Course credit policy (105)</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |                              |    |                  |  |                        |   |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Course Full Title:</b> Environmental Issues and Strategies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                              |    |                  |  |                        |   |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Course Short Title (if title exceeds 30 characters):</b> Environ. Issues & Strategies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                              |    |                  |  |                        |   |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Faculty:</b> Faculty of Social Sciences                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           | <b>Department (or program if no department):</b> Geography and the Environment                                                                                                                                                                                                                                                                                                                                                                                                                                        |    |                              |    |                  |  |                        |   |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Calendar Description:</b><br>Contemporary environmental challenges in a global and local context. Students use citizen science and geographic methods to design a local environmental research project and identify strategies for adaptation. Please refer to the Department of Geography website for out-of-class field trip scheduling information.<br><br>Note: Field trips outside of class time may be required. Please refer to department website for field trip scheduling information.                                                                                                                                                                                                                                             |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                              |    |                  |  |                        |   |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Prerequisites (or NONE):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           | None.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |    |                              |    |                  |  |                        |   |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Corequisites (if applicable, or NONE):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                              |    |                  |  |                        |   |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Pre/corequisites (if applicable, or NONE):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                              |    |                  |  |                        |   |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Equivalent Courses (cannot be taken for additional credit)</b><br>Former course code/number:<br>Cross-listed with:<br>Equivalent course(s): <i>Note: Equivalent course(s) should be included in the calendar description by way of a note that students with credit for the equivalent course(s) cannot take this course for further credit.</i>                                                                                                                                                                                                                                                                                                                                                                                             |           | <b>Transfer Credit</b><br>Transfer credit already exists: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>Transfer credit requested (OREg to submit to BCCAT):<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (if yes, fill in transfer credit form)<br>Resubmit revised outline for articulation: <input type="checkbox"/> Yes <input type="checkbox"/> No<br>To find out how this course transfers, see <a href="http://bctransferguide.ca">bctransferguide.ca</a> . |    |                              |    |                  |  |                        |   |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Total Hours:</b> 45<br><b>Typical structure of instructional hours:</b> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr><td>Lecture hours</td><td style="text-align: right;">19</td></tr> <tr><td>Seminars/tutorials/workshops</td><td style="text-align: right;">21</td></tr> <tr><td>Laboratory hours</td><td></td></tr> <tr><td>Field experience hours</td><td style="text-align: right;">5</td></tr> <tr><td>Experiential (practicum, internship, etc.)</td><td></td></tr> <tr><td>Online learning activities</td><td></td></tr> <tr><td>Other contact hours:</td><td></td></tr> <tr><td style="text-align: right;"><b>Total</b></td><td style="text-align: right;"><b>45</b></td></tr> </table> |           | Lecture hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 19 | Seminars/tutorials/workshops | 21 | Laboratory hours |  | Field experience hours | 5 | Experiential (practicum, internship, etc.) |  | Online learning activities |  | Other contact hours: |  | <b>Total</b> | <b>45</b> | <b>Special Topics</b><br>Will the course be offered with different topics?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>If yes, different lettered courses may be taken for credit:<br><input type="checkbox"/> No <input type="checkbox"/> Yes, repeat(s) <input type="checkbox"/> Yes, no limit<br><i>Note: The specific topic will be recorded when offered.</i> |  |
| Lecture hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 19        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                              |    |                  |  |                        |   |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Seminars/tutorials/workshops                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 21        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                              |    |                  |  |                        |   |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Laboratory hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                              |    |                  |  |                        |   |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Field experience hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 5         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                              |    |                  |  |                        |   |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Experiential (practicum, internship, etc.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                              |    |                  |  |                        |   |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Online learning activities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                              |    |                  |  |                        |   |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Other contact hours:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                              |    |                  |  |                        |   |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>45</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                              |    |                  |  |                        |   |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           | <b>Maximum enrolment (for information only):</b> 36<br><b>Expected frequency of course offerings (every semester, annually, every other year, etc.):</b> every semester                                                                                                                                                                                                                                                                                                                                               |    |                              |    |                  |  |                        |   |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Department / Program Head or Director:</b> Steve Marsh                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | <b>Date approved:</b> March 24, 2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |    |                  |  |                        |   |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Faculty Council approval</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           | <b>Date approved:</b> November 2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |    |                              |    |                  |  |                        |   |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Campus-Wide Consultation (CWC)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           | <b>Date of posting:</b> December 9, 2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |    |                              |    |                  |  |                        |   |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Dean/Associate VP:</b> Jacqueline Nolte                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           | <b>Date approved:</b> November 2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |    |                              |    |                  |  |                        |   |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Undergraduate Education Committee (UEC) approval</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | <b>Date of meeting:</b> January 27, 2017                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |    |                              |    |                  |  |                        |   |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |

**Learning Outcomes**

Upon successful completion of this course, students will be able to:

- Discuss relationships between global environmental change and population, urbanization, and agriculture;
- Provide written comparison of western scientific approaches to traditional ecological knowledge accumulation;
- Identify the relative utility and effectiveness of different scientific and social scientific data collection techniques in developing an environmental research project;
- Reflect on the ethical issues associated with the collection, analysis, and utilization of data, including Traditional Ecological Knowledge.
- Integrate field observations and data collection into a group project and individual reflection on local environmental change.
- Utilize both social science and natural science approaches in written, oral, and visual explanation of environmental problems.
- Work collaboratively to use scientific analysis and observations of human use patterns in order to identify and advocate strategies for improving environmental sustainability at a local scale.

**Prior Learning Assessment and Recognition (PLAR)**

☒ Yes      ☐ No, PLAR cannot be awarded for this course because

**Typical Instructional Methods (guest lecturers, presentations, online instruction, field trips, etc.; may vary at department's discretion)**

Problem-based learning, lectures, in-class seminar exercises and fieldwork, student presentations.

**Grading system:** Letter Grades: ☒ Credit/No Credit: ☐ Labs to be scheduled independent of lecture hours: Yes ☐ No ☐

**NOTE: The following sections may vary by instructor. Please see course syllabus available from the instructor.**

**Typical Text(s) and Resource Materials (if more space is required, download Supplemental Texts and Resource Materials form)**

| Author (surname, initials)         | Title (article, book, journal, etc.)                                                                                                      | Current ed.                         | Publisher          | Year |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|--------------------|------|
| 1. Molles, M., and B. Borrell      | Environment: Science, Issues, Solutions                                                                                                   | <input checked="" type="checkbox"/> | WH Freeman and Co. | 2016 |
| 2. Govt of BC                      | BC Food and Agriculture Climate Action Adaptation, Risk, and Opportunity Assessment Series                                                | <input type="checkbox"/>            | Queen's Printer    | 2012 |
| 3. Turner, N. and H. Clifton       | 'It's so different today': Climate change and Indigenous lifeways in British Columbia, Canada. <i>Global Environmental Change</i> 19 (2). | <input type="checkbox"/>            | Journal            | 2009 |
| 4. Nature Magazine Editorial Board | The Rise of the Citizen Scientist. <i>Nature</i> August 18                                                                                | <input type="checkbox"/>            | Journal            | 2015 |

**Typical Evaluation Methods and Weighting**

|                |     |                                   |     |                  |      |
|----------------|-----|-----------------------------------|-----|------------------|------|
| Quizzes/tests: | 20% | Seminar Discussion and Exercises: | 10% | Reflective Essay | 10%  |
| Ind. Essay:    | 30% | Group Project:                    | 30% | Total:           | 100% |

**Details (if necessary):**

Reflective Essay 10%  
 Seminar Discussion and Exercises 10%  
 Citizen Science Group Project on Climate Challenge Adaptation 30%  
 Individual Essay: neighbourhood level climate adaptation assessment 30%  
 Quizzes (5-6): 20%

**Typical Course Content and Topics**

1. Introduction to course, key concepts: climate change, vulnerability, risk, and adaptation
2. The science of climate change; the hydrological cycle; invasive species
3. Bioregionalism; social connectivity and capacity for change
4. BC population histories and suburban environmental change
5. Science and uncertainty; risk analysis; field techniques and ethics in data collection
6. Mapping change: GIS and citizen science activism; mapping lab
7. Water forecasting and pollution; field techniques
8. Sustainable development; field techniques
9. Food security; thesis statement development
10. Food production and farm-level adaptation to climate changes
11. Traditional ecological knowledge and climate adaptability
12. Urbanization, infrastructure, and climate preparedness
13. Greening the city from the inside out
14. Group presentations; summary of course themes and ideas

**Memo for Course Changes**

To: Alisa Webb, Associate Dean, College of Arts

Rachael Letkeman, Committees Assistant, College of Arts

From: Steven Marsh, Department Head, GATE

Date: September 23, 2016

**Subject: Proposal for revision of Geography 270, Field Techniques in Geography and the Environment**

1. Summary of changes (select all that apply):

- ☐ Six-year review
- ☐ Number and/or course code
- ☒ Credits and/or total hours
- ☐ Title
- ☐ Calendar description
- ☐ Prerequisites and/or co-requisites
- ☐ Frequency of course offering
- ☒ Learning outcomes
- ☐ Delivery methods and/or texts and resource materials
- ☐ PLAR options, grading system, and/or evaluation methods
- ☐ Discontinuation of course
- ☐ Other – Please specify:

2. Rationale for change:

The course has been altered to mirror GEOG 470 as the course is only offered on study tours or adventures in geography trips. Second year students participate in the same field activities and complete the same assignments (although evaluated at a lower level). The total hours increase recognizes it is essentially the same as GEOG 470 as offered on tour.

3. If there are substantial changes to the learning outcomes, explain how they align with the learning outcomes of the program(s):

Learning outcomes have been altered to mirror GEOG 470 outcomes.

4. Is this course required by any program beyond the discipline? If so, how will this change affect that program or programs?

No.

5. Which program areas have been consulted about the change(s)?

N/A

6. What consideration has been given to indigenizing the curriculum?

Instructors will incorporate indigenous topics and indigenous ways of knowing into these excursions.

7. If this course is not eligible for PLAR, explain why:

N/A

8. If any of the following items on the official course outline have changed, explain how the change will affect the budget for your area or any other area:

- a. Credit value: Increase in credit to mirror GEOG 470.
- b. Class size limit
- c. Frequency of offering
- d. Resources required (labs, equipment)

9. Are field trips required for this course? (Field trip requirements must be announced in the timetable.) How are the trips funded?

It is a field based course outside of the UFV region. Costs are covered by the students.

10. Estimate of the typical costs for this course, including textbooks and other materials:

Cost will vary depending upon transportation, accommodation and food costs. Example the recent AIG to Mt. St. Helens involved an \$800 trip fee and tuition for a 5 credit course.



ORIGINAL COURSE IMPLEMENTATION DATE: September 1987  
 REVISED COURSE IMPLEMENTATION DATE: September 2017  
 COURSE TO BE REVIEWED: (six years after UEC approval) January 2023  
 Course outline form version: 09/15/14

## OFFICIAL UNDERGRADUATE COURSE OUTLINE FORM

**Note: The University reserves the right to amend course outlines as needed without notice.**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |  |                  |  |                        |    |                                            |  |                            |  |                                                |    |              |           |                                                                                                                                                                                                                                                                                                                                                                                                             |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------------------------------|--|------------------|--|------------------------|----|--------------------------------------------|--|----------------------------|--|------------------------------------------------|----|--------------|-----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Course Code and Number:</b> GEOG 270                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | <b>Number of Credits:</b> 5 <a href="#">Course credit policy (105)</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                           |    |                              |  |                  |  |                        |    |                                            |  |                            |  |                                                |    |              |           |                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| <b>Course Full Title:</b> Field Techniques in Geography and the Environment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |  |                  |  |                        |    |                                            |  |                            |  |                                                |    |              |           |                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| <b>Course Short Title (if title exceeds 30 characters):</b> Field Techniques in GATE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |  |                  |  |                        |    |                                            |  |                            |  |                                                |    |              |           |                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| <b>Faculty:</b> Faculty of Social Sciences                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | <b>Department (or program if no department):</b> Geography and the Environment                                                                                                                                                                                                                                                                                                                                                                                                                                                   |    |                              |  |                  |  |                        |    |                                            |  |                            |  |                                                |    |              |           |                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| <b>Calendar Description:</b><br><p>A field-based introduction to a variety of tools and techniques used by geographers to describe and analyze the physical and cultural landscape, and human-environment relationships. Students will complete library and field research related to a specific area of interest. This course is offered as an independent study and may, with instructor permission, be completed as part of a study tour or Adventures in Geography field excursion.</p> <p>Note: This course will be offered under different letter designations (e.g. C-Z) representing different topics. This course may be repeated for credit provided the letter designation differs.</p>                                                                                    |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |  |                  |  |                        |    |                                            |  |                            |  |                                                |    |              |           |                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| <b>Prerequisites (or NONE):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | 6 credits of 100/200-level Geography.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |    |                              |  |                  |  |                        |    |                                            |  |                            |  |                                                |    |              |           |                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| <b>Corequisites (if applicable, or NONE):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | NONE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                              |  |                  |  |                        |    |                                            |  |                            |  |                                                |    |              |           |                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| <b>Pre/corequisites (if applicable, or NONE):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | NONE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                              |  |                  |  |                        |    |                                            |  |                            |  |                                                |    |              |           |                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| <b>Equivalent Courses (cannot be taken for additional credit)</b><br>Former course code/number:<br>Cross-listed with:<br>Equivalent course(s):<br><i>Note: Equivalent course(s) should be included in the calendar description by way of a note that students with credit for the equivalent course(s) cannot take this course for further credit.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                |           | <b>Transfer Credit</b><br>Transfer credit already exists: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>Transfer credit requested (OREg to submit to BCCAT):<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (if yes, fill in transfer credit form)<br>Resubmit revised outline for articulation: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>To find out how this course transfers, see <a href="http://bctransferguide.ca">bctransferguide.ca</a> . |    |                              |  |                  |  |                        |    |                                            |  |                            |  |                                                |    |              |           |                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| <b>Total Hours: 92</b><br><b>Typical structure of instructional hours:</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Lecture hours</td> <td style="text-align: center;">12</td> </tr> <tr> <td>Seminars/tutorials/workshops</td> <td></td> </tr> <tr> <td>Laboratory hours</td> <td></td> </tr> <tr> <td>Field experience hours</td> <td style="text-align: center;">50</td> </tr> <tr> <td>Experiential (practicum, internship, etc.)</td> <td></td> </tr> <tr> <td>Online learning activities</td> <td></td> </tr> <tr> <td>Other contact hours: Student directed learning</td> <td style="text-align: center;">30</td> </tr> <tr> <td style="text-align: right;"><b>Total</b></td> <td style="text-align: center;"><b>92</b></td> </tr> </table> |           | Lecture hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 12 | Seminars/tutorials/workshops |  | Laboratory hours |  | Field experience hours | 50 | Experiential (practicum, internship, etc.) |  | Online learning activities |  | Other contact hours: Student directed learning | 30 | <b>Total</b> | <b>92</b> | <b>Special Topics</b><br>Will the course be offered with different topics?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>If yes, different lettered courses may be taken for credit:<br><input type="checkbox"/> No <input type="checkbox"/> Yes, repeat(s) <input checked="" type="checkbox"/> Yes, no limit<br><i>Note: The specific topic will be recorded when offered.</i> |  |
| Lecture hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 12        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |  |                  |  |                        |    |                                            |  |                            |  |                                                |    |              |           |                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| Seminars/tutorials/workshops                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |  |                  |  |                        |    |                                            |  |                            |  |                                                |    |              |           |                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| Laboratory hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |  |                  |  |                        |    |                                            |  |                            |  |                                                |    |              |           |                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| Field experience hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 50        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |  |                  |  |                        |    |                                            |  |                            |  |                                                |    |              |           |                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| Experiential (practicum, internship, etc.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |  |                  |  |                        |    |                                            |  |                            |  |                                                |    |              |           |                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| Online learning activities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |  |                  |  |                        |    |                                            |  |                            |  |                                                |    |              |           |                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| Other contact hours: Student directed learning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 30        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |  |                  |  |                        |    |                                            |  |                            |  |                                                |    |              |           |                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>92</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |  |                  |  |                        |    |                                            |  |                            |  |                                                |    |              |           |                                                                                                                                                                                                                                                                                                                                                                                                             |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | <b>Maximum enrolment (for information only):</b> 6<br><b>Expected frequency of course offerings (every semester, annually, every other year, etc.):</b> On demand                                                                                                                                                                                                                                                                                                                                                                |    |                              |  |                  |  |                        |    |                                            |  |                            |  |                                                |    |              |           |                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| <b>Department / Program Head or Director:</b> Steven Marsh                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | <b>Date approved:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |    |                              |  |                  |  |                        |    |                                            |  |                            |  |                                                |    |              |           |                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| <b>Faculty Council approval</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | <b>Date approved:</b> November 2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |    |                              |  |                  |  |                        |    |                                            |  |                            |  |                                                |    |              |           |                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| <b>Campus-Wide Consultation (CWC)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           | <b>Date of posting:</b> December 9, 2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |    |                              |  |                  |  |                        |    |                                            |  |                            |  |                                                |    |              |           |                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| <b>Dean/Associate VP:</b> Dr. Jacqueline Nolte                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | <b>Date approved:</b> November 2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |    |                              |  |                  |  |                        |    |                                            |  |                            |  |                                                |    |              |           |                                                                                                                                                                                                                                                                                                                                                                                                             |  |
| <b>Undergraduate Education Committee (UEC) approval</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | <b>Date of meeting:</b> January 27, 2017                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |    |                              |  |                  |  |                        |    |                                            |  |                            |  |                                                |    |              |           |                                                                                                                                                                                                                                                                                                                                                                                                             |  |

## Learning Outcomes

Upon successful completion of this course, students will be able to:

- Evaluate and select the appropriate research techniques or methods needed for completing a research project in geography;
- Utilize data collection and analysis skills in the planning, design, and execution of field research projects;
- operate a variety of field equipment commonly used in physical geography;
- Combine primary and secondary source information into visual, written, or oral presentations;
- Identify the larger significance of their case study and field research, as well as the transferability of their research designs and findings to new research situations.
- Critically define and discuss the geographic character and boundaries of a region under study.
- Maintain a field journal, make relevant observations, and support the journal with appropriate visual evidence collected in the field.
- Work effectively and collaboratively in a non-local and potentially foreign environment.

## Prior Learning Assessment and Recognition (PLAR)

☒ Yes      ☐ No, PLAR cannot be awarded for this course because

## Typical Instructional Methods (guest lecturers, presentations, online instruction, field trips, etc.; may vary at department's discretion)

Limited lecture is used for this course. Emphasis is on field exercises and data collection used in geography. Course is primarily used for study tour participation or field excursions, and results in a reporting of findings in visual and written form.

**Grading system:** Letter Grades: ☒ Credit/No Credit: ☐ Labs to be scheduled independent of lecture hours: Yes ☐ No ☒

**NOTE: The following sections may vary by instructor. Please see course syllabus available from the instructor.**

## Typical Text(s) and Resource Materials (if more space is required, download Supplemental Texts and Resource Materials form)

| Author (surname, initials) | Title (article, book, journal, etc.)                          | Current ed.              | Publisher                   | Year |
|----------------------------|---------------------------------------------------------------|--------------------------|-----------------------------|------|
| 1. Abbey, Edward           | Desert Solitaire: A Season in the Wilderness                  | <input type="checkbox"/> | Press                       | 1968 |
| 2. Folliot, P. & Davis, O. | Natural Environments of Arizona                               | <input type="checkbox"/> | University of Arizona Press | 2008 |
| 3. Pyne, S.                | How the Canyon Became Grand: A Short History                  | <input type="checkbox"/> | Penguin Books               | 1999 |
| 4. Reisner, M.             | Cadillac Desert: The American West and its Disappearing Water | <input type="checkbox"/> |                             | 1982 |
| 5.                         |                                                               | <input type="checkbox"/> |                             |      |

## Required Additional Supplies and Materials (software, hardware, tools, specialized clothing, etc.)

Supplies required are specific to research project and/or study tour.

Example 1: Materials and supplies required for the Mt. St. Helens and Channeled Scablands Adventures in Geography study tour have included:

- Reading List
- Carry-on sized suitcase or backpack (approx. 55 cm x 23 cm x 40 cm)
- Daypack (waterproof)
- TWO (2) water bottles (should be larger than 500ml)
- Rain jacket and rain pants
- Rite-in-rain books (available at UFV bookstore)
- Hiking boots (high-ankles are recommended)
- Sleeping bag
- Small pillow
- Camera with extra batteries and film/memory card (cell phone photos are not acceptable)
- Sunscreen
- Insect repellent
- Passport
- Photocopy of passport or driver's license and birth certificate
- Fleece jacket or similar
- Hat and gloves (could be chilly)
- Mess kit (non-breakable plate, bowl, mug, and cutlery)
- Flashlight/lantern
- Personal gear (including medications etc.)
- Spending money (US funds)

Locally-based and completed research projects developed as part of GEOG 270 would likely require most items above, except for those related to long-distance travel.

**Typical Evaluation Methods and Weighting**

|                |     |                                      |     |                      |     |                                    |      |
|----------------|-----|--------------------------------------|-----|----------------------|-----|------------------------------------|------|
| Final exam:    | %   | Assignments:                         | %   | Midterm exam:        | %   | Practicum:                         | %    |
| Quizzes/tests: | %   | Lab work:                            | %   | Reading Reviews (2): | 30% | Data Analysis and Summary Reports: | 30%  |
| Participation: | 10% | Journal (including data collection): | 20% | Reflective Essay:    | 10% | Total:                             | 100% |

**Details (if necessary):**

**Typical Course Content and Topics**

When completed as part of a study tour, GEOG 270 course content may include:

- Pre-trip meetings that cover an introduction to the region under study and its major issues;
- Identification of themes related to research project;
- Discussion of library techniques needed for hypothesis development;
- Discussion of field techniques appropriate to the research project, and the reporting structure for the research findings;
- Travel to research locations, and collection of data (usually through observation, photography, journals, subject counts, etc.);
- Compilation of research and presentation.

Field Studies are conducted in different world regions. GEOG 270 is designated with letters to indicate the subject region:

| <b>Course</b> | <b>Title</b>                                                                        |
|---------------|-------------------------------------------------------------------------------------|
| GEOG 270      | Field Techniques in Geography and the Environment                                   |
| GEOG 270A     | Field Techniques in Geography and the Environment: South America                    |
| GEOG 270B     | Field Techniques in Geography and the Environment: British Columbia                 |
| GEOG 270C     | Field Techniques in Geography and the Environment: Hawaii and the Pacific           |
| GEOG 270D     | Field Techniques in Geography and the Environment: East Asia                        |
| GEOG 270E     | Field Techniques in Geography and the Environment: Pacific Northwest                |
| GEOG 270F     | Field Techniques in Geography and the Environment: Australasia                      |
| GEOG 270G     | Field Techniques in Geography and the Environment: Europe                           |
| GEOG 270H     | Field Techniques in Geography and the Environment: American West/Hawaii             |
| GEOG 270I     | Field Techniques in Geography and the Environment: South Asia                       |
| GEOG 270J     | Field Techniques in Geography and the Environment: National Parks                   |
| GEOG 270K     | Field Techniques in Geography and the Environment: Mexico and Central America       |
| GEOG 270L     | Field Techniques in Geography and the Environment: Great Lakes/Central Canada       |
| GEOG 270M     | Field Techniques in Geography and the Environment: Atlantic Canada                  |
| GEOG 270N     | Field Techniques in Geography and the Environment: United States                    |
| GEOG 270O     | Field Techniques in Geography and the Environment: Western Canada                   |
| GEOG 270P     | Field Techniques in Geography and the Environment: Western Europe                   |
| GEOG 270Q     | Field Techniques in Geography and the Environment: Southern Europe                  |
| GEOG 270R     | Field Techniques in Geography and the Environment: Eastern Europe                   |
| GEOG 270S     | Field Techniques in Geography and the Environment: Russia                           |
| GEOG 270T     | Field Techniques in Geography and the Environment: Southwest Asia/Middle East       |
| GEOG 270U     | Field Techniques in Geography and the Environment: Southeast Asia                   |
| GEOG 270V     | Field Techniques in Geography and the Environment: Canada                           |
| GEOG 270W     | Field Techniques in Geography and the Environment: Sub-Saharan Africa               |
| GEOG 270X     | Field Techniques in Geography and the Environment: East Africa                      |
| GEOG 270Y     | Field Techniques in Geography and the Environment: Circumpolar North/Canada's North |

**Memo for Course Changes**

To: Alisa Webb Associate Dean, College of Arts

Rachael Letkeman Committees Assistant, College of Arts

From: Steven Marsh Department Head, GATE

Date: September 23, 2016

**Subject: Proposal for revision of GEOG 300: Special Topics in Geography**

1. Summary of changes (select all that apply):

- ☐ Six-year review
- ☐ Number and/or course code
- ☐ Credits and/or total hours
- ☐ Title
- ☒ Calendar description
- ☒ Prerequisites and/or co-requisites
- ☐ Frequency of course offering
- ☐ Learning outcomes
- ☐ Delivery methods and/or texts and resource materials
- ☐ PLAR options, grading system, and/or evaluation methods
- ☐ Discontinuation of course
- ☐ Other – Please specify:

2. Rationale for change:

The prerequisites have been altered to allow easier access for students from other programs to take our special topics course. The calendar description has been reduced to be less than 40 words.

3. If there are substantial changes to the learning outcomes, explain how they align with the learning outcomes of the program(s):

The learning outcomes have not been altered.

4. Is this course required by any program beyond the discipline? If so, how will this change affect that program or programs?

No.

5. Which program areas have been consulted about the change(s)?

Biology, Criminology, and Business have been consulted for future special topics offerings.

6. What consideration has been given to indigenizing the curriculum?  
Instructors will incorporate indigenous topics and indigenous ways of knowing into these special topic offerings.
7. If this course is not eligible for PLAR, explain why:  
N/A
8. If any of the following items on the official course outline have changed, explain how the change will affect the budget for your area or any other area:
  - a. Credit value:
  - b. Class size limit
  - c. Frequency of offering
  - d. Resources required (labs, equipment)
9. Are field trips required for this course? (Field trip requirements must be announced in the timetable.) How are the trips funded?  
Field trips are dependent upon the special topic and cost will be covered 50% by the department and 50% by the students.
10. Estimate of the typical costs for this course, including textbooks and other materials:  
Textbooks will vary depending on instructor but most often will include online materials.

**CWC comments and responses:**

- Would the department consider retaining the interim prerequisite (“45 university-level credits or any two 200-level GEOG courses”) instead of changing to require 45 credits?  
*Will go with the interim but this change reduces dramatically the number of waivers for students from other programs to take our special topics courses.*



ORIGINAL COURSE IMPLEMENTATION DATE: September 2007  
 REVISED COURSE IMPLEMENTATION DATE: September 2017  
 COURSE TO BE REVIEWED: (six years after UEC approval) January 2023  
 Course outline form version: 09/15/14

## OFFICIAL UNDERGRADUATE COURSE OUTLINE FORM

**Note: The University reserves the right to amend course outlines as needed without notice.**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |    |                  |  |                        |   |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------------------------------|----|------------------|--|------------------------|---|--------------------------------------------|--|----------------------------|--|----------------------|--|--------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Course Code and Number:</b> GEOG 300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | <b>Number of Credits:</b> 4 <a href="#">Course credit policy (105)</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                           |    |                              |    |                  |  |                        |   |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
| <b>Course Full Title:</b> Special Topics in Geography                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |    |                  |  |                        |   |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
| <b>Course Short Title (if title exceeds 30 characters):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |    |                  |  |                        |   |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
| <b>Faculty:</b> Faculty of Social Sciences                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | <b>Department (or program if no department):</b> Geography and the Environment                                                                                                                                                                                                                                                                                                                                                                                                                                                   |    |                              |    |                  |  |                        |   |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
| <b>Calendar Description:</b><br><p>An opportunity to explore a topic or subfield in a new and significant area of geographical research and scholarship. Topics will be chosen from a wide range of physical, human, regional, and technical areas in geography. Field trips outside of class time may be required. Please refer to department website for field trip scheduling information.</p> <p>Note: This course will be offered under different letter designations (e.g. C-Z) representing different topics. This course may be repeated for credit provided the letter designation differs.</p>                                                                                                                                               |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |    |                  |  |                        |   |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
| <b>Prerequisites (or NONE):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | 45 university-level credits or any two 200-level Geography courses. Note: As of January 2018, prerequisites will change to the following: 45 university-level credits.                                                                                                                                                                                                                                                                                                                                                           |    |                              |    |                  |  |                        |   |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
| <b>Corequisites (if applicable, or NONE):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           | NONE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                              |    |                  |  |                        |   |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
| <b>Pre/corequisites (if applicable, or NONE):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           | NONE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                              |    |                  |  |                        |   |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
| <b>Equivalent Courses (cannot be taken for additional credit)</b><br>Former course code/number:<br>Cross-listed with:<br>Equivalent course(s):<br><i>Note: Equivalent course(s) should be included in the calendar description by way of a note that students with credit for the equivalent course(s) cannot take this course for further credit.</i>                                                                                                                                                                                                                                                                                                                                                                                                 |           | <b>Transfer Credit</b><br>Transfer credit already exists: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>Transfer credit requested (OREg to submit to BCCAT):<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (if yes, fill in transfer credit form)<br>Resubmit revised outline for articulation: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>To find out how this course transfers, see <a href="http://bctransferguide.ca">bctransferguide.ca</a> . |    |                              |    |                  |  |                        |   |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
| <b>Total Hours: 60</b><br><b>Typical structure of instructional hours:</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Lecture hours</td> <td style="text-align: right;">24</td> </tr> <tr> <td>Seminars/tutorials/workshops</td> <td style="text-align: right;">28</td> </tr> <tr> <td>Laboratory hours</td> <td></td> </tr> <tr> <td>Field experience hours</td> <td style="text-align: right;">8</td> </tr> <tr> <td>Experiential (practicum, internship, etc.)</td> <td></td> </tr> <tr> <td>Online learning activities</td> <td></td> </tr> <tr> <td>Other contact hours:</td> <td></td> </tr> <tr> <td style="text-align: right;"><b>Total</b></td> <td style="text-align: right;"><b>60</b></td> </tr> </table> |           | Lecture hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 24 | Seminars/tutorials/workshops | 28 | Laboratory hours |  | Field experience hours | 8 | Experiential (practicum, internship, etc.) |  | Online learning activities |  | Other contact hours: |  | <b>Total</b> | <b>60</b> | <b>Special Topics</b><br>Will the course be offered with different topics?<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br><b>If yes, different lettered courses may be taken for credit:</b><br><input type="checkbox"/> No <input type="checkbox"/> Yes, repeat(s) <input checked="" type="checkbox"/> Yes, no limit<br><i>Note: The specific topic will be recorded when offered.</i> |  |
| Lecture hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 24        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |    |                  |  |                        |   |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
| Seminars/tutorials/workshops                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 28        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |    |                  |  |                        |   |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
| Laboratory hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |    |                  |  |                        |   |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
| Field experience hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 8         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |    |                  |  |                        |   |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
| Experiential (practicum, internship, etc.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |    |                  |  |                        |   |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
| Online learning activities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |    |                  |  |                        |   |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
| Other contact hours:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |    |                  |  |                        |   |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
| <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>60</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |    |                  |  |                        |   |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | <b>Maximum enrolment (for information only):</b> 28<br><b>Expected frequency of course offerings (every semester, annually, every other year, etc.):</b> Once every year                                                                                                                                                                                                                                                                                                                                                         |    |                              |    |                  |  |                        |   |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
| <b>Department / Program Head or Director:</b> Steven Marsh                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | <b>Date approved:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |    |                              |    |                  |  |                        |   |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
| <b>Faculty Council approval</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | <b>Date approved:</b> November 2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |    |                              |    |                  |  |                        |   |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
| <b>Campus-Wide Consultation (CWC)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | <b>Date of posting:</b> December 9, 2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |    |                              |    |                  |  |                        |   |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
| <b>Dean/Associate VP:</b> Dr. Jacqueline Nolte                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | <b>Date approved:</b> November 2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |    |                              |    |                  |  |                        |   |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                                    |  |
| <b>Undergraduate Education Committee (UEC) approval</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | <b>Date of meeting:</b> January 27, 2017                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |    |                              |    |                  |  |                        |   |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                                    |  |

## Learning Outcomes

Upon successful completion of this course, students will be able to:

1. Describe the subject matter's place within and relevance to the field of Geography.
2. Provide written and verbal explanation of the core concepts of the topic of study.
3. Critically examine the geographer's approach to the subject, with particular emphasis on methods, theory, and applications.
4. Utilize field and library research techniques within the specific field of study.
5. Work collaboratively to identify a research question, and to investigate and present the findings of a research process.
6. Identify and integrate primary and secondary data as part of a larger research project.

## Prior Learning Assessment and Recognition (PLAR)

☒ Yes      ☐ No, PLAR cannot be awarded for this course because

## Typical Instructional Methods (guest lecturers, presentations, online instruction, field trips, etc.; may vary at department's discretion)

GEOG 300 is primarily a lecture and seminar course. Students will be expected to read a sizable portion of the course reading list, critically research, assess, and summarize material, and present reflections and conclusions in class. Depending on course content, fieldwork will likely be expected. Depending on course content, lab work may also be required.

**Grading system:** Letter Grades: ☒ Credit/No Credit: ☐ Labs to be scheduled independent of lecture hours: Yes ☐ No ☒

**NOTE:** See below - The following sections may vary by instructor. Please see course syllabus available from the instructor.

## Typical Text(s) and Resource Materials (if more space is required, download Supplemental Texts and Resource Materials form)

| Author (surname, initials)           | Title (article, book, journal, etc.)           | Current ed. | Publisher   | Year |
|--------------------------------------|------------------------------------------------|-------------|-------------|------|
| Craighead, F. and C.L. Convis, (eds) | Conservation Planning: Shaping the Future      |             | Esri Press  | 2013 |
| Carr, M.H. and P.D. Zwick            | Smart Land-Use Analysis. The LUCIS Model       |             | Esri Press  | 2007 |
| Scally, R.                           | GIS for Environmental Management               |             | Esri Press  | 2006 |
| Chang, K.                            | Introduction to Geographic Information Systems |             | McGraw-Hill | 2011 |

## Required Additional Supplies and Materials (software, hardware, tools, specialized clothing, etc.)

Courses in Geography may have mandatory field trips with additional fees. Details are available on course outlines distributed in class.

## Typical Evaluation Methods and Weighting

|                |     |                         |     |                   |     |            |      |
|----------------|-----|-------------------------|-----|-------------------|-----|------------|------|
| Final exam:    | 15% | Assignments:            | 25% | Midterm exam:     | 10% | Practicum: | %    |
| Quizzes/tests: | 25% | Lab work:               | %   | Field experience: | %   | Shop work: | %    |
| group project: | 25% | Research report/poster: | %   | Field report:     | %   | Total:     | 100% |

**Details (if necessary):** Evaluation for this course will vary according to instructor and course subject matter.

## Typical Course Content and Topics

GEOG 300J: Conservation Geographic Information Systems

1. Introduction to course and requirements
2. Integrating conservation planning with human communities, ecosystem, and economics
3. Scale and conservation planning
4. Land cover data: the foundation for conservation planning
5. Integrating land use and landscape change with conservation planning
6. Selecting species as targets for conservation planning
7. Identification and assessment of habitat quality for conservation of terrestrial animals
8. Marine and freshwater conservation planning: from representation to persistence
9. Identification and mapping of habitat cores
10. Assessing habitat connectivity
11. Presentations

Lab No. 1: Using ArcGIS to examine protected areas in relation to hotspot biodiversity and endemism.

Lab No. 2: Identifying overlap in areas used for subsistence hunting of Sitka black-tailed deer by residents of Hoonah, Elfin Cove and Pelican using ArcGIS.

Lab No. 3: Vegetation assessment of a research natural area in the Okanagan National Forest.

Lab No. 4: Use of ArcGIS to determine environmental impacts of a proposed timber sale on national forest lands of Granite Mountain.

Lab No. 5: Examining land use and housing density patterns in the Willamette Valley in Oregon.

Lab No. 6: Visualizing grizzly bear recovery zones, through bear sightings and loss of roadless lands (Part 1).

Lab No. 7: Visualizing grizzly bear recovery zones, through bear sightings and loss of roadless lands (Part 2).

Lab No. 8: Visualizing how salmonids integrate the cumulative effects of environmental change through ArcGIS.

Lab No. 9: Predicting wetland areas with spatial analysis and modeling.

Lab No. 10: Predicting wildlife habitat suitability with spatial analysis/modeling.

**Memo for Course Changes**

To: Alisa Webb, Associate Dean of Arts, Chair College of Arts Curriculum Committee

Cc: Lisa Matty, Committees Assistant (Auxiliary), Amanda Grimson, UEC Assistant

From: Steven Marsh, Department Head

Date: 2016 August

**Subject: Proposal for revision of GEOGRAPHY 311**

1. Summary of changes (select all that apply):

- ☐ Six-year review
- ☐ Number and/or course code
- ☐ Credits and/or total hours
- ☐ Title
- ☒ Calendar description
- ☒ Prerequisites and/or co-requisites
- ☐ Frequency of course offering
- ☒ Learning outcomes
- ☐ Delivery methods and/or texts and resource materials
- ☐ PLAR options, grading system, and/or evaluation methods
- ☐ Discontinuation of course
- ☒ Other – Please specify: Sample content, assessment, and readings

2. Rationale for change:

**This course is being revised after a request to consider Agriculture courses as a pre-requisite, so that students in the BAS would be able to move from the diploma into 3<sup>rd</sup> year courses such as this. Additional pre-reqs were changed to also accommodate two other new programs—Indigenous Studies and Peace and Conflict Studies. The word count requirement forced me to revise the calendar copy. I've updated content and readings (selected), and made minor modifications to a learning outcome.**

3. If there are substantial changes to the learning outcomes, explain how they align with the learning outcomes of the program(s):

Only minor change made

4. Is this course required by any program beyond the discipline? If so, how will this change affect that program or programs?

**No, but it is an elective within the BAS degree**

5. Which program areas have been consulted about the change(s)?

**The request for change was made by the Program Development Office on behalf of Agriculture. No other programs have been consulted.**

6. What consideration has been given to indigenizing the curriculum?

**The course already included Indigenous subject matter and discussion of methodologies, ethics, and TEK at several points. Additions to the readings and course content show this is better detail, although it is not always explicit. Discussions of participatory research and ethical research practice, for instance, require as well questions related to Indigenous-settler relations.**

7. If this course is not eligible for PLAR, explain why: **N/A**

8. If any of the following items on the official course outline have changed, explain how the change will affect the budget for your area or any other area:

- a. Credit value
- b. Class size limit
- c. Frequency of offering
- d. Resources required (labs, equipment)

**N/A**

9. Are field trips required for this course? (Field trip requirements must be announced in the timetable.) How are the trips funded?

**N/A**

10. Estimate of the typical costs for this course, including textbooks and other materials:

**None. All required readings are available on-line as e-books.**

**CWC comments and responses:**

- With such a broad range of courses listed in the prerequisites, would the department consider changing this to “45 university-level credits” instead?  
*The usual course instructor prefers this list which is directed at specific programs.*



ORIGINAL COURSE IMPLEMENTATION DATE: January 2002  
 REVISED COURSE IMPLEMENTATION DATE: September 2017  
 COURSE TO BE REVIEWED: (six years after UEC approval) January 2023  
 Course outline form version: 09/15/14

## OFFICIAL UNDERGRADUATE COURSE OUTLINE FORM

Note: The University reserves the right to amend course outlines as needed without notice.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |    |                  |  |                        |  |                                            |  |                            |   |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------------------------------|----|------------------|--|------------------------|--|--------------------------------------------|--|----------------------------|---|----------------------|--|--------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Course Code and Number:</b> GEOG 311                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | <b>Number of Credits:</b> 4 <a href="#">Course credit policy (105)</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                           |    |                              |    |                  |  |                        |  |                                            |  |                            |   |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Course Full Title:</b> Global Resources and the Environment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |    |                  |  |                        |  |                                            |  |                            |   |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Course Short Title (if title exceeds 30 characters):</b> Global Resources and Environment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |    |                  |  |                        |  |                                            |  |                            |   |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Faculty:</b> Faculty of Social Sciences                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |           | <b>Department (or program if no department):</b> Geography and the Environment                                                                                                                                                                                                                                                                                                                                                                                                                                                   |    |                              |    |                  |  |                        |  |                                            |  |                            |   |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Calendar Description:</b><br>Investigation of relationships between communities, markets, and the environment in the management of natural resources. Consideration of how global markets influence spatial patterns of energy and resource development, the use of common pool resources, environmental assessment, and sustainable planning principles.                                                                                                                                                                                                                                                                                                                                                                  |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |    |                  |  |                        |  |                                            |  |                            |   |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Prerequisites (or NONE):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | One of the following: AGRI 204, AGRI 247, AGRI 272, AGRI 371, GEOG 211, GEOG 219, GEOG 240, GEOG 242, GEOG 257/CMNS 257, BIO 210, BIO 219, ECON 100, ECON 101, IPK 331, IPK 344, IPK 386, PACS 210, or PACS 310.                                                                                                                                                                                                                                                                                                                 |    |                              |    |                  |  |                        |  |                                            |  |                            |   |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Corequisites (if applicable, or NONE):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                              |    |                  |  |                        |  |                                            |  |                            |   |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Pre/corequisites (if applicable, or NONE):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | None                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                              |    |                  |  |                        |  |                                            |  |                            |   |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Equivalent Courses (cannot be taken for additional credit)</b><br>Former course code/number:<br>Cross-listed with:<br>Equivalent course(s):<br><i>Note: Equivalent course(s) should be included in the calendar description by way of a note that students with credit for the equivalent course(s) cannot take this course for further credit.</i>                                                                                                                                                                                                                                                                                                                                                                        |           | <b>Transfer Credit</b><br>Transfer credit already exists: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>Transfer credit requested (OREg to submit to BCCAT):<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (if yes, fill in transfer credit form)<br>Resubmit revised outline for articulation: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>To find out how this course transfers, see <a href="http://bctransferguide.ca">bctransferguide.ca</a> . |    |                              |    |                  |  |                        |  |                                            |  |                            |   |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Total Hours: 0</b><br><b>Typical structure of instructional hours:</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Lecture hours</td><td style="text-align: right;">20</td></tr> <tr><td>Seminars/tutorials/workshops</td><td style="text-align: right;">35</td></tr> <tr><td>Laboratory hours</td><td></td></tr> <tr><td>Field experience hours</td><td></td></tr> <tr><td>Experiential (practicum, internship, etc.)</td><td></td></tr> <tr><td>Online learning activities</td><td style="text-align: right;">5</td></tr> <tr><td>Other contact hours:</td><td></td></tr> <tr><td style="text-align: right;"><b>Total</b></td><td style="text-align: right;"><b>60</b></td></tr> </table> |           | Lecture hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 20 | Seminars/tutorials/workshops | 35 | Laboratory hours |  | Field experience hours |  | Experiential (practicum, internship, etc.) |  | Online learning activities | 5 | Other contact hours: |  | <b>Total</b> | <b>60</b> | <b>Special Topics</b><br>Will the course be offered with different topics?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>If yes, different lettered courses may be taken for credit:<br><input type="checkbox"/> No <input type="checkbox"/> Yes, repeat(s) <input type="checkbox"/> Yes, no limit<br><i>Note: The specific topic will be recorded when offered.</i> |  |
| Lecture hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 20        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |    |                  |  |                        |  |                                            |  |                            |   |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Seminars/tutorials/workshops                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 35        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |    |                  |  |                        |  |                                            |  |                            |   |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Laboratory hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |    |                  |  |                        |  |                                            |  |                            |   |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Field experience hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |    |                  |  |                        |  |                                            |  |                            |   |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Experiential (practicum, internship, etc.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |    |                  |  |                        |  |                                            |  |                            |   |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Online learning activities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 5         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |    |                  |  |                        |  |                                            |  |                            |   |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Other contact hours:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |    |                  |  |                        |  |                                            |  |                            |   |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>60</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |    |                  |  |                        |  |                                            |  |                            |   |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | <b>Maximum enrolment (for information only):</b> 28<br><b>Expected frequency of course offerings (every semester, annually, every other year, etc.):</b> Annually                                                                                                                                                                                                                                                                                                                                                                |    |                              |    |                  |  |                        |  |                                            |  |                            |   |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Department / Program Head or Director:</b> Steve Marsh                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | <b>Date approved:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |    |                              |    |                  |  |                        |  |                                            |  |                            |   |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Faculty Council approval</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | <b>Date approved:</b> November 2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |    |                              |    |                  |  |                        |  |                                            |  |                            |   |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Campus-Wide Consultation (CWC)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | <b>Date of posting:</b> December 9, 2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |    |                              |    |                  |  |                        |  |                                            |  |                            |   |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Dean/Associate VP:</b> Jacqueline Nolte                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |           | <b>Date approved:</b> November 2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |    |                              |    |                  |  |                        |  |                                            |  |                            |   |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Undergraduate Education Committee (UEC) approval</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | <b>Date of meeting:</b> January 27, 2017                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |    |                              |    |                  |  |                        |  |                                            |  |                            |   |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |

**Learning Outcomes**

Upon successful completion of this course, students will be able to:

1. Apply concepts and theories from economics and economic geography to the study of how a natural resource is produced and managed.
2. Critically analyze the arguments involved in the management of commons and non-commons resources.
3. Provide argument for integrative, interdisciplinary, and multi-scalar approaches to problem-solving in resource management.
4. Identify flows of resource use and consumption for particular commodities.
5. Identify appropriate academic and non-academic sources for information on topics within resource geography, and how to critically utilize these sources in a research project.
6. Clearly convey the findings of one's research on a resource industry to a general audience.

**Prior Learning Assessment and Recognition (PLAR)**

☒ Yes      ☐ No, PLAR cannot be awarded for this course because

**Typical Instructional Methods (guest lecturers, presentations, online instruction, field trips, etc.; may vary at department's discretion)**

The format of the course may include lectures, assigned readings, discussion groups, oral presentations, and field trips. Particular emphasis is placed on student participation in seminars, group presentations, and field trips. Audio-visual materials and case studies will be used to support lecture material.

**Grading system:** Letter Grades: ☒ Credit/No Credit: ☐ Labs to be scheduled independent of lecture hours: Yes ☐ No ☐

**NOTE: The following sections may vary by instructor. Please see course syllabus available from the instructor.**

**Typical Text(s) and Resource Materials (if more space is required, download Supplemental Texts and Resource Materials form)**

|    | Author (surname, initials) | Title (article, book, journal, etc.)                                                                                             | Current ed.              | Publisher                   | Year |
|----|----------------------------|----------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------------------------|------|
| 1. | Armitage, Derek            | Adaptive Capacity and Environmental Governance                                                                                   | <input type="checkbox"/> | London                      | 2010 |
| 2. | Hackett, S.                | Environmental and Natural Resource Economics                                                                                     | <input type="checkbox"/> |                             | 2005 |
| 3. | Hayter, R.                 | Flexible Crossroads: The Restructuring of BC/s Forest Economy                                                                    | <input type="checkbox"/> | UBC, Vancouver              | 2000 |
| 4. | Kurlansky, M.              | Cod: A Biography of a Fish that Changed the World                                                                                | <input type="checkbox"/> |                             | 1998 |
| 5. | Ostrom, E et al            | Drama of the Commons. National Academe Press                                                                                     | <input type="checkbox"/> |                             | 2002 |
| 6. | Holley and Mitcham         | The Pebble Mine Dialogue: A case study in public engagement and the social license to operate.                                   |                          | <i>Resources Policy</i>     | 2016 |
| 7  | McCreary and Milligan      | Pipelines, permits, and protests: Carrier Sekani encounters with the Enbridge Northern Gateway Project.                          |                          | <i>Cultural Geographies</i> | 2014 |
| 8  | Kershaw et al              | An Argument for Ethical Physical Geography Research on Indigenous Landscapes in Canada.                                          |                          | <i>Canadian Geographer</i>  | 2014 |
| 9  | Silver, J                  | Neoliberalizing Coastal Space and Subjects: On aquaculture projections, interventions, and outcomes in British Columbia, Canada. |                          | <i>Cdn Jnl Rural Stud</i>   | 2013 |
| 10 | Bell and York              | Community Economic Identity: The Coal Industry and Ideology Construction in West Virginia.                                       |                          | <i>Rural Sociology</i>      | 2010 |

**Required Additional Supplies and Materials (software, hardware, tools, specialized clothing, etc.)**

Field trip fees may be required.

**Typical Evaluation Methods and Weighting**

|                              |    |                                      |     |                   |     |            |      |
|------------------------------|----|--------------------------------------|-----|-------------------|-----|------------|------|
| Final exam:                  | %  | Assignments (Commodity Report):      | 25% | Midterm exam:     | %   | Practicum: | %    |
| Quizzes/tests:               | %  | Environmental Assessment Evaluation: | 25% | Field experience: | %   | Shop work: | %    |
| Ethics Discussion (On-Line): | 5% | Progressive Essays (2):              | 30% | Discussion:       | 15% | Total:     | 100% |

**Details (if necessary):**

**Typical Course Content and Topics****Weeks 1-3: Defining and Quantifying Natural Resources**

- Introduction to course and course objectives
- What are 'resources'?
- Interdisciplinary approaches to studying natural resources
- Career pathways in natural resource fields
- Economics and Resource Markets—a Geographic perspective
- Resource Scarcity, Extraction, and Externalities

**Weeks 4-8: Sustainability, Scarcity, Investment and the Production of Minerals and Energy**

- Geographies of Investment, Economic Growth, Community Development, and the Resource Curse
- Can Mining Be Sustainable? Corporate Social Responsibility and Green Technologies in Resource Non-Renewable Extraction
- Environmental Review Processes
- Personal and professional ethics in natural resource employment
- Geographies of Energy: Oil, Wind, Hydro, and the Battle over Place
- On the Front Lines in Resource Battles: Indigenous Territoriality and Energy Development

**Weeks 9-13: Ensuring Sustainability and Securing Natural Capital in Renewable Resource Sectors**

- Constructing Knowledge and Ownership in Natural Resource Management and Decision-Making
- Participatory Action Research
- Managing the Commons: Lessons and Strategies
- Water
- Land and Food: Conceptualizing the challenges of defining resource needs
- Fisheries Management in North America
- BC's Forests
- Summary and Conclusions

**Memo for Course Changes**

To: Alisa Webb, Associate Dean College of Arts, Chair College of Arts Curriculum Committee

Cc: Lisa Matty, Committees Assistant (Auxiliary), Amanda Grimson, UEC Assistant

From: Steven Marsh, Department Head GATE

Date: 2016 August

**Subject: Proposal for revision of GEOGRAPHY 362**

1. Summary of changes (select all that apply):

- ☒ Six-year review
- ☐ Number and/or course code
- ☐ Credits and/or total hours
- ☐ Title
- ☒ Calendar description
- ☒ Prerequisites and/or co-requisites
- ☐ Frequency of course offering
- ☒ Learning outcomes
- ☐ Delivery methods and/or texts and resource materials
- ☐ PLAR options, grading system, and/or evaluation methods
- ☐ Discontinuation of course
- ☒ Other – Please specify: Sample content

2. Rationale for change:

**The course is undergoing a 6-year review. The changes reflect a tightening of calendar description, sharper learning outcomes, and an updating of content and methods to reflect existing issues and problem-based learning within the course.**

3. If there are substantial changes to the learning outcomes, explain how they align with the learning outcomes of the program(s):

More focus within the learning outcomes is placed on applied learning, which is a core learning outcome within Geography. Additional outcome on planning further identifies the ways in which the course fits into the Urban and Planning Studies concentration within Geography.

4. Is this course required by any program beyond the discipline? If so, how will this change affect that program or programs?

**No**

5. Which program areas have been consulted about the change(s)?

**None**

6. What consideration has been given to indigenizing the curriculum?

**The course already included Indigenous subject matter at several points, but it was never explicit within either the Learning Outcomes or the sample content. The revisions reflect the ways in which Indigenous issues and approaches to the tourism sector are integrated into the course's development.**

7. If this course is not eligible for PLAR, explain why: **N/A**

8. If any of the following items on the official course outline have changed, explain how the change will affect the budget for your area or any other area:

- a. Credit value
- b. Class size limit
- c. Frequency of offering
- d. Resources required (labs, equipment)

**N/A**

9. Are field trips required for this course? (Field trip requirements must be announced in the timetable.) How are the trips funded?

**They will usually be required and involve travel to Vancouver. Students are responsible for travel to and from Vancouver, including the cost incurred (\$23 return on the West Coast Express).**

10. Estimate of the typical costs for this course, including textbooks and other materials:

**\$120**

**CWC comments and responses:**

- Would the department consider retaining the interim prerequisite ("45 university-level credits or one of the following: GEOG 240, GEOG 241, GEOG 242, or KPE 130") instead of changing to require 45 credits?  
*The intent is to open up the course to broader range of students. Will move to 45 University Level Credits.*



ORIGINAL COURSE IMPLEMENTATION DATE:  
 REVISED COURSE IMPLEMENTATION DATE:  
 COURSE TO BE REVIEWED: (six years after UEC  
 approval)

January 2006  
 September 2017  
 January 2023

Course outline form version: 09/15/14

## OFFICIAL UNDERGRADUATE COURSE OUTLINE FORM

Note: The University reserves the right to amend course outlines as needed without notice.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |    |                              |    |                  |  |                        |   |                                            |  |                            |   |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------------------------------|----|------------------|--|------------------------|---|--------------------------------------------|--|----------------------------|---|----------------------|--|--------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Course Code and Number:</b> GEOG 362                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           | <b>Number of Credits:</b> 4 <a href="#">Course credit policy (105)</a>                                                                                                                                                                                                                                                                                                                                                                                                                                   |    |                              |    |                  |  |                        |   |                                            |  |                            |   |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Course Full Title:</b> Geography of Tourism and Recreation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |    |                              |    |                  |  |                        |   |                                            |  |                            |   |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Course Short Title (if title exceeds 30 characters):</b> Geography Tourism and Recreation                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |    |                              |    |                  |  |                        |   |                                            |  |                            |   |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Faculty:</b> Faculty of Social Sciences                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | <b>Department (or program if no department):</b> Geography and the Environment                                                                                                                                                                                                                                                                                                                                                                                                                           |    |                              |    |                  |  |                        |   |                                            |  |                            |   |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Calendar Description:</b><br><p>Introduction to tourism and recreation systems from a geographic perspective. Use of applied and critical approaches to study of spatial patterns of and impacts resulting from tourism and recreation activities, both locally and globally. Field trips outside of class time may be required. Please refer to department website for field trip scheduling information.</p>                                                                                                                                                |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |    |                              |    |                  |  |                        |   |                                            |  |                            |   |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Prerequisites (or NONE):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | 45 university-level credits or one of the following: GEOG 240, GEOG 241, GEOG 242, or KPE 130. Note: As of January 2018, prerequisites will change to the following: 45 university-level credits.                                                                                                                                                                                                                                                                                                        |    |                              |    |                  |  |                        |   |                                            |  |                            |   |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Corequisites (if applicable, or NONE):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |    |                              |    |                  |  |                        |   |                                            |  |                            |   |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Pre/corequisites (if applicable, or NONE):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |    |                              |    |                  |  |                        |   |                                            |  |                            |   |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Equivalent Courses (cannot be taken for additional credit)</b><br>Former course code/number:<br>Cross-listed with:<br>Equivalent course(s):<br><i>Note: Equivalent course(s) should be included in the calendar description by way of a note that students with credit for the equivalent course(s) cannot take this course for further credit.</i>                                                                                                                                                                                                           |           | <b>Transfer Credit</b><br>Transfer credit already exists: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>Transfer credit requested (OREg to submit to BCCAT):<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (if yes, fill in transfer credit form)<br>Resubmit revised outline for articulation: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>To find out how this course transfers, see <a href="#">bctransferguide.ca</a> . |    |                              |    |                  |  |                        |   |                                            |  |                            |   |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Total Hours: 60</b><br><b>Typical structure of instructional hours:</b> <table border="1"> <tr> <td>Lecture hours</td> <td>25</td> </tr> <tr> <td>Seminars/tutorials/workshops</td> <td>25</td> </tr> <tr> <td>Laboratory hours</td> <td></td> </tr> <tr> <td>Field experience hours</td> <td>6</td> </tr> <tr> <td>Experiential (practicum, internship, etc.)</td> <td></td> </tr> <tr> <td>Online learning activities</td> <td>4</td> </tr> <tr> <td>Other contact hours:</td> <td></td> </tr> <tr> <td><b>Total</b></td> <td><b>60</b></td> </tr> </table> |           | Lecture hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 25 | Seminars/tutorials/workshops | 25 | Laboratory hours |  | Field experience hours | 6 | Experiential (practicum, internship, etc.) |  | Online learning activities | 4 | Other contact hours: |  | <b>Total</b> | <b>60</b> | <b>Special Topics</b><br>Will the course be offered with different topics?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>If yes, different lettered courses may be taken for credit:<br><input type="checkbox"/> No <input type="checkbox"/> Yes, repeat(s) <input type="checkbox"/> Yes, no limit<br><i>Note: The specific topic will be recorded when offered.</i> |  |
| Lecture hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 25        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |    |                              |    |                  |  |                        |   |                                            |  |                            |   |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Seminars/tutorials/workshops                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 25        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |    |                              |    |                  |  |                        |   |                                            |  |                            |   |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Laboratory hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |    |                              |    |                  |  |                        |   |                                            |  |                            |   |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Field experience hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 6         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |    |                              |    |                  |  |                        |   |                                            |  |                            |   |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Experiential (practicum, internship, etc.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |    |                              |    |                  |  |                        |   |                                            |  |                            |   |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Online learning activities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 4         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |    |                              |    |                  |  |                        |   |                                            |  |                            |   |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Other contact hours:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |    |                              |    |                  |  |                        |   |                                            |  |                            |   |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>60</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |    |                              |    |                  |  |                        |   |                                            |  |                            |   |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | <b>Maximum enrolment (for information only): 28</b><br><b>Expected frequency of course offerings (every semester, annually, every other year, etc.):</b> once every other year                                                                                                                                                                                                                                                                                                                           |    |                              |    |                  |  |                        |   |                                            |  |                            |   |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Department / Program Head or Director:</b> Steven Marsh                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | <b>Date approved:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |    |                              |    |                  |  |                        |   |                                            |  |                            |   |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Faculty Council approval</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | <b>Date approved:</b> November 2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |    |                              |    |                  |  |                        |   |                                            |  |                            |   |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Campus-Wide Consultation (CWC)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | <b>Date of posting:</b> December 9, 2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |    |                              |    |                  |  |                        |   |                                            |  |                            |   |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Dean/Associate VP:</b> Dr. Jacqueline Nolte                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           | <b>Date approved:</b> November 2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |    |                              |    |                  |  |                        |   |                                            |  |                            |   |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Undergraduate Education Committee (UEC) approval</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           | <b>Date of meeting:</b> January 27, 2017                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |    |                              |    |                  |  |                        |   |                                            |  |                            |   |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |

## Learning Outcomes

Upon successful completion of this course, students will be able to:

1. Persuasively argue the role of leisure time and income in influencing the development of cultural and 'natural' places.
2. Critically assess the relationship between different socio-demographic factors and the spatial distribution of recreation goods and tourism services.
3. Demonstrated advanced written abilities in geography, with specific reference to tourism and recreation.
4. Apply geographic techniques and approaches to assessing tourism and outdoor recreation's effects on the environment.
5. Discuss the complex relationships between Indigenous tourism development and tourism's impacts within and upon communities.
6. Work effectively as part of a large group in tackling a complex real-world planning project.
7. Critically assess how planning measures are used to mitigate the impacts of tourism and recreation development.

## Prior Learning Assessment and Recognition (PLAR)

☒ Yes      ☐ No, PLAR cannot be awarded for this course because

## Typical Instructional Methods (guest lecturers, presentations, online instruction, field trips, etc.; may vary at department's discretion)

Lectures, seminars, AV material, and field trips.

**Grading system:** Letter Grades: ☒ Credit/No Credit: ☐ Labs to be scheduled independent of lecture hours: Yes ☐ No ☐

**NOTE: The following sections may vary by instructor. Please see course syllabus available from the instructor.**

## Typical Text(s) and Resource Materials (if more space is required, download Supplemental Texts and Resource Materials form)

|    | Author (surname, initials) | Title (article, book, journal, etc.)                                                            | Current ed.                         | Publisher | Year |
|----|----------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------|-----------|------|
| 1. | Williams, S. and A. Lew    | Tourism Geography: Critical Understandings of Place, Space, and Experience, 3 <sup>rd</sup> ed. | <input checked="" type="checkbox"/> | Routledge | 2014 |
| 2. | Plummer, Ryan              | Outdoor Recreation: An Introduction                                                             | <input type="checkbox"/>            | Routledge | 2009 |
| 3. | Ryan, Sean                 | Theorizing Outdoor Recreation and Nature                                                        | <input type="checkbox"/>            | Springer  | 2016 |
| 4. |                            |                                                                                                 | <input type="checkbox"/>            |           |      |

## Required Additional Supplies and Materials (software, hardware, tools, specialized clothing, etc.)

Field trips will usually incur a fee associated with local travel (e.g. Vancouver).

## Typical Evaluation Methods and Weighting

|                |     |                     |     |                     |     |            |    |
|----------------|-----|---------------------|-----|---------------------|-----|------------|----|
| Final exam:    | %   | Assignments:        | %   | Midterm exam:       | %   | Practicum: | %  |
| Quizzes/tests: | 30% | Lab work:           | %   | Field experience:   | %   | Shop work: | %  |
| Group Project: | 30% | Research Summaries: | 30% | Seminar Discussion: | 10% | Total:     | 0% |

**Details (if necessary):**

## Typical Course Content and Topics

### Part I: Introduction (Weeks 1-2)

1. Introduction to course; basic concepts, definitions
2. Historical development of tourism, leisure, recreation resources
3. BC's tourism sector; Indigenous tourism in Canada and the US

### Part II: The Globalization of 'Demand' in an Age of Growing Inequity (Weeks 3-4)

4. Socio-economic influences on demand for leisure, tourism, and recreation
5. Motivation and decision-making processes; seasonality
6. Media, globalization, and shrinking time-space barriers

### Part III: Understanding 'Supply' (Weeks 5-7)

7. Identifying resource potential; Inventory and analysis
8. Urban tourism and recreation resources; business tourism; sports tourism
9. Rural tourism and recreation resources; cultural and indigenous tourism resources
10. Local, regional, and national parks
11. Commodification of culture and nature in recreation and tourism
12. Resource planning

### Part IV: Understanding Impacts, Achieving Sustainability (Weeks 8-13)

11. Overview of cultural, economic, social impacts; volunteer tourism
12. Indigenous agency in tourism development; differential impacts on rural, developing world communities
13. Defining and achieving sustainability in tourism and recreation; ecotourism
14. Project presentations; course conclusion

**Memo for Course Changes**

To: Alisa Webb, Associate Dean College of Arts, Chair College of Arts Curriculum Committee

Cc: Lisa Matty, Committees Assistant (Auxiliary)

From: Steven Marsh, Department Head GATE

Date: October 21, 2016

**Subject: Proposal for revision of Geography 412, Environmental Geography Practicum**

1. Summary of changes (select all that apply):
  - ☐ Six-year review
  - ☐ Number and/or course code
  - ☐ Credits and/or total hours
  - ☐ Title
  - ☒ Calendar description
  - ☒ Prerequisites and/or co-requisites
  - ☐ Frequency of course offering
  - ☒ Learning outcomes
  - ☐ Delivery methods and/or texts and resource materials
  - ☐ PLAR options, grading system, and/or evaluation methods
  - ☐ Discontinuation of course
  - ☒ Other – Please specify: Typical Course content and topics
2. Rationale for change: The changes reflect an update to how the course is currently being offered after the first few offerings. The prerequisites have been changed as GEOG 250 has not been offered in five years.
3. If there are substantial changes to the learning outcomes, explain how they align with the learning outcomes of the program(s): The learning outcomes have been updated to better reflect the way the course is currently offered. The learning outcomes align with the five categories of GATE's learning outcomes which are: knowing, learning, investigating & problem solving, communicating, and self-directing & collaborating.
4. Is this course required by any program beyond the discipline? If so, how will this change affect that program or programs? N/A
5. Which program areas have been consulted about the change(s)? GATE
6. What consideration has been given to indigenizing the curriculum? It depends upon the placement for the students but it is possible that the placement could be with an indigenous employer or agency.
7. If this course is not eligible for PLAR, explain why:
8. If any of the following items on the official course outline have changed, explain how the change will affect the budget for your area or any other area: N/A

- a. Credit value
  - b. Class size limit
  - c. Frequency of offering
  - d. Resources required (labs, equipment)
9. Are field trips required for this course? (Field trip requirements must be announced in the timetable.) How are the trips funded? Field trips may be required. Field trips are funded 50% by the department and 50% by the students in the course.
10. Estimate of the typical costs for this course, including textbooks and other materials: \$100 for text.

**CWC comments and responses:**

- Memo indicates that GEOG 250 has not been offered for five years; should it be discontinued?  
*We are in the midst of a program renewal, GEOG 250 will likely be discontinued when time permits.*
- Increase in prerequisites will require notice in the calendar.  
*There isn't an increase as GEOG 250 has never been offered*



**ORIGINAL COURSE IMPLEMENTATION DATE:** January 2013  
**REVISED COURSE IMPLEMENTATION DATE:** September 2017  
**COURSE TO BE REVIEWED: (six years after UEC approval)** October 2018  
**Course outline form version:** 09/15/14

## OFFICIAL UNDERGRADUATE COURSE OUTLINE FORM

**Note: The University reserves the right to amend course outlines as needed without notice.**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                              |    |                  |  |                        |    |                                            |  |                            |  |                      |  |              |            |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------|----|------------------|--|------------------------|----|--------------------------------------------|--|----------------------------|--|----------------------|--|--------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Course Code and Number:</b> GEOG 412                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |            | <b>Number of Credits:</b> 4 <a href="#">Course credit policy (105)</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                              |    |                  |  |                        |    |                                            |  |                            |  |                      |  |              |            |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Course Full Title:</b> Environmental Geography Practicum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                              |    |                  |  |                        |    |                                            |  |                            |  |                      |  |              |            |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Course Short Title (if title exceeds 30 characters):</b> Environmental Geog. Practicum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                              |    |                  |  |                        |    |                                            |  |                            |  |                      |  |              |            |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Faculty:</b> Faculty of Social Sciences                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |            | <b>Department (or program if no department):</b> Geography and the Environment                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                              |    |                  |  |                        |    |                                            |  |                            |  |                      |  |              |            |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Calendar Description:</b><br><p>This course enables students to integrate applied practical experience and training into their academic studies in environmental geography. Students will participate in a semester-long practicum that will provide them the opportunity to build upon their skills in a supervised and usually unpaid work experience in environmental practice with an employer or institution.</p> <p><i>Note: Before initiating practicum placements, students must sign a practicum agreement.</i></p>                                                                                                                                                                                          |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                              |    |                  |  |                        |    |                                            |  |                            |  |                      |  |              |            |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Prerequisites (or NONE):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            | GEOG 25, GEOG 253, 8 credits of 300/400-level Geography, and permission of instructor and department head.                                                                                                                                                                                                                                                                                                                                                                                                            |  |                              |    |                  |  |                        |    |                                            |  |                            |  |                      |  |              |            |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Corequisites (if applicable, or NONE):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            | NONE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                              |    |                  |  |                        |    |                                            |  |                            |  |                      |  |              |            |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Pre/corequisites (if applicable, or NONE):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            | NONE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                              |    |                  |  |                        |    |                                            |  |                            |  |                      |  |              |            |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Equivalent Courses (cannot be taken for additional credit)</b><br>Former course code/number:<br>Cross-listed with:<br>Equivalent course(s):<br><i>Note: Equivalent course(s) should be included in the calendar description by way of a note that students with credit for the equivalent course(s) cannot take this course for further credit.</i>                                                                                                                                                                                                                                                                                                                                                                   |            | <b>Transfer Credit</b><br>Transfer credit already exists: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>Transfer credit requested (OREg to submit to BCCAT):<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (if yes, fill in transfer credit form)<br>Resubmit revised outline for articulation: <input type="checkbox"/> Yes <input type="checkbox"/> No<br>To find out how this course transfers, see <a href="http://bctransferguide.ca">bctransferguide.ca</a> . |  |                              |    |                  |  |                        |    |                                            |  |                            |  |                      |  |              |            |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Total Hours: 100</b><br><b>Typical structure of instructional hours:</b> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr><td>Lecture hours</td><td></td></tr> <tr><td>Seminars/tutorials/workshops</td><td style="text-align: center;">12</td></tr> <tr><td>Laboratory hours</td><td></td></tr> <tr><td>Field experience hours</td><td style="text-align: center;">88</td></tr> <tr><td>Experiential (practicum, internship, etc.)</td><td></td></tr> <tr><td>Online learning activities</td><td></td></tr> <tr><td>Other contact hours:</td><td></td></tr> <tr><td style="text-align: right;"><b>Total</b></td><td style="text-align: center;"><b>100</b></td></tr> </table> |            | Lecture hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | Seminars/tutorials/workshops | 12 | Laboratory hours |  | Field experience hours | 88 | Experiential (practicum, internship, etc.) |  | Online learning activities |  | Other contact hours: |  | <b>Total</b> | <b>100</b> | <b>Special Topics</b><br>Will the course be offered with different topics?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>If yes, different lettered courses may be taken for credit:<br><input type="checkbox"/> No <input type="checkbox"/> Yes, repeat(s) <input type="checkbox"/> Yes, no limit<br><i>Note: The specific topic will be recorded when offered.</i> |  |
| Lecture hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                              |    |                  |  |                        |    |                                            |  |                            |  |                      |  |              |            |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Seminars/tutorials/workshops                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 12         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                              |    |                  |  |                        |    |                                            |  |                            |  |                      |  |              |            |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Laboratory hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                              |    |                  |  |                        |    |                                            |  |                            |  |                      |  |              |            |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Field experience hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 88         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                              |    |                  |  |                        |    |                                            |  |                            |  |                      |  |              |            |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Experiential (practicum, internship, etc.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                              |    |                  |  |                        |    |                                            |  |                            |  |                      |  |              |            |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Online learning activities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                              |    |                  |  |                        |    |                                            |  |                            |  |                      |  |              |            |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Other contact hours:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                              |    |                  |  |                        |    |                                            |  |                            |  |                      |  |              |            |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>100</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                              |    |                  |  |                        |    |                                            |  |                            |  |                      |  |              |            |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            | <b>Maximum enrolment (for information only):</b> 6<br><b>Expected frequency of course offerings (every semester, annually, every other year, etc.):</b> on demand                                                                                                                                                                                                                                                                                                                                                     |  |                              |    |                  |  |                        |    |                                            |  |                            |  |                      |  |              |            |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Department / Program Head or Director:</b> Steven Marsh                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |            | <b>Date approved:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                              |    |                  |  |                        |    |                                            |  |                            |  |                      |  |              |            |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Faculty Council approval</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |            | <b>Date approved:</b> November 2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                              |    |                  |  |                        |    |                                            |  |                            |  |                      |  |              |            |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Campus-Wide Consultation (CWC)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            | <b>Date of posting:</b> December 9, 2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                              |    |                  |  |                        |    |                                            |  |                            |  |                      |  |              |            |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Dean/Associate VP:</b> Dr. Jacqueline Nolte                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |            | <b>Date approved:</b> November 2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                              |    |                  |  |                        |    |                                            |  |                            |  |                      |  |              |            |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Undergraduate Education Committee (UEC) approval</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |            | <b>Date of meeting:</b> January 27, 2017                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |                              |    |                  |  |                        |    |                                            |  |                            |  |                      |  |              |            |                                                                                                                                                                                                                                                                                                                                                                                                  |  |

## Learning Outcomes

Upon successful completion of this course, students will be able to:

1. Create and implement a work plan.
2. Work in collaboration with immediate workplace supervisors to develop goals that benefit student, the larger organization (UFV and the practicum placement organization) and the community as a whole.
3. Perform various skills in which they have been trained both prior to and during their internship placement.
4. Apply concepts, skills, and theories on environmental practice learned in the classroom to work with non-UFV employment opportunities.
5. Examine his or her own values relative to those of a practicum institution or agency.
6. Reflect on and assess their abilities and interests in employment in an environmental field.
7. Perform professionally in the workplace.

## Prior Learning Assessment and Recognition (PLAR)

☒ Yes ☐ No, PLAR cannot be awarded for this course because

## Typical Instructional Methods (guest lecturers, presentations, online instruction, field trips, etc.; may vary at department's discretion)

Practicum placement with an environmental firm or institution, equivalent to an average of one, 8-hour day per week over 12 weeks of the regular term. Seminars and presentation of final project will also be required.

## Practicum placement:

Due to the organizational needs of a practicum-based course, initial discussions regarding possible practicum placement sites will begin well before the semester begins. A student interested in a Geog 412 practicum and faculty supervisor will meet well in advance of the semester to discuss possible practicum sites and the nature of the course and its expectations.

## Practicum:

After the initial meeting students will be working 8 hours a week in their arranged practicum for the next twelve weeks. The parameters of the practicum will be set out in detail in the Learning Agreement and Work Plan that is drafted in discussions between the student and employer, and approved by the instructor. The Learning Agreement and Work Plan will accomplish the following:

1. define the goals the student hopes to achieve;
2. clearly specify the major project undertaken in the practicum and the general work tasks;
3. specify the work schedule and location;
4. identify the individual who will serve as supervisor for the student; and
5. identify a potential topic for a research poster or similar project.

## Practicum Project:

Defined in the Learning Agreement, the Final Project will likely take the form of a research poster produced in conjunction with and with the consent of the sponsor agency. The sponsor will retain a copy of the Project; the student will present another copy at the post - practicum seminars and /or conferences. Additional formats may be considered, depending on the needs of the sponsor organization and the nature of the practicum work.

In the last week of the term students will have an opportunity to present their Final Project, share their practicum experiences with classmates, and consider the career possibilities opened to them by the course.

**Grading system:** Letter Grades: ☒ Credit/No Credit: ☐ Labs to be scheduled independent of lecture hours: Yes ☐ No ☐

**NOTE: The following sections may vary by instructor. Please see course syllabus available from the instructor.**

## Typical Text(s) and Resource Materials (if more space is required, download Supplemental Texts and Resource Materials form)

| Author (surname, initials)                            | Title (article, book, journal, etc.)                                                                           | Current ed.              | Publisher | Year |
|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|--------------------------|-----------|------|
| 1. Northey, Margot, David B. Knight, and Diane Draper | Making Sense in Geography and Environmental Sciences. A Student's Guide to Research and Writing, Fifth Edition | <input type="checkbox"/> | Oxford    | 2012 |
| 2. Solen, Michael, Kenneth Foote, and Janice Monk,    | Practicing Geography. Careers for Enhancing Society and the Environment.                                       | <input type="checkbox"/> | Pearson   | 2013 |
| 3.                                                    |                                                                                                                | <input type="checkbox"/> |           |      |
| 4.                                                    |                                                                                                                | <input type="checkbox"/> |           |      |
| 5.                                                    |                                                                                                                | <input type="checkbox"/> |           |      |

**Required Additional Supplies and Materials (software, hardware, tools, specialized clothing, etc.)**

None, although the student may encounter additional travel expenses associated with off-campus practicum placements.

**Typical Evaluation Methods and Weighting**

|                |     |                     |    |                                                     |     |            |      |
|----------------|-----|---------------------|----|-----------------------------------------------------|-----|------------|------|
| Final project: | %   | Writing Assignment: | %  | Midterm exam:                                       | %   | Practicum: | %    |
| Quizzes/tests: | %   | Lab work:           | %  | Field Placement Evaluations:<br>(mid-point & final) | 30% | Journal    | 20%  |
| Work Plan:     | 15% | Poster Proposal::   | 5% | Poster/Presentation::                               | 30% | Total:     | 100% |

**Details (if necessary):****Typical Course Content and Topics**

Content will vary as according to Practicum placement. In addition to work with the employer, students will also meet weekly (online or in person) with faculty supervisor to review practicum process and discuss required readings.

**Memo for Course Changes**

To: Campus Wide Consultation

From: Nancy Goad

Date: January 10, 2017

**1. Subject: Proposal for revision of HSc 116 Pharmacotherapeutics**

Summary of changes (select all that apply):

- ☐ Six-year review
- ☐ Number and/or course code
- ☐ Credits and/or total hours
- ☐ Title
- ☐ Calendar description
- ☒ Prerequisites and/or co-requisites
- ☐ Frequency of course offering
- ☐ Learning outcomes
- ☐ Delivery methods and/or texts and resource materials
- ☐ PLAR options, grading system, and/or evaluation methods
- ☐ Discontinuation of course
- ☐ Other – Please specify:

2. Rationale for change: This course is currently taught in semester 2 of the BSN program. It provides an overview of medication classifications. At the present time students have not completed it before they begin to give medications to patients in the clinical setting. Removing the prerequisite would mean that the courses can be taught in semester 1. This would allow for the course to be completed before students would begin to administer medications.

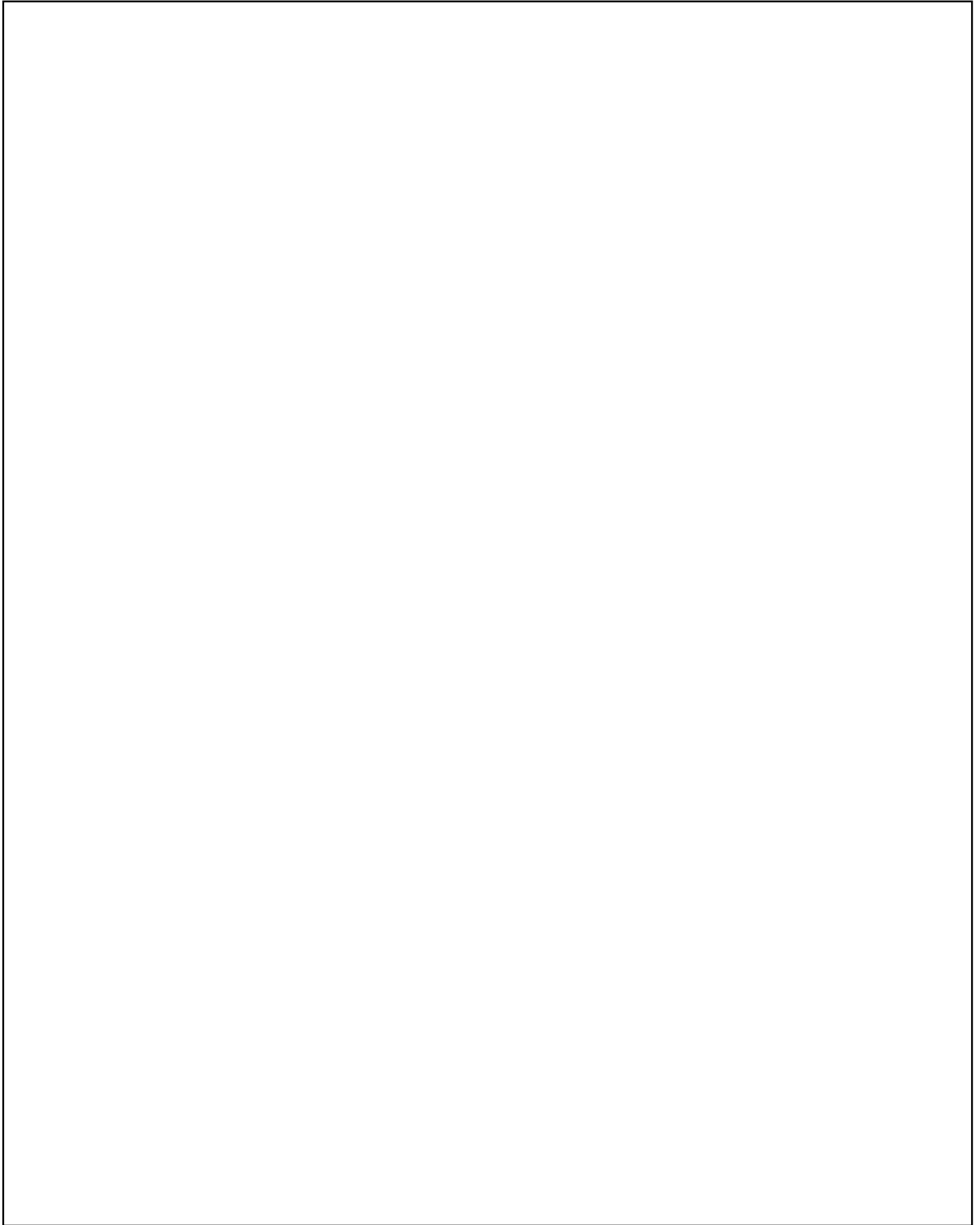
If there are substantial changes to the learning outcomes, explain how they align with the learning outcomes of the program(s): No change

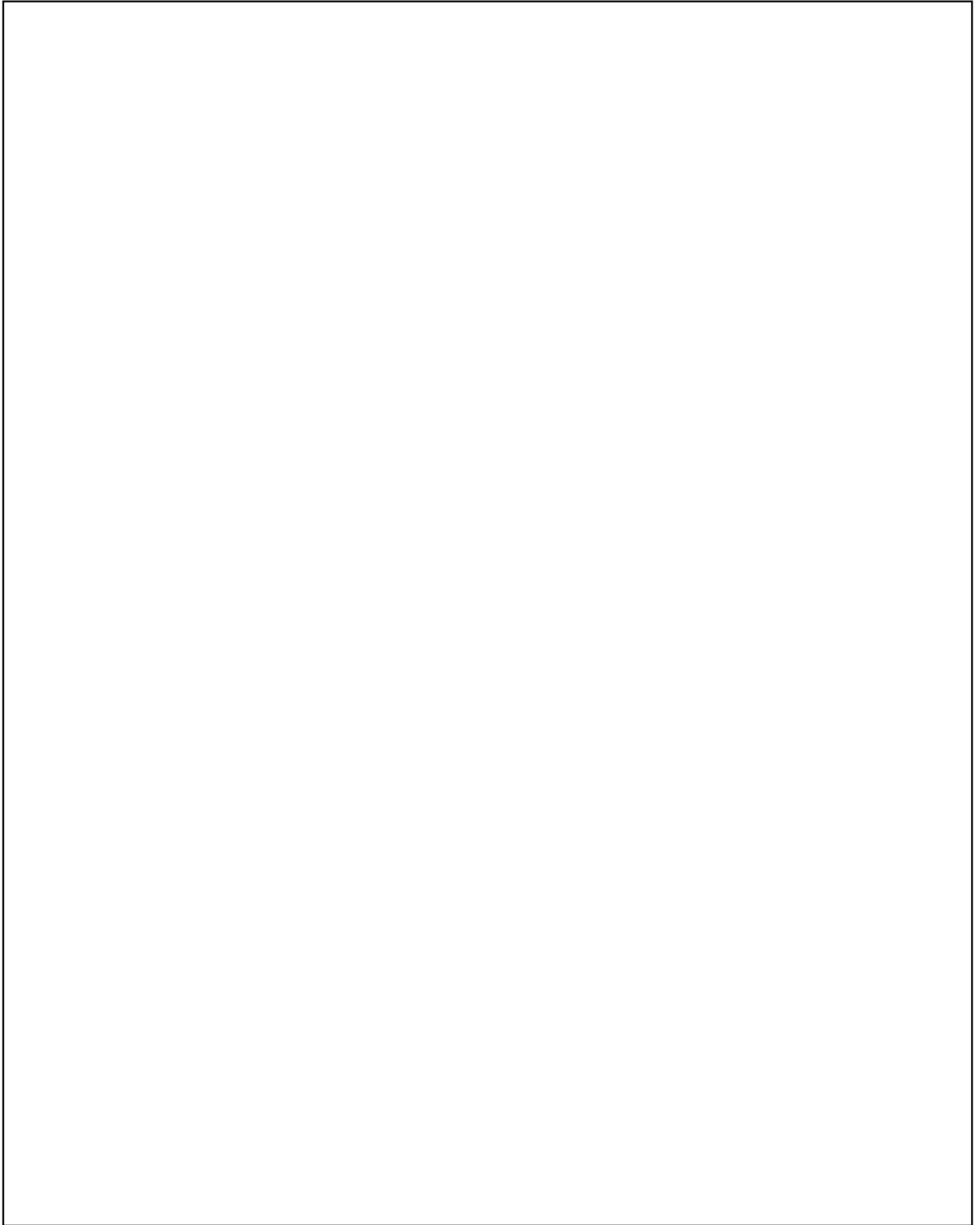
3. Is this course required by any program beyond the discipline? If so, how will this change affect that program or programs? It is not required by any other program
4. Which program areas have been consulted about the change(s)? BSN faculty, BSN curriculum committee, instructor
5. What consideration has been given to indigenizing the curriculum? Part of the content of this courses does include ethnocultural considerations in Canada and natural health products, some of which are relevant to indigenous people.
6. If this course is not eligible for PLAR, explain why:
7. If any of the following items on the official course outline have changed, explain how the change will affect the budget for your area or any other area:
- a. Credit value

- b. Class size limit
  - c. Frequency of offering
  - d. Resources required (labs, equipment)
8. Are field trips required for this course? (Field trip requirements must be announced in the timetable.) How are the trips funded? No
9. Estimate of the typical costs for this course, including textbooks and other materials:  
2 credit course (approximately \$380.00 plus a textbook)

The UEC Screening Subcommittee comments:

- Memo is missing the course number. It has been added to the course outline.
- Does the prerequisite change mean HSC 111 is no longer required for success in the course? Can the rationale for changing this be expanded somewhat?  
At the present time the HSc 116 course is being offered in the same semester as HSC 113, the second half of anatomy and Physiology. It is the desire of the program to move the HSC 116 course to the semester in which HSC 111 is being offered (the first semester of the BSN program). HSc 116 would then run alongside of HSc 111 hence the removal of HSc 111 as a pre-requisite. The instructor feels that the anatomy and physiology in the program while desirable is not necessary to be able to manage the pharmacology course (HSc 116). He feels that Biology 12 (which is a program prerequisite) provides enough depth for students to be able to understand the pharmacology concepts taught. Moving HSc 116 to semester 1 ensures that students have had theory related to all drug classifications.
- Transfer credit and special topics sections are incomplete the Completed







ORIGINAL COURSE IMPLEMENTATION DATE: January 2006  
 REVISED COURSE IMPLEMENTATION DATE: September 2017  
 COURSE TO BE REVIEWED: (six years after UEC approval) May 2021  
 Course outline form version: 09/15/14

## OFFICIAL UNDERGRADUATE COURSE OUTLINE FORM

**Note: The University reserves the right to amend course outlines as needed without notice.**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |  |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------------------------------|--|------------------|--|------------------------|--|--------------------------------------------|--|----------------------------|--|----------------------|--|--------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Course Code and Number:</b> HSC 116                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           | <b>Number of Credits:</b> 2 <a href="#">Course credit policy (105)</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                           |    |                              |  |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Course Full Title:</b> Pharmacotherapeutics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |  |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Course Short Title (if title exceeds 30 characters):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |  |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Faculty:</b> Faculty of Health Sciences                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           | <b>Department (or program if no department):</b> School of Health Studies, BSN                                                                                                                                                                                                                                                                                                                                                                                                                                                   |    |                              |  |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Calendar Description:</b><br>In this course concepts and principles of pharmacotherapeutics will be presented. Key drug classifications will be discussed in relationship to pharmacokinetics and pharmacodynamics and their effects on particular body systems.                                                                                                                                                                                                                                                                                                                                                                                                                             |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |  |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Prerequisites (or NONE):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           | Admission to the Bachelor of Science in Nursing program.                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |    |                              |  |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Corequisites (if applicable, or NONE):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |  |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Pre/corequisites (if applicable, or NONE):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |  |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Equivalent Courses (cannot be taken for additional credit)</b><br>Former course code/number:<br>Cross-listed with:<br>Equivalent course(s):<br><i>Note: Equivalent course(s) should be included in the calendar description by way of a note that students with credit for the equivalent course(s) cannot take this course for further credit.</i>                                                                                                                                                                                                                                                                                                                                          |           | <b>Transfer Credit</b><br>Transfer credit already exists: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>Transfer credit requested (OREg to submit to BCCAT):<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (if yes, fill in transfer credit form)<br>Resubmit revised outline for articulation: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>To find out how this course transfers, see <a href="http://bctransferguide.ca">bctransferguide.ca</a> . |    |                              |  |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Total Hours: 30</b><br><b>Typical structure of instructional hours:</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Lecture hours</td> <td style="text-align: center;">30</td> </tr> <tr> <td>Seminars/tutorials/workshops</td> <td></td> </tr> <tr> <td>Laboratory hours</td> <td></td> </tr> <tr> <td>Field experience hours</td> <td></td> </tr> <tr> <td>Experiential (practicum, internship, etc.)</td> <td></td> </tr> <tr> <td>Online learning activities</td> <td></td> </tr> <tr> <td>Other contact hours:</td> <td></td> </tr> <tr> <td style="text-align: right;"><b>Total</b></td> <td style="text-align: center;"><b>30</b></td> </tr> </table> |           | Lecture hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 30 | Seminars/tutorials/workshops |  | Laboratory hours |  | Field experience hours |  | Experiential (practicum, internship, etc.) |  | Online learning activities |  | Other contact hours: |  | <b>Total</b> | <b>30</b> | <b>Special Topics</b><br>Will the course be offered with different topics?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>If yes, different lettered courses may be taken for credit:<br><input type="checkbox"/> No <input type="checkbox"/> Yes, repeat(s) <input type="checkbox"/> Yes, no limit<br><i>Note: The specific topic will be recorded when offered.</i> |  |
| Lecture hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 30        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |  |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Seminars/tutorials/workshops                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |  |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Laboratory hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |  |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Field experience hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |  |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Experiential (practicum, internship, etc.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |  |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Online learning activities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |  |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Other contact hours:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |  |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>30</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |  |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           | <b>Maximum enrolment (for information only):</b> 48<br><b>Expected frequency of course offerings (every semester, annually, every other year, etc.):</b> Fall; Winter                                                                                                                                                                                                                                                                                                                                                            |    |                              |  |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Department / Program Head or Director:</b> Hannah MacDonald                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | <b>Date approved:</b> October 20, 2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |    |                              |  |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Faculty Council approval</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           | <b>Date approved:</b> November 18, 2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |    |                              |  |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Campus-Wide Consultation (CWC)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           | <b>Date of posting:</b> January 6, 2017                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |    |                              |  |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Dean/Associate VP:</b> Joanne MacLean                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | <b>Date approved:</b> November 18, 2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |    |                              |  |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Undergraduate Education Committee (UEC) approval</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | <b>Date of meeting:</b> January 27, 2017                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |    |                              |  |                  |  |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |

**HSC 116**
**University of the Fraser Valley Official Undergraduate Course Outline**
**Page 2 of 3**
**Learning Outcomes**

Upon successful completion of this course, students will be able to:

1. Explain the processes of pharmacokinetics and pharmacodynamics.
2. Apply the principles of pharmacokinetics and pharmacodynamics to the key drug classifications.
3. Describe the impact of specific drug classifications on body systems.
4. Explore the impact of pharmacological processes across the lifespan.

**Prior Learning Assessment and Recognition (PLAR)**

☒ Yes      ☐ No, PLAR cannot be awarded for this course because

**Typical Instructional Methods (guest lecturers, presentations, online instruction, field trips, etc.; may vary at department's discretion)**

Lecture, group discussion, student presentations, guest speakers.

**Grading system:** Letter Grades: ☒ Credit/No Credit: ☐ Labs to be scheduled independent of lecture hours: Yes ☐ No ☒

**NOTE: The following sections may vary by instructor. Please see course syllabus available from the instructor.**

**Typical Text(s) and Resource Materials (if more space is required, download Supplemental Texts and Resource Materials form)**

|    | Author (surname, initials)                          | Title (article, book, journal, etc.)           | Current ed.              | Publisher                     | Year |
|----|-----------------------------------------------------|------------------------------------------------|--------------------------|-------------------------------|------|
| 1. | Lilley, Harrington & Snyder                         | Pharmacology for Canadian Health Care Practice | 2 <sup>nd</sup>          | Toronto: ON. Elsevier         | 2011 |
| 2. | Vallerand, D. H., Sanoski, C.A., & Deghin, J. H., & | Davis's Canadian drug guide for nurses         | 14 <sup>th</sup>         | Philadelphia: W. B. Saunders. | 2015 |
| 3. |                                                     |                                                | <input type="checkbox"/> |                               |      |
| 4. |                                                     |                                                | <input type="checkbox"/> |                               |      |
| 5. |                                                     |                                                | <input type="checkbox"/> |                               |      |

**Required Additional Supplies and Materials (software, hardware, tools, specialized clothing, etc.)**
**Typical Evaluation Methods and Weighting**

|                |     |              |   |                   |     |            |      |
|----------------|-----|--------------|---|-------------------|-----|------------|------|
| Final exam:    | 40% | Assignments: | % | Midterm exam:     | 35% | Practicum: | %    |
| Quizzes/tests: | 25% | Lab work:    | % | Field experience: | %   | Shop work: | %    |
|                |     | Other:       | % | Other:            | %   | Total:     | 100% |

**Details (if necessary):**
**Typical Course Content and Topics**

1. Introduction to Nursing Pharmacotherapeutics
  - Pharmacokinetic and pharmacodynamic processes
  - Lifespan development considerations
2. Drugs affecting the Central Nervous System
 

Drug Classification:

  - Opioid and opioid antagonist
  - Analgesics-antipyretics-anti-inflammatory and related drugs
  - Antianxiety and Sedative-hypnotic drugs
  - Antiseizure Drugs
  - Antiparkinson Drugs
3. Drugs affecting the Autonomic Nervous System
 

Drug Classification:

  - Adrenergic Drugs and Antiadrenergic Drugs Cholinergic Drugs and Anticholinergic Drugs
4. Drugs affecting the Autonomic Nervous System
 

Drug Classification:

  - Hypothalamic, Pituitary and Adrenal Hormones
  - Corticosteroids
  - Thyroid and Antithyroid Drugs
  - Calcium and Bone Metabolism
  - Antidiabetic Drugs

**5. Drugs affecting the Respiratory System****Drug Classification:**

- Bronchodilators
- Antihistamines
- Nasal decongestants and Antitussives

**6. Drugs affecting the Cardiovascular and Renal Systems****Drug Classification:**

- Cardiac Glycosides
- Antianginal Drugs
- Antihypertensive Drugs
- Diuretics

**7. Drugs affecting the Gastrointestinal System****Drug Classification:**

- Anti-peptic and Antacid Reflux Drugs
- Laxatives and Cathartics
- Antiemetic

**8. Drugs affecting Hematologic and Immune Systems****Drug Classification:**

- Beta-Lactam Antibacterial: Penicillin, Cephalosporin and Others
- Aminoglycosides
- Tetracycline, Sulfonamides, and Urinary Agents
- Antifungal Drugs
- Anticoagulants

**9. Drugs affecting the Integumentary, Ophthalmic, and Otic Systems****Drug Classification:**

- Antiglaucoma Agents
- Topical Skin Agents

**Memo for Course Changes**

To: CACC, Sven van Dewetering, Alisa Webb

From: Karin Jager, GD Department Head

Date: October 24, 2016

**Subject: Proposal for revision of GD102 History of Graphic Design**

1. Summary of changes (select all that apply):

- ☒ Six-year review
- ☐ Number and/or course code
- ☒ Credits and/or total hours
- ☐ Title
- ☒ Calendar description
- ☐ Prerequisites and/or co-requisites
- ☐ Frequency of course offering
- ☒ Learning outcomes
- ☐ Delivery methods and/or texts and resource materials
- ☐ PLAR options, grading system, and/or evaluation methods
- ☐ Discontinuation of course
- ☐ Other – Please specify:

- 2. Rationale for change: The course has been updated to include more detail and additional total hours. The amount of content covered and applied nature of the course requires more class time. GD courses are typically 60 hours.
- 3. If there are substantial changes to the learning outcomes, explain how they align with the learning outcomes of the program(s): More explicit learning outcomes were needed for clarity. The additions directly align with GDD program learning outcomes:
- 4. Is this course required by any program beyond the discipline? If so, how will this change affect that program or programs? N/A
- 5. Which program areas have been consulted about the change(s)?
- 6. What consideration has been given to indigenizing the curriculum? This course provides the opportunity for indigenous content in projects. It will vary dependent on work undertaken by students.
- 7. If this course is not eligible for PLAR, explain why:
- 8. If any of the following items on the official course outline have changed, explain how the change will affect the budget for your area or any other area:
  - a. Credit value
  - b. Class size limit
  - c. Frequency of offering

- d. Resources required (labs, equipment)
- 9. Are field trips required for this course? (Field trip requirements must be announced in the timetable.) How are the trips funded? Field trips do not include fees and use public transportation.
- 10. Estimate of the typical costs for this course, including textbooks and other materials: \$900 (includes tuition \$740)

**CWC comments and responses:**

- The changes to this course appear to be extensive. Can the department confirm that this is not a new course?  
*This is not a new course. The course has been updated for clarity. (Original course was from 2003.)*
- Should a specific type of computer (i.e. Mac) be specified in the materials section?  
*Any computer can be used for this course, Mac is preferred – the student will need access to Adobe CC.*



ORIGINAL COURSE IMPLEMENTATION DATE: September 2003  
 REVISED COURSE IMPLEMENTATION DATE: September 2017  
 COURSE TO BE REVIEWED: (six years after UEC approval) January 2023  
 Course outline form version: 09/15/14

## OFFICIAL UNDERGRADUATE COURSE OUTLINE FORM

Note: The University reserves the right to amend course outlines as needed without notice.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                              |    |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------------------------------|----|------------------|----|------------------------|--|--------------------------------------------|--|----------------------------|--|----------------------|--|--------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Course Code and Number:</b> GD 102                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           | <b>Number of Credits:</b> 3 <a href="#">Course credit policy (105)</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |                              |    |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Course Full Title:</b> History of Graphic Design                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                              |    |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Course Short Title (if title exceeds 30 characters):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                              |    |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Faculty:</b> Faculty of Humanities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           | <b>Department (or program if no department):</b> Graphic and Digital Design                                                                                                                                                                                                                                                                                                                                                                                                                                           |    |                              |    |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Calendar Description:</b><br>Historical survey of graphic design from the perspective of social and political realities from which they developed. Through applied projects, students investigate the styles, aesthetics, and contexts of the industrial revolution, avant-garde movements, modernism, post-modernism, and the information age.                                                                                                                                                                                                                                                                                                                                                                              |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                              |    |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Prerequisites (or NONE):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           | None.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |    |                              |    |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Corequisites (if applicable, or NONE):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                              |    |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Pre/corequisites (if applicable, or NONE):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                              |    |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Equivalent Courses (cannot be taken for additional credit)</b><br>Former course code/number:<br>Cross-listed with:<br>Equivalent course(s):<br><i>Note: Equivalent course(s) should be included in the calendar description by way of a note that students with credit for the equivalent course(s) cannot take this course for further credit.</i>                                                                                                                                                                                                                                                                                                                                                                          |           | <b>Transfer Credit</b><br>Transfer credit already exists: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>Transfer credit requested (OReg to submit to BCCAT):<br><input type="checkbox"/> Yes <input type="checkbox"/> No (if yes, fill in transfer credit form)<br>Resubmit revised outline for articulation: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>To find out how this course transfers, see <a href="http://bctransferguide.ca">bctransferguide.ca</a> . |    |                              |    |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Total Hours: 60</b><br><b>Typical structure of instructional hours:</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Lecture hours</td><td style="text-align: right;">20</td></tr> <tr><td>Seminars/tutorials/workshops</td><td style="text-align: right;">20</td></tr> <tr><td>Laboratory hours</td><td style="text-align: right;">20</td></tr> <tr><td>Field experience hours</td><td></td></tr> <tr><td>Experiential (practicum, internship, etc.)</td><td></td></tr> <tr><td>Online learning activities</td><td></td></tr> <tr><td>Other contact hours:</td><td></td></tr> <tr><td style="text-align: right;"><b>Total</b></td><td style="text-align: right;"><b>60</b></td></tr> </table> |           | Lecture hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 20 | Seminars/tutorials/workshops | 20 | Laboratory hours | 20 | Field experience hours |  | Experiential (practicum, internship, etc.) |  | Online learning activities |  | Other contact hours: |  | <b>Total</b> | <b>60</b> | <b>Special Topics</b><br>Will the course be offered with different topics?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>If yes, different lettered courses may be taken for credit:<br><input type="checkbox"/> No <input type="checkbox"/> Yes, repeat(s) <input type="checkbox"/> Yes, no limit<br><i>Note: The specific topic will be recorded when offered.</i> |  |
| Lecture hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 20        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                              |    |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Seminars/tutorials/workshops                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 20        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                              |    |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Laboratory hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 20        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                              |    |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Field experience hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                              |    |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Experiential (practicum, internship, etc.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                              |    |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Online learning activities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                              |    |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Other contact hours:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                              |    |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>60</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                              |    |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           | <b>Maximum enrolment (for information only):</b> 24<br><b>Expected frequency of course offerings (every semester, annually, every other year, etc.):</b> Annually                                                                                                                                                                                                                                                                                                                                                     |    |                              |    |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Department / Program Head or Director:</b> Karin Jager                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | <b>Date approved:</b> November 2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |    |                              |    |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Faculty Council approval</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           | <b>Date approved:</b> November 2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |    |                              |    |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Campus-Wide Consultation (CWC)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           | <b>Date of posting:</b> December 12, 2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |                              |    |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Dean/Associate VP:</b> Jacqueline Nolte                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           | <b>Date approved:</b> November 2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |    |                              |    |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Undergraduate Education Committee (UEC) approval</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | <b>Date of meeting:</b> January 27, 2017                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |    |                              |    |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |

GD 102

University of the Fraser Valley Official Undergraduate Course Outline

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## Learning Outcomes

Upon successful completion of this course, students will be able to:

- Identify notable movements, designers, events, and contributions as related to 19th and 20th century graphic design
- Articulate the impact of social, cultural, technological, political and economic developments on visual communication
- Identify formal elements of visual communication of a variety of visual media
- Apply period styles to design projects with knowledge and understanding of the history of design
- Describe the motivations and philosophies behind conceptual approaches used by various designers
- Critically reflect on design movements
- Analyze visual media within a contextual framework
- Source and use images ethically; and,
- Communicate capably with and about images in visual communication

## Prior Learning Assessment and Recognition (PLAR)

☒ Yes    ☐ No, PLAR cannot be awarded for this course because

## Typical Instructional Methods (guest lecturers, presentations, online instruction, field trips, etc.; may vary at department's discretion)

Class lectures, presentations, films, and workshops will explore the theories and techniques that underlay the major movements and developments that have led the field. Applied projects strengthen the student's understanding of the material from the lectures and provide the opportunity to critically examine historical design style and the motivations and processes behind the development of the field.

**Grading system:** Letter Grades: ☒ Credit/No Credit: ☐ Labs to be scheduled independent of lecture hours: Yes ☐ No ☒

**NOTE: The following sections may vary by instructor. Please see course syllabus available from the instructor.**

## Typical Text(s) and Resource Materials (if more space is required, download Supplemental Texts and Resource Materials form)

|    | Author (surname, initials)             | Title (article, book, journal, etc.) | Current ed.              | Publisher         | Year |
|----|----------------------------------------|--------------------------------------|--------------------------|-------------------|------|
| 1. | Meggs, Philip B.,<br>Alston, Purvis G. | A History of Graphic Design          | X                        | Wiley             | 2016 |
| 2. | Hollis, Richard                        | A Concise History of Graphic Design  | X                        | Thames and Hudson | 2005 |
| 3. |                                        |                                      | <input type="checkbox"/> |                   |      |
| 4. |                                        |                                      | <input type="checkbox"/> |                   |      |
| 5. |                                        |                                      | <input type="checkbox"/> |                   |      |

## Required Additional Supplies and Materials (software, hardware, tools, specialized clothing, etc.)

Mac Computer, Adobe CC, flash drive. Paper, tracing paper, coloured pencils, black pens, pencils, eraser, x-acto knife, rubber cement, steel ruler, cutting mat, and tape..

## Typical Evaluation Methods and Weighting

|                |   |              |      |                   |   |            |    |
|----------------|---|--------------|------|-------------------|---|------------|----|
| Final exam:    | % | Assignments: | 100% | Midterm exam:     | % | Practicum: | %  |
| Quizzes/tests: | % | Lab work:    | %    | Field experience: | % | Shop work: | %  |
| Other:         | % | Other:       | %    | Other:            | % | Total:     | 0% |

**Details (if necessary):**

## Typical Course Content and Topics

Week 1: Course introduction.

From the industrial age to the conceptual age. Introduction to Victorian graphics and branding. The evolution of packaging.

Project 1 assigned: Victorian style "Creative Woods" brand matchbox.

Readings: Jones, Ben. 2004. Matchbox Cover Design: The evolution of and the influences on the graphical design of Matchboxes.

University of Reading. Chapter 1, Hollis.

Week 2: The Arts and Crafts Movement, Art Nouveau and the Vienna Secession.

Project 2 assigned: Art Nouveau style soap package. "Your" brand.

Student presentations assigned.

Readings: Chapters 10, 11, 12, Meggs.

Week 3: The beginning of graphic design.

New Typography. Handouts – "On Typography" Bayer, "The New Typography" Tschichold. Art Deco.

Readings: Chapter 9, 16, Hollis.

Week 4: Artists as designers – advertising, culture and propaganda. The influence of modern art: impressionism, cubism, surrealism and futurism.

Pictorial modernism, plakastil and sachplakat. War and propaganda.

Derivative design, pastiche, and image appropriation. Borrowing from time.

Project 2 due. Presentations: 1–5

Readings: Chapter 3, 4, 12, Hollis. Chapter 13, 14, Meggs.

Week 5: Avant-Garde. Modernism in Europe: Russia, Netherlands and Germany.

Dada, de Stijl, constructivism, expressionism and purism.

Innovation in design, typography and photography.

Ethical image use and copyright.

Project 3 assigned: Constructivist poster.

Presentations 6–10. Brainstorming current issues.

Readings: Chapters 5, 6, 7, Hollis.

Week 6: Avant-Garde. Modernism in Europe: Switzerland and Germany.

The Bauhaus, German Werkbund, and the Swiss Werkbund.

Presentations 11–15. Readings: Chapter 8, Hollis.

Film: Bauhaus.

Week 7: Information design: Neurath and Arntz isotypes, Beck's London Underground map, Sutnar's Sweets catalogue, and Eames' interactive exhibits.

Pre and Post WWII: Italy and Milanese Style

The International Typographic Style. Project 3 due.

Presentations 16–20

Readings: Chapters 14, 15 Hollis. Chapter 18, Meggs.

Week 8: Modernism in America: Exodus from Europe.

The designer and the art director.

Presentations 21–25

Readings: Chapter 11, 13, Hollis. Chapter 17, Meggs. Film: Herbert Matter.

Week 9: The New York School. Innovation in editorial design and advertising.

Charles and Ray Eames. Project 4 assigned. Great ideas series. Brainstorming influential people. Presentations 26–30

Readings: Chapter 19, Meggs. Film: Charles and Ray Eames.

Week 10: Corporate identity and visual symbols.

Presentations 31–35. Readings: Chapter 20, Meggs.

Film: Art and Copy.

Week 11: American civil rights, free speech, the beatniks, black arts, women's liberation, sexual revolution and the environmental movement. Cuba. Hippies in Vancouver. The occupy movement. Project 4 due.

Presentations 36–40. Readings: Chapter 18, Hollis. Handouts – Margolin, V. 1988. Rebellion, reform, and revolution: American graphic design for social change. Design Issues, Vol. 5, No. 1 (Autumn, 1988), pp. 59–70. MIT Press.

Film: Shadows.

Week 12: The conceptual image. Psychedelica, protest posters and new tools.

Project 5 assigned. Album cover.

Readings: Chapter 21, Meggs. Presentations 41–50

Film: Pirate Radio

Week 13: National styles and international influence.

Post-modern design, new wave, retro and vernacular design.

The digital revolution. Project 5 due.

Readings: Chapter 19, 20 Hollis. Chapter 22, 23, 24 Meggs. Film: Milton Glaser.

**Memo for Course Changes**

To: CACC, Alisa Webb

From: Karin Jager, GDD Department Head

Date: October 23, 2016

**Subject: Proposal for revision of GD204 Interactive Design II**

1. Summary of changes (select all that apply):
  - ☐ Six-year review
  - ☐ Number and/or course code
  - ☐ Credits and/or total hours
  - ☐ Title
  - ☐ Calendar description
  - ☒ Prerequisites and/or co-requisites
  - ☐ Frequency of course offering
  - ☐ Learning outcomes
  - ☒ Delivery methods and/or texts and resource materials
  - ☐ PLAR options, grading system, and/or evaluation methods
  - ☐ Discontinuation of course
  - ☐ Other – Please specify:
2. Rationale for change:
3. The focus of GD204 is building web application; front end development languages such as HTML5, CSS3; and deploying websites. To prepare for this course, knowledge of Adobe Illustrator and Photoshop is required, however the current prerequisite is GD202. GD202 covers additional user experience and interface design skills that are relevant and complementary, but not required. We propose revising the prerequisite to GD157 to enable greater access to GD204 for students simply seeking to learn basic web development skills in a design context. Required textbooks have been updated.
4. If there are substantial changes to the learning outcomes, explain how they align with the learning outcomes of the program(s): N/A
5. Is this course required by any program beyond the discipline? If so, how will this change affect that program or programs? N/A
6. Which program areas have been consulted about the change(s)? None
7. What consideration has been given to indigenizing the curriculum? ? This course provides the opportunity for indigenous content in projects. It will vary dependent on work undertaken by students.
8. If this course is not eligible for PLAR, explain why: N/A

9. If any of the following items on the official course outline have changed, explain how the change will affect the budget for your area or any other area: N/A
  - a. Credit value
  - b. Class size limit
  - c. Frequency of offering
  - d. Resources required (labs, equipment)
10. Are field trips required for this course? (Field trip requirements must be announced in the timetable.) How are the trips funded? N/A
11. Estimate of the typical costs for this course, including textbooks and other materials:

Tuition fee plus a \$35 materials fee, access to Mac computers, Adobe CC, tablets and GDD labs. GDD diploma students use MacBook Pro laptops with Adobe CC subscription as per program requirements. Non-diploma students will be given access to GD Mac Lab iMacs and Adobe CC.



ORIGINAL COURSE IMPLEMENTATION DATE: September 2004  
 REVISED COURSE IMPLEMENTATION DATE: September 2017  
 COURSE TO BE REVIEWED: (six years after UEC approval) January 2022  
 Course outline form version: 09/15/14

## OFFICIAL UNDERGRADUATE COURSE OUTLINE FORM

Note: The University reserves the right to amend course outlines as needed without notice.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |                              |    |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------------------------------|----|------------------|----|------------------------|--|--------------------------------------------|--|----------------------------|--|----------------------|--|--------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Course Code and Number:</b> GD 204                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | <b>Number of Credits:</b> 3 <a href="#">Course credit policy (105)</a>                                                                                                                                                                                                                                                                                                                                                                                                                         |    |                              |    |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Course Full Title:</b> Interactive Design II                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |                              |    |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Course Short Title (if title exceeds 30 characters):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |                              |    |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Faculty:</b> Faculty of Humanities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | <b>Department (or program if no department):</b> Graphic Design                                                                                                                                                                                                                                                                                                                                                                                                                                |    |                              |    |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Calendar Description:</b><br>Introduction to designing interactive and responsive pages for the web. Emphasis is on current industry standards and the role of the designer in the creation of websites using a professional web-authoring tool.<br>Note: This course uses tools and technology that vary according to current industry practice.                                                                                                                                                                                                                                                                                                                                                                                             |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |                              |    |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Prerequisites (or NONE):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | GD 157.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    |                              |    |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Corequisites (if applicable, or NONE):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |                              |    |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Prel/corequisites (if applicable, or NONE):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |                              |    |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Equivalent Courses (cannot be taken for additional credit)</b><br>Former course code/number:<br>Cross-listed with:<br>Equivalent course(s):<br><i>Note: Equivalent course(s) should be included in the calendar description by way of a note that students with credit for the equivalent course(s) cannot take this course for further credit.</i>                                                                                                                                                                                                                                                                                                                                                                                           |           | <b>Transfer Credit</b><br>Transfer credit already exists: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>Transfer credit requested (OReg to submit to BCCAT):<br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (if yes, fill in transfer credit form)<br>Resubmit revised outline for articulation: X Yes <input type="checkbox"/> No<br>To find out how this course transfers, see <a href="http://bctransferguide.ca">bctransferguide.ca</a> . |    |                              |    |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Total Hours: 60</b><br><b>Typical structure of instructional hours:</b> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr><td>Lecture hours</td><td style="text-align: right;">30</td></tr> <tr><td>Seminars/tutorials/workshops</td><td style="text-align: right;">10</td></tr> <tr><td>Laboratory hours</td><td style="text-align: right;">20</td></tr> <tr><td>Field experience hours</td><td></td></tr> <tr><td>Experiential (practicum, internship, etc.)</td><td></td></tr> <tr><td>Online learning activities</td><td></td></tr> <tr><td>Other contact hours:</td><td></td></tr> <tr><td style="text-align: right;"><b>Total</b></td><td style="text-align: right;"><b>60</b></td></tr> </table> |           | Lecture hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 30 | Seminars/tutorials/workshops | 10 | Laboratory hours | 20 | Field experience hours |  | Experiential (practicum, internship, etc.) |  | Online learning activities |  | Other contact hours: |  | <b>Total</b> | <b>60</b> | <b>Special Topics</b><br>Will the course be offered with different topics?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>If yes, different lettered courses may be taken for credit:<br><input type="checkbox"/> No <input type="checkbox"/> Yes, repeat(s) <input type="checkbox"/> Yes, no limit<br><i>Note: The specific topic will be recorded when offered.</i> |  |
| Lecture hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 30        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |                              |    |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Seminars/tutorials/workshops                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 10        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |                              |    |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Laboratory hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 20        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |                              |    |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Field experience hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |                              |    |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Experiential (practicum, internship, etc.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |                              |    |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Online learning activities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |                              |    |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Other contact hours:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |                              |    |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>60</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |                              |    |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | <b>Maximum enrolment (for information only):</b> 24<br><b>Expected frequency of course offerings (every semester, annually, every other year, etc.):</b> Annually                                                                                                                                                                                                                                                                                                                              |    |                              |    |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Department / Program Head or Director:</b> Karin Jager                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | <b>Date approved:</b> October 23, 2016                                                                                                                                                                                                                                                                                                                                                                                                                                                         |    |                              |    |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Faculty Council approval</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           | <b>Date approved:</b> November 2016                                                                                                                                                                                                                                                                                                                                                                                                                                                            |    |                              |    |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Campus-Wide Consultation (CWC)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | <b>Date of posting:</b> December 9, 2016                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                              |    |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Dean/Associate VP:</b> Jacqueline Nolte                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | <b>Date approved:</b> November 2016                                                                                                                                                                                                                                                                                                                                                                                                                                                            |    |                              |    |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Undergraduate Education Committee (UEC) approval</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           | <b>Date of meeting:</b> January 27, 2017                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |                              |    |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |

GD 204

University of the Fraser Valley Official Undergraduate Course Outline

Page 2 of 2

## Learning Outcomes

Upon successful completion of this course, students will be able to:

- Apply the principles and processes of interactive design
- Use professional site authoring tools
- Apply HTML5, CSS3, and JavaScript in front-end development
- Develop basic responsive web design (RWD) with the appropriate interface software
- Describe the different layouts and constraints to consider when building an interactive document for various online platforms
- Identify practices of responsive web design using advanced cascading stylesheets
- Implement appropriate testing strategies for online platforms and develop web design solutions based on the results
- Utilize text tools
- Create, manage, and modify a website using current web standards

## Prior Learning Assessment and Recognition (PLAR)

☒ Yes ☐ No, PLAR cannot be awarded for this course because

**Typical Instructional Methods** (guest lecturers, presentations, online instruction, field trips, etc.; may vary at department's discretion)

Laboratory instruction, Lecture, Tutorials, Examination of source files, Project and independent study, Audiovisual materials

**Grading system:** Letter Grades: ☒ Credit/No Credit: ☐ Labs to be scheduled independent of lecture hours: Yes ☐ No ☒

**NOTE:** The following sections may vary by instructor. Please see course syllabus available from the instructor.

## Typical Text(s) and Resource Materials (if more space is required, download Supplemental Texts and Resource Materials form)

| Author (surname, initials) | Title (article, book, journal, etc.)  | Current ed.              | Publisher       | Year |
|----------------------------|---------------------------------------|--------------------------|-----------------|------|
| 1. Duckett, John           | HTML & CSS: Design and Build Websites | <input type="checkbox"/> | John Wiley Sons | 2011 |
| 2.                         | Subscription to Lynda.com             | <input type="checkbox"/> |                 |      |
| 3.                         |                                       | <input type="checkbox"/> |                 |      |
| 4.                         |                                       | <input type="checkbox"/> |                 |      |
| 5.                         |                                       | <input type="checkbox"/> |                 |      |

## Required Additional Supplies and Materials (software, hardware, tools, specialized clothing, etc.)

Macintosh computer, Flash drive, Adobe CC current edition

## Typical Evaluation Methods and Weighting

|                |     |              |     |                   |   |            |      |
|----------------|-----|--------------|-----|-------------------|---|------------|------|
| Final exam:    | %   | Assignments: | 80% | Midterm exam:     | % | Practicum: | %    |
| Quizzes/tests: | 20% | Lab work:    | %   | Field experience: | % | Shop work: | %    |
| Other:         | %   | Other:       | %   | Other:            | % | Total:     | 100% |

**Details (if necessary):**

## Typical Course Content and Topics

1. Introduction to course content: design, composition, and construction of interactive page design. Introduction to projects
2. Introduction to software capabilities and limitations
3. Software navigation and terminology. Introduction to HTML concepts and integration of forms within HTML page
4. & 5. Continuation of project work according to graduated outlines in preceding works; composition of simple images and consideration of sound components; implementation of site control; importing 3rd party files; building links within the page
6. Creating and modifying tools in layout.
7. & 8. Creating and modifying frames and utilizing parascript
9. & 10. Design challenges of typography on the web; utilizing text tools
11. & 12. Continuation of projects and ongoing individual critiques of work based on visual and sensory literacy
13. Presentations and group critique

**Memo for Course Changes**

To: CACC

From: Steve Schroeder, Teaching Chair, Peace and Conflict Studies

Date: 25 October 2016

**Subject: Proposal for revision of PACS 390**

1. Summary of changes (select all that apply):
  - ☐ Six-year review
  - ☐ Number and/or course code
  - ☐ Credits and/or total hours
  - ☐ Title
  - ☐ Calendar description
  - ☒ Prerequisites and/or co-requisites
  - ☐ Frequency of course offering
  - ☒ Learning outcomes
  - ☐ Delivery methods and/or texts and resource materials
  - ☐ PLAR options, grading system, and/or evaluation methods
  - ☐ Discontinuation of course
  - ☐ Other – Please specify:
2. Rationale for change: program consistency in the area of student course and field work at the end of the PACS degree. Students will have faculty and program Chair approval for these courses.
3. If there are substantial changes to the learning outcomes, explain how they align with the learning outcomes of the program(s): The course learning outcomes have been edited to reflect the requisite analytical and applied components of the PACS program learning outcomes.
4. Is this course required by any program beyond the discipline? If so, how will this change affect that program or programs? NO
5. Which program areas have been consulted about the change(s)? NONE
6. What consideration has been given to indigenizing the curriculum? Yes; plenty of program components include indigenous content, but this aspect is not specifically relevant for these minor course changes.
7. If this course is not eligible for PLAR, explain why: N/A
8. If any of the following items on the official course outline have changed, explain how the change will affect the budget for your area or any other area: N/A
  - a. Credit value
  - b. Class size limit
  - c. Frequency of offering
  - d. Resources required (labs, equipment)
9. Are field trips required for this course? (Field trip requirements must be announced in the timetable.) How are the trips funded? N/A
10. Estimate of the typical costs for this course, including textbooks and other materials: STANDARD 3-CR COURSE FEES



ORIGINAL COURSE IMPLEMENTATION DATE: January 2015  
 REVISED COURSE IMPLEMENTATION DATE: September 2017  
 COURSE TO BE REVIEWED: (six years after UEC approval) October 2020  
 Course outline form version: 11/22/13

## OFFICIAL UNDERGRADUATE COURSE OUTLINE FORM

**Note:** The University reserves the right to amend course outlines as needed without notice.

**Course Code and Number:** PACS 390

**Number of Credits:** 3 [Course credit policy \(105\)](#)

**Course Full Title:** Conflict Analysis and Peacebuilding Directed Study

**Course Short Title:** Conflict & Peace Directed Study

**Faculty:** Faculty of Social Sciences

**Department (or program if no department):** Peace and Conflict Studies

### Calendar Description:

This course is an intensive study of a particular aspect of the field of Peace and Conflict Studies. In consultation with the supervising professor, students will select a specific concept or case for examination.

**Prerequisites (or NONE):** 60 university-level credits including PACS 100, PACS 200, PACS 310, and GEOG 346 and (one of HSER 120 or CMNS 180), and permission of the PACS Program Coordinator.

**Corequisites (if applicable, or NONE):**

**Pre/corequisites (if applicable, or NONE):**

### Equivalent Courses (cannot be taken for additional credit)

Former course code/number:

Cross-listed with:

Equivalent course(s):

*Note: Equivalent course(s) should be included in the calendar description by way of a note that students with credit for the equivalent course(s) cannot take this course for further credit.*

### Transfer Credit

Transfer credit already exists: ☐ Yes ☒ No

Transfer credit requested (OReg to submit to BCCAT):

☐ Yes ☒ No (Note: If yes, fill in transfer credit form)

Resubmit revised outline for articulation: ☐ Yes ☐ No

To find out how this course transfers, see [bctransferguide.ca](http://bctransferguide.ca).

**Total Hours:** 60

### Typical structure of instructional hours:

|                                            |           |
|--------------------------------------------|-----------|
| Lecture hours                              |           |
| Seminars/tutorials/workshops               | 40        |
| Laboratory hours                           |           |
| Field experience hours                     |           |
| Experiential (practicum, internship, etc.) |           |
| Online learning activities                 |           |
| Other contact hours: reading reports       | 20        |
| <b>Total</b>                               | <b>60</b> |

### Special Topics

Will the course be offered with different topics?

☐ Yes ☒ No

If yes,

Different lettered courses may be taken for credit:

☐ No ☐ Yes, repeat(s) ☐ Yes, no limit

*Note: The specific topic will be recorded when offered.*

**Maximum enrolment (for information only):** 6

**Expected frequency of course offerings**  
(every semester, annually, etc.): annually

**Department / Program Head or Director:** Dr. Steven Schroeder

**Date approved:** November 2016

**Campus-Wide Consultation (CWC)**

**Date of posting:** January 6, 2017

**Faculty Council approval**

**Date approved:** November 2016

**Dean/Associate VP:** Dr. Jacqueline Nolte

**Date approved:** November 2016

**Undergraduate Education Committee (UEC) approval**

**Date of meeting:** January 27, 2017

PACS 390

University of the Fraser Valley Official Undergraduate Course Outline

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## Learning Outcomes

Upon successful completion of this course, students will be able to:

- Identify in their directed study project the key components that engendered the conflict, and the most viable prospects for peace
- Identify the most suitable peacebuilding methods to transform the conflict in the directed study
- Apply peacebuilding methodology to the analysis of specific real-life scenarios in the directed study
- Evaluate the effectiveness of these methods and suggest alternatives in relation to the specific aspects of the directed study
- Propose how the peacebuilding methods utilized in this study could have a positive impact in other conflict scenarios
- Additional specific learning outcomes will be determined by the professor, depending on the content of the study

## Prior Learning Assessment and Recognition (PLAR)

☐ Yes ☒ No, PLAR cannot be awarded for this course because this course includes components that are unique to the PACS major at UFV.

## Typical Instructional Methods (guest lecturers, presentations, online instruction, field trips, etc.; may vary at department's discretion)

Delivery methods include: regular tutorials based on the assigned readings and a final presentation in which students will report on the respective readings.

**NOTE: The following sections may vary by instructor. Please see course syllabus available from the instructor.**

## Typical Text(s) and Resource Materials (if more space is required, download supplemental Texts and Resource Materials form)

|    | <u>Author Surname,<br/>Initials</u> | <u>Title (article, book, journal, etc.)</u>                     | <u>Current Edition</u>              | <u>Place of<br/>Publication</u> | <u>Year<br/>Published</u> |
|----|-------------------------------------|-----------------------------------------------------------------|-------------------------------------|---------------------------------|---------------------------|
| 1. | Sandole, D.,<br>Byrne, S.           | Handbook of Conflict Analysis and Resolution                    | <input checked="" type="checkbox"/> | New York                        | 2009                      |
| 2. | Lederach, J. P.                     | Building Peace: Sustainable Reconciliation in Divided Societies | <input checked="" type="checkbox"/> | Washington,<br>D.C.             | 1997                      |
| 3. | Lederach, J. P.                     | The Little Book of Conflict Transformation                      | <input checked="" type="checkbox"/> | Pennsylvania                    | 2003                      |
| 4. | Philpott, D. and<br>Powers, G.      | Strategies of Peace: Transforming Conflict in a Violent World   | <input checked="" type="checkbox"/> | Oxford                          | 2010                      |
| 5. | Barash, D. and<br>Webel, C.         | Peace and Conflict Studies                                      | <input checked="" type="checkbox"/> | Los Angeles                     | 2009                      |

## Required Additional Supplies and Materials (Eg. Software, hardware, tools, specialized clothing)

## Typical Evaluation Methods and Weighting

|                |   |              |     |                      |     |            |      |
|----------------|---|--------------|-----|----------------------|-----|------------|------|
| Final exam:    | % | Assignments: | 60% | Midterm exam:        | %   | Practicum: | %    |
| Quizzes/tests: | % | Lab work:    | %   | Field experience:    | 0%  | Shop work: | %    |
| Other:         | % | Other:       | %   | Reading Presentation | 40% | Total:     | 100% |

**Grading system:** Letter Grades: ☒ Credit/No Credit: ☐ Labs to be scheduled independent of lecture hours: Yes ☐ No ☒

## Typical Course Content and Topics

Specific course content will be determined by the professor at the beginning of the course.

**Memo for Course Changes**

To: CACC

From: Steve Schroeder, Teaching Chair, Peace and Conflict Studies

Date: 25 October 2016

**Subject: Proposal for revision of PACS 391**

1. Summary of changes (select all that apply):
  - ☐ Six-year review
  - ☐ Number and/or course code
  - ☐ Credits and/or total hours
  - ☐ Title
  - ☐ Calendar description
  - ☒ Prerequisites and/or co-requisites
  - ☐ Frequency of course offering
  - ☒ Learning outcomes
  - ☐ Delivery methods and/or texts and resource materials
  - ☐ PLAR options, grading system, and/or evaluation methods
  - ☐ Discontinuation of course
  - ☐ Other – Please specify:
2. Rationale for change: program consistency in the area of student course and field work at the end of the PACS degree. Students will have faculty and program Chair approval for these courses.
3. If there are substantial changes to the learning outcomes, explain how they align with the learning outcomes of the program(s): The course learning outcomes have been edited to reflect the requisite analytical and applied components of the PACS program learning outcomes.
4. Is this course required by any program beyond the discipline? If so, how will this change affect that program or programs? NO
5. Which program areas have been consulted about the change(s)? NONE
6. What consideration has been given to indigenizing the curriculum? Yes; plenty of program components include indigenous content, but this aspect is not specifically relevant for these minor course changes.
7. If this course is not eligible for PLAR, explain why: N/A
8. If any of the following items on the official course outline have changed, explain how the change will affect the budget for your area or any other area: N/A
  - a. Credit value
  - b. Class size limit
  - c. Frequency of offering
  - d. Resources required (labs, equipment)
9. Are field trips required for this course? (Field trip requirements must be announced in the timetable.) How are the trips funded? N/A
10. Estimate of the typical costs for this course, including textbooks and other materials: STANDARD 3-CR COURSE FEES



ORIGINAL COURSE IMPLEMENTATION DATE: January 2015  
 REVISED COURSE IMPLEMENTATION DATE: September 2017  
 COURSE TO BE REVIEWED: (six years after UEC approval) September 2020  
 Course outline form version: 11/22/13

## OFFICIAL UNDERGRADUATE COURSE OUTLINE FORM

**Note: The University reserves the right to amend course outlines as needed without notice.**

**Course Code and Number:** PACS 391

**Number of Credits:** 3 [Course credit policy \(105\)](#)

**Course Full Title:** Conflict Analysis and Peacebuilding Field Work

**Course Short Title:** Conflict & Peace Field Work

**Faculty:** Faculty of Social Sciences

**Department (or program if no department):** Peace and Conflict Studies

**Calendar Description:**

This course centers on a real-life scenario that incorporates the central components of Peace and Conflict Studies. In consultation with the supervising professor, students will find placement in a peacebuilding organization, which will provide the basis for their field work project.

**Prerequisites (or NONE):** 60 university-level credits including PACS 100, PACS 200, PACS 310, and GEOG 346 and (one of HSER 120 or CMNS 180), and permission of the PACS Program Coordinator.

**Corequisites (if applicable, or NONE):**

**Pre/corequisites (if applicable, or NONE):**

**Equivalent Courses (cannot be taken for additional credit)**

Former course code/number:

Cross-listed with:

Equivalent course(s):

*Note: Equivalent course(s) should be included in the calendar description by way of a note that students with credit for the equivalent course(s) cannot take this course for further credit.*

**Transfer Credit**

Transfer credit already exists: ☐ Yes ☒ No

Transfer credit requested (OREg to submit to BCCAT):

☐ Yes ☒ No (Note: If yes, fill in transfer credit form)

Resubmit revised outline for articulation: ☐ Yes ☐ No

To find out how this course transfers, see [bctransferguide.ca](http://bctransferguide.ca).

**Total Hours: 60**

**Typical structure of instructional hours:**

|                                            |           |
|--------------------------------------------|-----------|
| Lecture hours                              |           |
| Seminars/tutorials/workshops               | 10        |
| Laboratory hours                           |           |
| Field experience hours                     | 40        |
| Experiential (practicum, internship, etc.) |           |
| Online learning activities                 |           |
| Other contact hours: consultation          | 10        |
| <b>Total</b>                               | <b>60</b> |

**Special Topics**

Will the course be offered with different topics?

☐ Yes ☒ No

If yes,

Different lettered courses may be taken for credit:

☐ No ☐ Yes, repeat(s) ☐ Yes, no limit

*Note: The specific topic will be recorded when offered.*

**Maximum enrolment (for information only):** 10

**Expected frequency of course offerings**  
(every semester, annually, etc.): annually

**Department / Program Head or Director:** Dr. Steven Schroeder

**Date approved:** November 2016

**Campus-Wide Consultation (CWC)**

**Date of posting:** January 6, 2017

**Faculty Council approval**

**Date approved:** November 2016

**Dean/Associate VP:** Dr. Jacqueline Nolte

**Date approved:** November 2016

**Undergraduate Education Committee (UEC) approval**

**Date of meeting:** January 27, 2017

**Learning Outcomes**

Upon successful completion of this course, students will be able to:

- Identify in their field work appointment the key components that engendered the conflict through a thorough conflict analysis
- Propose a strategic peacebuilding plan for the conflict inherent in their field work appointment
- Define their role in the peacebuilding work during the field experience
- Apply peacebuilding methods flexibly and sensitively to the specific real-life scenarios in the field work project
- Evaluate the approach of the peacebuilding organization with whom they are working
- Evaluate the effectiveness of the approach and methods employed in the field work, and suggest alternatives
- Propose how the peacebuilding methods utilized in this study could have a positive impact in other conflict scenarios

**Prior Learning Assessment and Recognition (PLAR)**

☐ Yes ☒ No, PLAR cannot be awarded for this course because this course includes components that are unique to the PACS major at UFV.

**Typical Instructional Methods (guest lecturers, presentations, online instruction, field trips, etc.; may vary at department's discretion)**

Delivery methods include: consultation with the supervising professor, field work in a peacebuilding organization, field work project conceptualization, and presentation of the field work experience in a seminar that concludes the course.

**NOTE: The following sections may vary by instructor. Please see course syllabus available from the instructor.**

**Typical Text(s) and Resource Materials (if more space is required, download supplemental Texts and Resource Materials form)**

|    | <u>Author Surname,<br/>Initials</u> | <u>Title (article, book, journal, etc.)</u>                     | <u>Current Edition</u>              | <u>Place of<br/>Publication</u> | <u>Year<br/>Published</u> |
|----|-------------------------------------|-----------------------------------------------------------------|-------------------------------------|---------------------------------|---------------------------|
| 1. | Sandole, D.,<br>Byrne, S.           | Handbook of Conflict Analysis and Resolution                    | <input checked="" type="checkbox"/> | New York                        | 2009                      |
| 2. | Lederach, J. P.                     | Building Peace: Sustainable Reconciliation in Divided Societies | <input checked="" type="checkbox"/> | Washington, DC                  | 1997                      |
| 3. | Lederach, J. P.                     | The Little Book of Conflict Transformation                      | <input checked="" type="checkbox"/> | Pennsylvania                    | 2003                      |
| 4. | Philpott, D. and Powers, G.         | Strategies of Peace: Transforming Conflict in a Violent World   | <input checked="" type="checkbox"/> | Oxford                          | 2010                      |
| 5. | Barash, D. and Webel, C.            | Peace and Conflict Studies                                      | <input checked="" type="checkbox"/> | Los Angeles                     | 2009                      |

**Required Additional Supplies and Materials (Eg. Software, hardware, tools, specialized clothing)**

**Typical Evaluation Methods and Weighting**

|                |   |              |   |                       |     |            |      |
|----------------|---|--------------|---|-----------------------|-----|------------|------|
| Final exam:    | % | Assignments: | % | Midterm exam:         | %   | Practicum: | %    |
| Quizzes/tests: | % | Lab work:    | % | Field experience:     | 60% | Shop work: | %    |
| Other:         | % | Other:       | % | Seminar Presentation: | 40% | Total:     | 100% |

**Grading system:** Letter Grades: ☒ Credit/No Credit: ☐ Labs to be scheduled independent of lecture hours: Yes ☐ No ☒

**Typical Course Content and Topics**

Course content will be determined by the professor at the beginning of the course.

Students will consult with their professor and establish placement with a local organization that is involved in relief, development, homelessness, and/or advocacy.

**Memo for Course Changes**

To: UEC

From: Allan Arndt, Biology Department Head

Date: July 2016

**Subject: Proposal for revision of BIO 201 Cell Biochemistry/Metabolism**

1. Summary of changes (select all that apply):

- ☐ Six-year review
- ☐ Number and/or course code
- ☐ Credits and/or total hours
- ☐ Title
- ☐ Calendar description
- ☒ Prerequisites and/or co-requisites
- ☐ Frequency of course offering
- ☐ Learning outcomes
- ☐ Delivery methods and/or texts and resource materials
- ☐ PLAR options, grading system, and/or evaluation methods
- ☐ Discontinuation of course
- ☐ Other – Please specify:

2. Rationale for change: *This will allow agriculture students to register without a waiver.*

3. If there are substantial changes to the learning outcomes, explain how they align with the learning outcomes of the program(s): *No changes*

4. Is this course required by any program beyond the discipline? If so, how will this change affect that program or programs? *This will allow agriculture students to register without a waiver.*

5. Which program areas have been consulted about the change(s)? *Agriculture, Bachelor of Agriculture Science Implementation Committee*

What consideration has been given to indigenizing the curriculum? *Indigenization is encouraged at the program level through breadth/elective requirements where students can choose from courses where indigenization is appropriate to the course content and discipline.*

6. If this course is not eligible for PLAR, explain why: *This course is eligible for PLAR.*

7. If any of the following items on the official course outline have changed, explain how the change will affect the budget for your area or any other area: *None of these items have changed.*

- a. Credit value
- b. Class size limit
- c. Frequency of offering
- d. Resources required (labs, equipment)

8. Are field trips required for this course? (Field trip requirements must be announced in the timetable.) How are the trips funded? *Field trips are not required.*
9. Estimate of the typical costs for this course, including textbooks and other materials: \$188.95  
(textbook)



ORIGINAL COURSE IMPLEMENTATION DATE: June 1994  
 REVISED COURSE IMPLEMENTATION DATE: September 2017  
 COURSE TO BE REVIEWED: (six years after UEC approval) December 2020  
 Course outline form version: 09/15/14

## OFFICIAL UNDERGRADUATE COURSE OUTLINE FORM

Note: The University reserves the right to amend course outlines as needed without notice.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------------------------------|--|------------------|----|------------------------|--|--------------------------------------------|--|----------------------------|--|----------------------|--|--------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Course Code and Number:</b> BIO 201                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | <b>Number of Credits:</b> 4 <a href="#">Course credit policy (105)</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Course Full Title:</b> Cell Biochemistry/Metabolism                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Course Short Title (if title exceeds 30 characters):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | <b>Department (or program if no department):</b> Biology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Calendar Description:</b><br>The biochemistry, structure, and function of cellular components are studied. Students examine pathways of chemotrophic and phototrophic metabolism in cells, focusing on cellular energy flow and control. Laboratory exercises emphasize the experimental evidence underlying current understanding of cell biochemistry and metabolism.                                                                                                                                                                                                                                                                                                                                                    |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Prerequisites (or NONE):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | One of the following: (BIO 112 and CHEM 114) or (any three AGRI courses numbered 100 or higher) or (BIO 111, [CHEM 110 or CHEM 113], and [two of the following: AGRI 123, AGRI 124, AGRI 129, AGRI 163, AGRI 203, AGRI 204, or AGRI 220]), all with a C+ or better. Note: As of January 2018, prerequisites will change to the following: One of the following: (BIO 112 and CHEM 114) or (BIO 111, [CHEM 110 or CHEM 113], and [two of the following: AGRI 123, AGRI 124, AGRI 129, AGRI 163, AGRI 203, AGRI 204, or AGRI 220]), all with a C+ or better. |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Corequisites (if applicable, or NONE):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Pre/corequisites (if applicable, or NONE):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Equivalent Courses (cannot be taken for additional credit)</b><br>Former course code/number:<br>Cross-listed with:<br>Equivalent course(s):<br><i>Note: Equivalent course(s) should be included in the calendar description by way of a note that students with credit for the equivalent course(s) cannot take this course for further credit.</i>                                                                                                                                                                                                                                                                                                                                                                        |           | <b>Transfer Credit</b><br>Transfer credit already exists: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>Transfer credit requested (OREg to submit to BCCAT):<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (if yes, fill in transfer credit form)<br>Resubmit revised outline for articulation: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>To find out how this course transfers, see <a href="http://bctransferguide.ca">bctransferguide.ca</a> .                           |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Total Hours: 90</b><br><b>Typical structure of instructional hours:</b> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Lecture hours</td> <td style="text-align: center;">45</td> </tr> <tr> <td>Seminars/tutorials/workshops</td> <td></td> </tr> <tr> <td>Laboratory hours</td> <td style="text-align: center;">45</td> </tr> <tr> <td>Field experience hours</td> <td></td> </tr> <tr> <td>Experiential (practicum, internship, etc.)</td> <td></td> </tr> <tr> <td>Online learning activities</td> <td></td> </tr> <tr> <td>Other contact hours:</td> <td></td> </tr> <tr> <td style="text-align: right;"><b>Total</b></td> <td style="text-align: center;"><b>90</b></td> </tr> </table> |           | Lecture hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 45 | Seminars/tutorials/workshops |  | Laboratory hours | 45 | Field experience hours |  | Experiential (practicum, internship, etc.) |  | Online learning activities |  | Other contact hours: |  | <b>Total</b> | <b>90</b> | <b>Special Topics</b><br>Will the course be offered with different topics?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>If yes, different lettered courses may be taken for credit:<br><input type="checkbox"/> No <input type="checkbox"/> Yes, repeat(s) <input type="checkbox"/> Yes, no limit<br><i>Note: The specific topic will be recorded when offered.</i> |  |
| Lecture hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 45        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Seminars/tutorials/workshops                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Laboratory hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 45        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Field experience hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Experiential (practicum, internship, etc.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Online learning activities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Other contact hours:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>90</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | <b>Maximum enrolment (for information only): 24</b><br><b>Expected frequency of course offerings (every semester, annually, every other year, etc.):</b> annually                                                                                                                                                                                                                                                                                                                                                                                          |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Department / Program Head or Director:</b> Allan Arndt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           | <b>Date approved:</b> July 27, 2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Faculty Council approval</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |           | <b>Date approved:</b> October 2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Campus-Wide Consultation (CWC)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | <b>Date of posting:</b> November 18, 2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Dean/Associate VP:</b> Lucy Lee                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | <b>Date approved:</b> October 2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Undergraduate Education Committee (UEC) approval</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |           | <b>Date of meeting:</b> January 27, 2017                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |

**Learning Outcomes**

Upon successful completion of this course, students will be able to:

1. Identify the structure and function of the four main classes of biological macromolecules.
2. Describe and quantify the basic central eukaryotic metabolic pathways involved with cellular respiration and photosynthesis.
3. Calculate free energy changes for important biological reactions.
4. Explain the basic structure and function of cellular membranes.
5. Describe the transport processes which occur in cells and how cellular homeostasis is maintained.
6. Work in small groups in a biology laboratory setting gathering real, experimental data.
7. Analyze and interpret scientific experimental data and be able to make proper summary graphs and tables.
8. Perform laboratory skills such as proper pipetting procedures, use of spectrophotometers, protein gel electrophoresis, use of gas chromatograph, etc.

**Prior Learning Assessment and Recognition (PLAR)**

☒ Yes      ☐ No, PLAR cannot be awarded for this course because

**Typical Instructional Methods (guest lecturers, presentations, online instruction, field trips, etc.; may vary at department's discretion)**

Lectures, laboratory exercises and reports, problem sets.

**Grading system:** Letter Grades: ☒ Credit/No Credit: ☐ Labs to be scheduled independent of lecture hours: Yes ☒ No ☐

**NOTE: The following sections may vary by instructor. Please see course syllabus available from the instructor.**

**Typical Text(s) and Resource Materials (if more space is required, download Supplemental Texts and Resource Materials form)**

| Author (surname, initials) | Title (article, book, journal, etc.) | Current ed.                         | Publisher | Year |
|----------------------------|--------------------------------------|-------------------------------------|-----------|------|
| 1. Hardin                  | Becker's World of the Cell           | <input checked="" type="checkbox"/> | Pearson   | 2015 |

**Typical Evaluation Methods and Weighting**

|                |     |              |     |                   |     |            |      |
|----------------|-----|--------------|-----|-------------------|-----|------------|------|
| Final exam:    | 35% | Assignments: | %   | Midterm exam:     | 25% | Practicum: | %    |
| Quizzes/tests: | 10% | Lab work:    | 30% | Field experience: | %   | Total:     | 100% |

**Typical Course Content and Topics**

Biological molecules

- Amino acids, properties of R groups
- Protein structure
- Sugars; polysaccharides
- Storage lipids, and introduction to membrane lipids
- Nucleotides (roles in ATP and co-factors)
- Introduction to nucleic acids

Bioenergetics and enzymes

- Free energy changes in chemical reactions
- Enzyme structure and function, including regulation
- Introduction to enzyme kinetics

Movement of molecules from cell to cell and within the cell

- Membrane lipids and their role in membrane structure
- Transport of molecules across membranes
- Energetics of membrane transport
- Implications of membrane transport in nerve function
- Extracellular structures and their role in cell-cell communication
- The endomembrane system and its role in sorting proteins

Energy flow in cells

- Glycolysis and fermentation
- Regulation of glycolysis and fermentation
- Aerobic respiration in mitochondria: the TCA cycle and electron transport
- Proton gradient and ATP formation
- Chloroplasts and energy harvesting
- Photosynthetic carbon fixation; photorespiration, CAM, and C4 photosynthesis.

Lab exercises

- Photometric assays
- Isolation of protein fractions from porcine serum
- Electrophoresis of protein fractions from porcine serum
- Enzyme kinetics of acid phosphatase
- Thin Layer chromatography to separate fats from naturally-occurring lecithin
- Cell respiration in yeast cells
- Use of inhibitors to probe mitochondrial electron transport
- Chloroplast isolation and measurement of electron flow through PSII

**Memo for Course Changes**

To: UEC

From: Allan Arndt, Biology Department Head

Date: July 2016

**Subject: Proposal for revision of BIO 210 Introduction to Ecology**

1. Summary of changes (select all that apply):

- ☒ Six-year review
- ☐ Number and/or course code
- ☐ Credits and/or total hours
- ☐ Title
- ☒ Calendar description
- ☒ Prerequisites and/or co-requisites
- ☐ Frequency of course offering
- ☐ Learning outcomes
- ☐ Delivery methods and/or texts and resource materials
- ☐ PLAR options, grading system, and/or evaluation methods
- ☐ Discontinuation of course
- ☐ Other – Please specify:

2. Rationale for change: *Prerequisites - this will allow agriculture students to register without a waiver. Calendar description – shortened to fall within the 40 word max.*

3. If there are substantial changes to the learning outcomes, explain how they align with the learning outcomes of the program(s): *No changes*

4. Is this course required by any program beyond the discipline? If so, how will this change affect that program or programs? *This will allow agriculture students to register without a waiver.*

5. Which program areas have been consulted about the change(s)? *Agriculture, Bachelor of Agriculture Science Implementation Committee*

What consideration has been given to indigenizing the curriculum? *Indigenization is encouraged at the program level through breadth/elective requirements where students can choose from courses where indigenization is appropriate to the course content and discipline.*

6. If this course is not eligible for PLAR, explain why: *This course is eligible for PLAR.*

7. If any of the following items on the official course outline have changed, explain how the change will affect the budget for your area or any other area: *None of these items have changed.*

- a. Credit value
- b. Class size limit
- c. Frequency of offering
- d. Resources required (labs, equipment)

8. Are field trips required for this course? (Field trip requirements must be announced in the timetable.) How are the trips funded? *Field trips are not required.*
9. Estimate of the typical costs for this course, including textbooks and other materials: *\$196.50 (textbook)*



**ORIGINAL COURSE IMPLEMENTATION DATE:**

November 1993

**REVISED COURSE IMPLEMENTATION DATE:**

September 2017

**COURSE TO BE REVIEWED:** (six years after UEC approval)

January 2023

**Course outline form version: 09/15/14**

## OFFICIAL UNDERGRADUATE COURSE OUTLINE FORM

**Note:** The University reserves the right to amend course outlines as needed without notice.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------------------------------|--|------------------|----|------------------------|--|--------------------------------------------|--|----------------------------|--|----------------------|--|--------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Course Code and Number:</b> BIO 210                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           | <b>Number of Credits:</b> 4 <a href="#">Course credit policy (105)</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                           |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Course Full Title:</b> Introduction to Ecology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Course Short Title (if title exceeds 30 characters):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Faculty:</b> Faculty of Science                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | <b>Department (or program if no department):</b> Biology                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Calendar Description:</b><br>This course is an introduction to the basic principles of ecological theory relating to the structure and function of ecosystems and examines the various ways in which organisms interact. This course also includes mandatory field trips.                                                                                                                                                                                                                                                                                   |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Prerequisites (or NONE):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | One of the following: BIO 112 or (BIO 111, AGRI 163, and AGRI 203).                                                                                                                                                                                                                                                                                                                                                                                                                                                              |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Corequisites (if applicable, or NONE):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Pre/corequisites (if applicable, or NONE):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Equivalent Courses (cannot be taken for additional credit)</b><br>Former course code/number:<br>Cross-listed with:<br>Equivalent course(s):<br><i>Note: Equivalent course(s) should be included in the calendar description by way of a note that students with credit for the equivalent course(s) cannot take this course for further credit.</i>                                                                                                                                                                                                         |           | <b>Transfer Credit</b><br>Transfer credit already exists: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>Transfer credit requested (OREg to submit to BCCAT):<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (if yes, fill in transfer credit form)<br>Resubmit revised outline for articulation: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>To find out how this course transfers, see <a href="http://bctransferguide.ca">bctransferguide.ca</a> . |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Total Hours: 90</b><br><b>Typical structure of instructional hours:</b> <table border="1"> <tr> <td>Lecture hours</td> <td>45</td> </tr> <tr> <td>Seminars/tutorials/workshops</td> <td></td> </tr> <tr> <td>Laboratory hours</td> <td>45</td> </tr> <tr> <td>Field experience hours</td> <td></td> </tr> <tr> <td>Experiential (practicum, internship, etc.)</td> <td></td> </tr> <tr> <td>Online learning activities</td> <td></td> </tr> <tr> <td>Other contact hours:</td> <td></td> </tr> <tr> <td><b>Total</b></td> <td><b>90</b></td> </tr> </table> |           | Lecture hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 45 | Seminars/tutorials/workshops |  | Laboratory hours | 45 | Field experience hours |  | Experiential (practicum, internship, etc.) |  | Online learning activities |  | Other contact hours: |  | <b>Total</b> | <b>90</b> | <b>Special Topics</b><br>Will the course be offered with different topics?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>If yes, different lettered courses may be taken for credit:<br><input type="checkbox"/> No <input type="checkbox"/> Yes, repeat(s) <input type="checkbox"/> Yes, no limit<br><i>Note: The specific topic will be recorded when offered.</i> |  |
| Lecture hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 45        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Seminars/tutorials/workshops                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Laboratory hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 45        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Field experience hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Experiential (practicum, internship, etc.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Online learning activities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Other contact hours:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>90</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | <b>Maximum enrolment (for information only):</b> 24<br><b>Expected frequency of course offerings (every semester, annually, every other year, etc.):</b> annually                                                                                                                                                                                                                                                                                                                                                                |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Department / Program Head or Director:</b> Allan Arndt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           | <b>Date approved:</b> July 27, 2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Faculty Council approval</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           | <b>Date approved:</b> October 2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Campus-Wide Consultation (CWC)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           | <b>Date of posting:</b> November 18, 2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Dean/Associate VP:</b> Lucy Lee                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | <b>Date approved:</b> October 2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Undergraduate Education Committee (UEC) approval</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           | <b>Date of meeting:</b> January 27, 2017                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |

**Learning Outcomes**

Upon successful completion of this course, students will be able to:

1. Explain how global climate patterns determine the distribution of Earth's major biomes
2. Discuss basic ecological processes that affect individuals, populations, and communities of organisms
3. Identify local plant species
4. Conduct basic vegetation surveys
5. Make assessments of stream habitat and water quality
6. Apply statistical analyses to ecological data and present this information in both written and oral formats

**Prior Learning Assessment and Recognition (PLAR)**

☒ Yes      ☐ No, PLAR cannot be awarded for this course because

**Typical Instructional Methods (guest lecturers, presentations, online instruction, field trips, etc.; may vary at department's discretion)**

Instruction will include a combination of lectures, group work in class, video and oral presentations, laboratory and field exercises, as well as design and execution of a group field investigation.

**Grading system:** Letter Grades: ☒ Credit/No Credit: ☐ Labs to be scheduled independent of lecture hours: Yes ☒ No ☐

**NOTE: The following sections may vary by instructor. Please see course syllabus available from the instructor.**

**Typical Text(s) and Resource Materials (if more space is required, download Supplemental Texts and Resource Materials form)**

| Author (surname, initials) | Title (article, book, journal, etc.)      | Current ed. | Publisher | Year |
|----------------------------|-------------------------------------------|-------------|-----------|------|
| 1. Smith/Smith             | Elements of Ecology with MasteringBiology |             | Cummings  | 2014 |

**Typical Evaluation Methods and Weighting**

|                         |     |                             |     |                        |     |                            |      |
|-------------------------|-----|-----------------------------|-----|------------------------|-----|----------------------------|------|
| Final exam:             | 30% | Assignments:                | 10% | Midterm exam:          | 20% | Field trip written report: | 15%  |
| In-class participation: | 5%  | In-class oral presentation: | 5%  | Stream ecology report: | 15% | Total:                     | 100% |

**Typical Course Content and Topics**

Life and the physical environment  
 Physical conditions, climate patterns,  
 Climate diagrams and the major terrestrial biomes  
 Life in water – zonation and nutrient flow  
 Response to changing essential conditions  
 Temperature  
 Water  
 Energy and nutrients  
 Succession  
 Population processes  
 Distributions and life history patterns  
 Growth and dynamics  
 Dispersal and metapopulations  
 Interactions  
 Competition  
 Parasitism and mutualism  
 Communities  
 Community structure and food webs  
 Nutrient cycling  
 Landscape ecology and conservation

**Laboratory Exercises**

1. Tree, shrub, and ground cover identification in the woodlot. Students will be introduced to sampling methods and local plant identification.
2. Plant diversity in a raised bog. Students will travel to Derby Reach to investigate plant diversity in this unique community and apply statistical measures to look for variance and correlations in sampling.
3. Soil invertebrates. The class will collect litter/soil samples and learn to use a key to identify the common invertebrates present.
4. The class will learn stewardship techniques for monitoring and improving habitat quality in local streams by quantifying physical conditions as well as assessing the invertebrate community and phytoplankton levels.
5. A field trip component will also introduce students to developing and testing their own hypotheses. Groups of students will develop their own investigation on the consequences environmental gradients have on the makeup of communities.

**Memo for Course Changes**

To: UEC

From: Allan Arndt, Biology Department Head

Date: July 2016

**Subject: Proposal for revision of BIO 220 Genetics**

1. Summary of changes (select all that apply):

- ☐ Six-year review
- ☐ Number and/or course code
- ☐ Credits and/or total hours
- ☐ Title
- ☐ Calendar description
- ☒ Prerequisites and/or co-requisites
- ☐ Frequency of course offering
- ☐ Learning outcomes
- ☐ Delivery methods and/or texts and resource materials
- ☐ PLAR options, grading system, and/or evaluation methods
- ☐ Discontinuation of course
- ☐ Other – Please specify:

2. Rationale for change: *This will allow agriculture students to register without a waiver.*

3. If there are substantial changes to the learning outcomes, explain how they align with the learning outcomes of the program(s): *No changes*

4. Is this course required by any program beyond the discipline? If so, how will this change affect that program or programs? *This will allow agriculture students to register without a waiver.*

5. Which program areas have been consulted about the change(s)? *Agriculture, Bachelor of Agriculture Science Implementation Committee*

What consideration has been given to indigenizing the curriculum? *Indigenization is encouraged at the program level through breadth/elective requirements where students can choose from courses where indigenization is appropriate to the course content and discipline.*

6. If this course is not eligible for PLAR, explain why: *This course is eligible for PLAR.*

7. If any of the following items on the official course outline have changed, explain how the change will affect the budget for your area or any other area: *None of these items have changed.*

- a. Credit value
- b. Class size limit
- c. Frequency of offering
- d. Resources required (labs, equipment)

8. Are field trips required for this course? (Field trip requirements must be announced in the timetable.) How are the trips funded? *Field trips are not required.*
9. Estimate of the typical costs for this course, including textbooks and other materials: \$193.95  
(textbook)



ORIGINAL COURSE IMPLEMENTATION DATE: October 1994  
 REVISED COURSE IMPLEMENTATION DATE: September 2017  
 COURSE TO BE REVIEWED: (six years after UEC approval) December 2020  
 Course outline form version: 09/15/14

## OFFICIAL UNDERGRADUATE COURSE OUTLINE FORM

Note: The University reserves the right to amend course outlines as needed without notice.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------------------------------|--|------------------|----|------------------------|--|--------------------------------------------|--|----------------------------|--|----------------------|--|--------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Course Code and Number: BIO 220                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | Number of Credits: 4 <a href="#">Course credit policy (105)</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Course Full Title: Genetics                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Course Short Title (if title exceeds 30 characters):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Faculty: Faculty of Science                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           | Department (or program if no department): Biology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Calendar Description:</b><br>This introductory genetics course deals with the principles and concepts of transmission of genetic information in all living organisms. The function of a gene will also be studied at the molecular level.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Prerequisites (or NONE):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |           | One of the following: BIO 112 or (BIO 111 and any three AGRI courses) or (BIO 111 and [three of the following: AGRI 123, AGRI 124, AGRI 129, AGRI 163, AGRI 203, AGRI 204, or AGRI 220]), all with a C+ or better. Note: As of January 2018, prerequisites will change to the following: One of the following: BIO 112 or (BIO 111 and [three of the following: AGRI 123, AGRI 124, AGRI 129, AGRI 163, AGRI 203, AGRI 204, or AGRI 220]), all with a C+ or better.                                                              |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Corequisites (if applicable, or NONE):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Pre/corequisites (if applicable, or NONE):                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Equivalent Courses (cannot be taken for additional credit)</b><br>Former course code/number:<br>Cross-listed with:<br>Equivalent course(s):<br><i>Note: Equivalent course(s) should be included in the calendar description by way of a note that students with credit for the equivalent course(s) cannot take this course for further credit.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           | <b>Transfer Credit</b><br>Transfer credit already exists: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>Transfer credit requested (OREg to submit to BCCAT):<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (if yes, fill in transfer credit form)<br>Resubmit revised outline for articulation: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>To find out how this course transfers, see <a href="http://bctransferguide.ca">bctransferguide.ca</a> . |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Total Hours: 90</b><br><b>Typical structure of instructional hours:</b> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td style="padding: 2px;">Lecture hours</td> <td style="text-align: right; padding: 2px;">45</td> </tr> <tr> <td style="padding: 2px;">Seminars/tutorials/workshops</td> <td style="padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">Laboratory hours</td> <td style="text-align: right; padding: 2px;">45</td> </tr> <tr> <td style="padding: 2px;">Field experience hours</td> <td style="padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">Experiential (practicum, internship, etc.)</td> <td style="padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">Online learning activities</td> <td style="padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">Other contact hours:</td> <td style="padding: 2px;"></td> </tr> <tr> <td style="text-align: right; padding: 2px;"><b>Total</b></td> <td style="text-align: right; padding: 2px;"><b>90</b></td> </tr> </table> |           | Lecture hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 45 | Seminars/tutorials/workshops |  | Laboratory hours | 45 | Field experience hours |  | Experiential (practicum, internship, etc.) |  | Online learning activities |  | Other contact hours: |  | <b>Total</b> | <b>90</b> | <b>Special Topics</b><br>Will the course be offered with different topics?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>If yes, different lettered courses may be taken for credit:<br><input type="checkbox"/> No <input type="checkbox"/> Yes, repeat(s) <input type="checkbox"/> Yes, no limit<br><i>Note: The specific topic will be recorded when offered.</i> |  |
| Lecture hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 45        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Seminars/tutorials/workshops                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Laboratory hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 45        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Field experience hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Experiential (practicum, internship, etc.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Online learning activities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Other contact hours:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>90</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |           | <b>Maximum enrolment (for information only): 24</b><br><b>Expected frequency of course offerings (every semester, annually, every other year, etc.):</b> every semester                                                                                                                                                                                                                                                                                                                                                          |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Department / Program Head or Director: Allan Arndt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |           | Date approved: July 27, 2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Faculty Council approval                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |           | Date approved: October 2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Campus-Wide Consultation (CWC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |           | Date of posting: November 18, 2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Dean/Associate VP: Lucy Lee                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |           | Date approved: October 2016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |
| Undergraduate Education Committee (UEC) approval                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |           | Date of meeting: January 27, 2017                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |                              |  |                  |    |                        |  |                                            |  |                            |  |                      |  |              |           |                                                                                                                                                                                                                                                                                                                                                                                                  |  |

**Learning Outcomes**

Upon successful completion of this course, students will be able to:

1. State Mendel's two Laws and relate these to meiosis
2. Calculate map distances and generate restriction enzyme maps
3. Critically interpret data in order to deduce modes of inheritance and predict outcomes of crosses
4. Describe models for the regulation of gene function in cells
5. Explain the techniques and applications commonly used in a modern genetics laboratory
6. Describe how genes can be isolated from the genome of an organism

**Prior Learning Assessment and Recognition (PLAR)**

☒ Yes      ☐ No, PLAR cannot be awarded for this course because

**Typical Instructional Methods (guest lecturers, presentations, online instruction, field trips, etc.; may vary at department's discretion)**

The basic genetic principles will be taught in lectures. Practical experience will be gained through laboratory exercises and assignments.

**Grading system:** Letter Grades: ☒ Credit/No Credit: ☐ Labs to be scheduled independent of lecture hours: Yes ☒ No ☐

**NOTE: The following sections may vary by instructor. Please see course syllabus available from the instructor.**

**Typical Text(s) and Resource Materials (if more space is required, download Supplemental Texts and Resource Materials form)**

| Author (surname, initials) | Title (article, book, journal, etc.) | Current ed.                         | Publisher | Year |
|----------------------------|--------------------------------------|-------------------------------------|-----------|------|
| 1. Klug/Cummings           | Concepts in Genetics                 | <input checked="" type="checkbox"/> | Pearson   | 2014 |
| 2.                         |                                      | <input type="checkbox"/>            |           |      |
| 3.                         |                                      | <input type="checkbox"/>            |           |      |

**Required Additional Supplies and Materials (software, hardware, tools, specialized clothing, etc.)**
**Typical Evaluation Methods and Weighting**

|                |     |              |     |                   |     |            |      |
|----------------|-----|--------------|-----|-------------------|-----|------------|------|
| Final exam:    | 40% | Assignments: | %   | Midterm exam:     | 30% | Practicum: | %    |
| Quizzes/tests: | 12% | Lab work:    | 18% | Field experience: | %   | Shop work: | %    |
| Other:         | %   | Other:       | %   | Other:            | %   | Total:     | 100% |

**Details (if necessary):**
**Typical Course Content and Topics**

Major topics included in this course:

1. Basic Mendelian Genetics
2. Mitosis and meiosis
3. Elementary probability
4. Mapping genes on eukaryotic, bacterial and viral chromosomes
5. Basic cytogenetics
6. DNA structure
7. Replication
8. Transcription and translation
9. Cloning and sequencing
10. Control of gene expression
11. Eukaryotic chromosomes

**Laboratory Experiments:**

- Lab 1 Gene Mapping
- Lab 2 Mutagenesis
- Lab 3 Genomics
- Lab 4 DNA Isolation and Quantification
- Lab 5 Transformation and Restriction Enzyme Mapping
- Lab 6 RFLP Analysis and PCR Amplification

**Memo for Program Changes**

To: UEC

From: Allan Arndt, Biology Department Head

Date: April 8, 2016

**Subject: Program change (biology minor lower level requirements)**

1. Summary of changes (select all the apply):

- ☐ Program revision that requires new resources
- ☒ Addition of new course options or deletion or substitution of a required course
- ☐ Change to the majority of courses in an approved program
- ☐ Change to the duration, philosophy, or direction of a program
- ☐ Addition of a new field of specialization, such as a concentration
- ☐ Change in requirements for admission
- ☐ Change in requirements for residency or continuance
- ☐ Change in admission quotas
- ☐ Change which triggers an external review
- ☐ Deletion of a program not included in the Program Discontinuance policy
- ☐ Other – Please specify:

2. Rationale for change(s):

Biology minor students are currently required to complete more credits compared to other UFV minors. The department requests a revision of requirements from four to two 2<sup>nd</sup> year courses.

3. If program outcomes are new or substantially changed, explain how they align with the Institutional Learning Outcomes: no substantial changes

4. What consideration has been given to indigenizing the curriculum?

Indigenization is encouraged at the program level through breadth/elective requirements where students can choose from courses where indigenization is appropriate to the course content and discipline.

5. Will additional resources be required? If so, how will these costs be covered? none

6. How will students be impacted? (Indicate the projected number of students impacted.) Is the change expected to increase/decrease enrolment in the program? The requirements for biology minor students will be more in-line with other UFV programs.

7. Does the number of required core or elective credits from the program-specific discipline change? If so, will this change the total number of courses to be offered within the discipline? Yes, the number of required core courses will decrease.

8. Identify any available resources that will be used to accommodate the program changes. (Eg. seats in existing classes, conversion of sections, timetabling changes, deletion of courses, etc.) None, requirements will decrease.
9. Is the number of required or elective courses from other disciplines in the program changing? If so, what is the estimated impact to enrolments in these courses? Provide a memo from the respective dean(s) of the impacted faculty to confirm if budgetary implications have been considered and addressed. Yes, the number of requirements will decrease for BSc students.
10. Provide a memo from the program's dean to confirm that budgetary implications of the proposed changes have been considered and will be addressed within the faculty budget.

**Questions from UEC's September 30, 2016 meeting:**

1. Under item 2 "Rationale for change(s)" UEC is asking for some supporting evidence that "Biology minor students are currently required to complete more credits compared to other UFV minors". UEC asks that you provide comparative information with other minors inside and outside science. Information on Biology minors at peer institutions may also be included.

**Department response:**

The Biology minor currently sits at 61-62 credits and requires 4 second year courses. We want to reduce this by 8 with only 2 second year courses required.

- Chemistry minor: 53 credits
- Physics minor: 47 credits
- Geography minor: 31 credits
- Philosophy minor: 31 credits
- Other Biology:
  - o UBC simply asks for 18 upper-level credits and this can be achieved with 43 credits
  - o SFU: 47 credits

2. Further, the Committee has asked for additional information on why these particular courses are being changed, as this was not included in the initial rationale.

**Department response:**

The second year is targeted as this is where students can choose the path to specialize their minor based on interest.

3. The Committee has also asked for details on how the proposed revised minor is different from the Biology minor (for BKin students). That is, will there still be a need for two Biology minors?

**Department response:**

BKin are required to take 201 and 202 as these feed into the upper levels relevant to their degree. 210 and 220 are not included in their program although one could make an argument that 220 is relevant.

4. Please comment on how the reduction in 200-level courses may affect a student's ability to register in a broad selection of 300- and 400-level courses appropriate to the minor.

**Department response:**

Upper-level courses have 200-level prerequisites so they must choose their 200-level courses based on their future selections and interests.

## Biology minor (for BSc students)

This section specifies the biology minor discipline requirements only. Please refer to the [Bachelor of Science](#) section for information on additional requirements.

### Lower-level requirements

| Course                                                                                                                       | Title                                                | Credits |
|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|---------|
| BIO 111                                                                                                                      | Introductory Biology I                               | 5       |
| BIO 112                                                                                                                      | Introductory Biology II                              | 5       |
| <b>Plus two <del>200-level</del><sup>2<sup>nd</sup></sup>-year biology courses selected from the following: (see Note 1)</b> |                                                      |         |
| BIO 201                                                                                                                      | Cellular Biochemistry and Metabolism                 | 4       |
| <b><u>or</u></b> BIO 202                                                                                                     | Cellular Signaling and Regulation of Gene Expression | 4       |
| <b><u>or</u></b> BIO 210                                                                                                     | Introductory Ecology                                 | 4       |

|                                                                                   |                                                 |     |
|-----------------------------------------------------------------------------------|-------------------------------------------------|-----|
| <b>or</b> BIO 220                                                                 | Introductory Genetics                           | 4   |
| CHEM 111                                                                          | Principles of Chemistry I (previously offered)  |     |
| <b>or</b> CHEM 113                                                                | Principles of Chemistry I                       | 4-5 |
| CHEM 112                                                                          | Principles of Chemistry II (previously offered) |     |
| <b>or</b> CHEM 114                                                                | Principles of Chemistry II                      | 4-5 |
| CHEM 213                                                                          | Organic Chemistry I                             | 4   |
| CHEM                                                                              | CHEM course numbered 200 or above               | 3-4 |
| <b>Plus one course selected from the following:</b> (see Note <a href="#">2</a> ) |                                                 |     |
| STAT 104                                                                          | Introductory Statistics                         | 4   |

|                       |                                            |   |
|-----------------------|--------------------------------------------|---|
| STAT 106              | Statistics I                               | 4 |
| MATH 270/<br>STAT 270 | Introduction to Probability and Statistics | 4 |

[Note 1: Students should consider the prerequisites of upper-level biology courses when choosing 200-level biology courses.](#)

Note [2](#): Students who completed PSYC 110 prior to September 2012 can use this course toward lower-level requirements.

### **Upper-level requirements**

| Course | Title                             | Credits |
|--------|-----------------------------------|---------|
| BIO    | 300- or 400-level Biology courses | 14      |

**Memo for Program Changes**

To:

From: Allan Arndt, Biology Department Head

Date: May 1, 2016

**Subject: Program change (biology extended minor lower level requirements)**

1. Summary of changes (select all that apply):

- ☐ Program revision that requires new resources
- ☐ Addition of new course options or deletion or substitution of a required course
- ☐ Change to the majority of courses in an approved program
- ☐ Change to the duration, philosophy, or direction of a program
- ☐ Addition of a new field of specialization, such as a concentration
- ☐ Change in requirements for admission
- ☒ Change in requirements for residency or continuance
- ☐ Change in admission quotas
- ☐ Change which triggers an external review
- ☐ Deletion of a program not included in the Program Discontinuance policy
- ☐ Other – Please specify:

2. Rationale for change(s):

Biology minor students are currently required to complete more credits compared to other UFV minors. The department requests a revision of requirements from four to two 2<sup>nd</sup> year courses.

3. If program outcomes are new or substantially changed, explain how they align with the Institutional Learning Outcomes: no substantial changes

4. What consideration has been given to indigenizing the curriculum?

Indigenization is encouraged at the program level through breadth/elective requirements where students can choose from courses where indigenization is appropriate to the course content and discipline.

5. Will additional resources be required? If so, how will these costs be covered? none

6. How will students be impacted? (Indicate the projected number of students impacted.) Is the change expected to increase/decrease enrolment in the program? The requirements for biology minor students will be more in-line with other UFV programs.

7. Does the number of required core or elective credits from the program-specific discipline change? If so, will this change the total number of courses to be offered within the discipline? Yes, the number of required core courses will decrease.

8. Identify any available resources that will be used to accommodate the program changes. (Eg. seats in existing classes, conversion of sections, timetabling changes, deletion of courses, etc.) None, requirements will decrease.
9. Is the number of required or elective courses from other disciplines in the program changing? If so, what is the estimated impact to enrolments in these courses? Provide a memo from the respective dean(s) of the impacted faculty to confirm if budgetary implications have been considered and addressed. Yes, the number of requirements will decrease for BSc and BA students. The College of Arts Curriculum Committee has been consulted.
10. Provide a memo from the program's dean to confirm that budgetary implications of the proposed changes have been considered and will be addressed within the faculty budget.

## Biology extended minor (for BA students)

This section specifies the Biology extended minor discipline requirements only. Please refer to the [Bachelor of Arts](#) section for information on additional requirements, including the requirements for [declaring](#) an extended minor.

### Lower-level requirements

| Course                                                                                                                                                                                                                                                                                                                                               | Title                                                | Credits |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|---------|
| BIO 111                                                                                                                                                                                                                                                                                                                                              | Introductory Biology I                               | 5       |
| BIO 112                                                                                                                                                                                                                                                                                                                                              | Introductory Biology II                              | 5       |
| <p><b>Plus two 2<sup>nd</sup> year biology courses selected from the following:</b></p> <ul style="list-style-type: none"> <li><b>Note: students should choose appropriately in order to satisfy upper-level course prerequisites. It is highly recommended that students contact an advisor prior to making their course selections.</b></li> </ul> |                                                      |         |
| BIO 201                                                                                                                                                                                                                                                                                                                                              | Cellular Biochemistry and Metabolism                 | 4       |
| <b>or</b> BIO 202                                                                                                                                                                                                                                                                                                                                    | Cellular Signaling and Regulation of Gene Expression | 4       |

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|                                                     |                                                 |     |
|-----------------------------------------------------|-------------------------------------------------|-----|
| <b>or</b> BIO 210                                   | Introductory Ecology                            | 4   |
| <b>or</b> BIO 220                                   | Introductory Genetics                           | 4   |
| CHEM 111                                            | Principles of Chemistry I (previously offered)  |     |
| <b>or</b> CHEM 113                                  | Principles of Chemistry I                       | 4-5 |
| CHEM 112                                            | Principles of Chemistry II (previously offered) |     |
| <b>or</b> CHEM 114                                  | Principles of Chemistry II                      | 4-5 |
| CHEM 213                                            | Organic Chemistry I                             | 4   |
| CHEM                                                | CHEM course numbered 200 or above               | 3-4 |
| <b>Plus one course selected from the following:</b> |                                                 |     |

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|-----------------------|--------------------------------------------|---|
| STAT 104              | Introductory Statistics                    | 4 |
| STAT 106              | Statistics I                               | 4 |
| MATH 270/<br>STAT 270 | Introduction to Probability and Statistics | 4 |
| PSYC 110              | Applied Statistical Analysis in Psychology | 3 |

**Upper-level requirements**

| Course | Title                             | Credits |
|--------|-----------------------------------|---------|
| BIO    | 300- or 400-level Biology courses | 15      |

Note: Up to nine of the 15 upper-level credits can be in directed studies or special topics courses.

**Course listings**

For complete details on courses see the [course descriptions](#) section.

**Memo for Program Changes**

To: UEC

From: Alisa Webb, Associate Dean of Students and Chair, College of Arts Curriculum Committee

Date: January 13, 2017

**Subject: Minor program change for BA, Fall 2017 program**

1. Summary of changes (select all the apply):

- ☐ Program revision that requires new resources
- ☒ Addition of new course options or deletion or substitution of a required course
- ☐ Change to the majority of courses in an approved program
- ☐ Change to the duration, philosophy, or direction of a program
- ☐ Addition of a new field of specialization, such as a concentration
- ☐ Change in requirements for admission
- ☐ Change in requirements for residency or continuance
- ☐ Change in admission quotas
- ☐ Change which triggers an external review
- ☐ Deletion of a program not included in the Program Discontinuance policy
- ☐ Other – Please specify:

2. Rationale for change(s):

CACC has continued to vet courses as meeting the outcomes for the BA requirements. This change reflects an expanded set of course options available to students Fall 2017.

3. If program outcomes are new or substantially changed, explain how they align with the Institutional Learning Outcomes: N/A

4. What consideration has been given to indigenizing the curriculum?

Arts has been consistent in ensuring the indigenization of its courses. Students taking Arts courses towards the LAD will encounter indigenous content, themes, and methods in a range of disciplines.

5. Will additional resources be required? If so, how will these costs be covered?

No additional resources required

6. How will students be impacted? (Indicate the projected number of students impacted.) Is the change expected to increase/decrease enrolment in the program?

Increased course options for students

7. Does the number of required core or elective credits from the program-specific discipline change? If so, will this change the total number of courses to be offered within the discipline? N/A

8. Identify any available resources that will be used to accommodate the program changes. (Eg. seats in existing classes, conversion of sections, timetabling changes, deletion of courses, etc.)

Seats within existing courses

9. Is the number of required or elective courses from other disciplines in the program changing? If so, what is the estimated impact to enrolments in these courses? Provide a memo from the respective dean(s) of the impacted faculty to confirm if budgetary implications have been considered and addressed. N/A
10. Provide a memo from the program's dean to confirm that budgetary implications of the proposed changes have been considered and will be addressed within the faculty budget.

Confirmed no budgetary implications

Minor BA (Fall 2017) Program Change for Fall 2017 Calendar

## Foundational skills (5 courses: 15-17 credits)

| Foundational skill                     | Requirement                                                                                                                                                                                                                                                                            | Benchmark              |
|----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| Writing foundation                     | <u>CMNS 120, CMNS 125 (completed Fall 2017 or later),</u><br>CMNS 155 <u>(previously offered)</u> , ENGL 105, or an A in English 12 or equivalent, <u>an A in ENGL 091, or an A in ENGL 099</u>                                                                                        | Complete by 30 credits |
| Written, oral, or visual communication | One of AH 100, AH 101, AH 102, AH 204, CMNS 235, CMNS 251, <u>ENGL 210, FREN 101, FREN 102, GD 101, GD 102, GD 157, GERM 101, GERM 102, JAPN 101, JAPN 102, RUSS 101, RUSS 102, SPAN 101, SPAN 102, SPAN 201, SPAN 202, THEA 111, THEA 112, VA 113, VA 115, or VA 116 (see Note 1)</u> | Complete by 60 credits |
| Critical thinking                      | PHIL 100 <u>(see Note 1)</u>                                                                                                                                                                                                                                                           | Complete by 30 credits |
| Quantitative literacy                  | One of ECON 100, ECON 101, GEOG 253, MATH 105, MATH 110, <u>MATH 111</u> , MATH 123, MATH 140, MATH 141, <u>PSYC 110</u> , STAT 104, or STAT 106 <u>(see Note 1)</u>                                                                                                                   | Complete by 60 credits |
| Scientific literacy                    | One of BIO 105, BIO 106, GEOG 103, <del>or</del> GEOG 105, <u>GEOG 111, or GEOG 116 (see Note 1)</u>                                                                                                                                                                                   | Complete by 60 credits |

~~Note 1: Courses continue to be added to these lists; students are encouraged to check the Fall 2017 calendar (available by early May 2017) for an expanded list of options.~~

~~Note 2: Students may not use the same course to meet more than one foundational skill requirement.~~

| Requirement                     | Course options                                                                                                                                                                                                                                 | Non-course options                                                                                                                           |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Civic engagement</b>         | <u>GDS 100, GEOG 360, GEOG 396, GEOG 412, GEOG 460, GEOG 464, GDS 310, or SOC 396, or VA 390;</u> or approved, relevant internship or practicum not listed above <del>(see Note 1)</del>                                                       | Minimum of 60 hours relevant, paid or volunteer experience; minimum 60 hours relevant co-curricular record experience                        |
| <b>Intercultural engagement</b> | ANTH 111, CMNS 180, <u>GEOG 346, GEOG 398, GEOG 466,</u> GDS 250, GDS 311, HIST 103, HIST 396o, <u>JAPN 103,</u> LAS 200, SOC 250, SOC 200, or SOC 398; or approved, relevant internship or practicum not listed above <del>(see Note 1)</del> | Minimum of 60 hours relevant, paid or volunteer experience; minimum 60 hours relevant co-curricular record experience; approved study abroad |

~~Note 1: Courses continue to be added to these lists; students are encouraged to check the Fall 2017 calendar (available by early May 2017) for an expanded list of options.~~

~~Note 2: Students may not use a course applied to their foundational skills requirements to meet their personal and social responsibility requirements.~~

**Memo for Program Changes**

To: UEC

From: Alisa Webb, Associate Dean of Students and Chair, College of Arts Curriculum Committee

Date: January 13, 2016

**Subject: Minor program change for Liberal Arts Diploma**

1. Summary of changes (select all the apply):

- ☐ Program revision that requires new resources
- ☒ Addition of new course options or deletion or substitution of a required course
- ☐ Change to the majority of courses in an approved program
- ☐ Change to the duration, philosophy, or direction of a program
- ☐ Addition of a new field of specialization, such as a concentration
- ☐ Change in requirements for admission
- ☐ Change in requirements for residency or continuance
- ☐ Change in admission quotas
- ☐ Change which triggers an external review
- ☐ Deletion of a program not included in the Program Discontinuance policy
- ☐ Other – Please specify:

2. Rationale for change(s):

CACC has continued to vet courses as meeting the outcomes for the BA/LAD requirements. This change reflects an expanded set of course options available to students Fall 2017.

3. If program outcomes are new or substantially changed, explain how they align with the Institutional Learning Outcomes: N/A

4. What consideration has been given to indigenizing the curriculum?

Arts has been consistent in ensuring the indigenization of its courses. Students taking Arts courses towards the LAD will encounter indigenous content, themes, and methods in a range of disciplines.

5. Will additional resources be required? If so, how will these costs be covered?

No additional resources required

6. How will students be impacted? (Indicate the projected number of students impacted.) Is the change expected to increase/decrease enrolment in the program?

Increased course options for students

7. Does the number of required core or elective credits from the program-specific discipline change? If so, will this change the total number of courses to be offered within the discipline? N/A

8. Identify any available resources that will be used to accommodate the program changes. (Eg. seats in existing classes, conversion of sections, timetabling changes, deletion of courses, etc.)

Seats within existing courses

9. Is the number of required or elective courses from other disciplines in the program changing? If so, what is the estimated impact to enrolments in these courses? Provide a memo from the respective dean(s) of the impacted faculty to confirm if budgetary implications have been considered and addressed. N/A
10. Provide a memo from the program's dean to confirm that budgetary implications of the proposed changes have been considered and will be addressed within the faculty budget.

Confirmed no budgetary implications

Minor Liberal Arts Diploma Program Change for Fall 2017 Calendar

Foundational Skills Requirement (4-5 courses)

| Foundational Skill                            | Requirement                                                                                                                                                                                                                                                               | Benchmark              |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| <b>Writing Foundation</b>                     | <u>CMNS 120, CMNS 125 (completed Fall 2017 or later), CMNS 155 (previously offered), ENGL 105, or an A in English 12 or equivalent</u>                                                                                                                                    | Complete by 30 credits |
| <b>Written, Oral, or Visual Communication</b> | One of AH 100, AH 101, AH 102, AH 204, CMNS 235, CMNS 251, <u>ENGL 210, FREN 101, FREN 102, GD 101, GD 102, GD 157, GERM 101, GERM 102, JAPN 101, JAPN 102, RUSS 101, RUSS 102, SPAN 101, SPAN 102, SPAN 201, SPAN 202, THEA 111, THEA 112, VA 113, VA 115, or VA 116</u> | Complete by 60 credits |
| <b>Critical Thinking</b>                      | PHIL 100                                                                                                                                                                                                                                                                  | Complete by 30 credits |
| <b>Quantitative Literacy</b>                  | One of ECON 100, ECON 101, GEOG 253, MATH 105, MATH 110, <u>MATH 111, MATH 123, MATH 140, MATH 141, PSYC 110, STAT 104, or STAT 106</u>                                                                                                                                   | Complete by 60 credits |
| <b>Scientific Literacy</b>                    | One of BIO 105, BIO 106, GEOG 103, <del>or</del> GEOG 105, <u>GEOG 111, or GEOG 116</u>                                                                                                                                                                                   | Complete by 60 credits |

## **Bachelor of Social Work Academic Calendar Changes**

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### **Electives**

BSW students are required to complete a total of six SOWK electives (see below) and two upper-level Arts and Science electives.

#### **SOWK Group A electives**

Students must complete a minimum of two SOWK Group A electives:

| <b>Course</b> | <b>Title</b>                          | <b>Credits</b> |
|---------------|---------------------------------------|----------------|
| SOWK 301      | Social Work Practice with Groups      | 3              |
| SOWK 380      | Social Work and Community Development | 3              |
| SOWK 483      | Family Centred Social Work            | 3              |

#### **SOWK Group B electives**

Students must complete four SOWK Group B electives unless they choose to complete all three Group A electives, in which case they are required to complete three Group B electives:

| <b>Course</b>   | <b>Title</b>                                 | <b>Credits</b> |
|-----------------|----------------------------------------------|----------------|
| SOWK 394        | Substance Misuse Issues                      | 3              |
| <u>SOWK 412</u> | <u>Legal Skills for Social Work Practice</u> | <u>3</u>       |
| SOWK 450        | Social Work in Health Care                   | 3              |
| SOWK 490        | Gerontological Social Work                   | 3              |
| SOWK 491        | Child Welfare                                | 3              |
| SOWK 493        | Feminist Social Work                         | 3              |
| SOWK 496        | Disability Issues                            | 3              |
| SOWK 497        | Social Work in Mental Health                 | 3              |

**Memo for Program Changes**

To: Professional Studies Faculty Council

From: Lisa Moy, BSW Program Chair

Date: October 16, 2016

**Subject: Program change (insert program title)**

1. Summary of changes (select all that apply):

- ☐ Program revision that requires new resources
- ☒ Addition of new course options or deletion or substitution of a required course
- ☐ Change to the majority of courses in an approved program
- ☐ Change to the duration, philosophy, or direction of a program
- ☐ Addition of a new field of specialization, such as a concentration
- ☐ Change in requirements for admission
- ☐ Change in requirements for residency or continuance
- ☐ Change in admission quotas
- ☐ Change which triggers an external review
- ☐ Deletion of a program not included in the Program Discontinuance policy
- ☐ Other – Please specify:

2. Rationale for change(s):

SOWK 412 has been offered as an elective to BSW students for a number of years. Changes to the academic calendar were inadvertently missed and this program change corrects this omission. We are requesting this change in order to update the UFV calendar.

3. If program outcomes are new or substantially changed, explain how they align with the Institutional Learning Outcomes:

No learning outcomes were changed.

4. What consideration has been given to indigenizing the curriculum?

This program change broadens the selection of electives to the students, and contains no changes to the curriculum of courses.

Indigenization is required at the BSW program level, as outlined by CASWE accreditation standards. For example, SOWK 392 (Aboriginal Social Work), SOWK 320 (Anti-racist social work), and SOWK 311 (which, as part of this course, examines Indigenous frameworks for practice) are required courses for all BSW students. SOWK 491 (Child Welfare), a required course for BSW students in the Child Welfare specialization, examines the overrepresentation of Aboriginal children in care. These are examples of BSW courses that contribute to a decolonizing social work pedagogy.

5. Will additional resources be required? If so, how will these costs be covered?

No additional resources will be required.

6. How will students be impacted? (Indicate the projected number of students impacted.) Is the change expected to increase/decrease enrolment in the program?  
Students will be made aware that SOWK 412 counts as a Group B elective (BSW students are required to complete a certain number of 'Group A' and 'Group B' electives).  
Existing enrolment will not change.
7. Does the number of required core or elective credits from the program-specific discipline change? If so, will this change the total number of courses to be offered within the discipline?  
This does not change the required number of core or elective courses.
8. Identify any available resources that will be used to accommodate the program changes. (Eg. seats in existing classes, conversion of sections, timetabling changes, deletion of courses, etc.)  
The program change will not require any resources beyond the resources needed to update the UFV calendar.
9. Is the number of required or elective courses from other disciplines in the program changing? If so, what is the estimated impact to enrolments in these courses? Provide a memo from the respective dean(s) of the impacted faculty to confirm if budgetary implications have been considered and addressed.  
No, this program change does not affect required or elective courses from other disciplines.
10. Provide a memo from the program's dean to confirm that budgetary implications of the proposed changes have been considered and will be addressed within the faculty budget.  
There are no budgetary implications.

**Memo for Program Changes**

To:

From: Allan Arndt, Biology Department Head

Date: Sept. 30, 2016

**Subject: Program change (biology honours)**

1. Summary of changes (select all the apply):

- ☐ Program revision that requires new resources
- ☐ Addition of new course options or deletion or substitution of a required course
- ☐ Change to the majority of courses in an approved program
- ☐ Change to the duration, philosophy, or direction of a program
- ☐ Addition of a new field of specialization, such as a concentration
- ☐ Change in requirements for admission
- ☐ Change in requirements for residency or continuance
- ☐ Change in admission quotas
- ☐ Change which triggers an external review
- ☐ Deletion of a program not included in the Program Discontinuance policy
- ☒ Other – Please specify: Change to the application process.

2. Rationale for change(s):

The Biology honours application process has been streamlined to ensure ease of use for students.

3. If program outcomes are new or substantially changed, explain how they align with the Institutional Learning Outcomes: no substantial changes

4. What consideration has been given to indigenizing the curriculum?

Indigenization is encouraged at the program level through breadth/elective requirements where students can choose from courses where indigenization is appropriate to the course content and discipline.

5. Will additional resources be required? If so, how will these costs be covered? None.

6. How will students be impacted? (Indicate the projected number of students impacted.) Is the change expected to increase/decrease enrolment in the program? The biology honours application process will be easier for students.

7. Does the number of required core or elective credits from the program-specific discipline change? If so, will this change the total number of courses to be offered within the discipline? No.

8. Identify any available resources that will be used to accommodate the program changes. (Eg. seats in existing classes, conversion of sections, timetabling changes, deletion of courses, etc.) None.

9. Is the number of required or elective courses from other disciplines in the program changing? If so, what is the estimated impact to enrolments in these courses? Provide a memo from the respective dean(s) of the impacted faculty to confirm if budgetary implications have been considered and addressed. No.
10. Provide a memo from the program's dean to confirm that budgetary implications of the proposed changes have been considered and will be addressed within the faculty budget.

## Biology Honours

This program will allow students to further their Biology degree through additional course requirements with greater course expectations and a higher degree of research in the form of a project. The in-depth research project will prepare students for admission to graduate schools and/or professional work.

Students may apply for entry into the program after completing the first and second year Biology major program requirements but before they are awarded a BSc degree in Biology. However, interested students are encouraged to seek out information and advice on the honours program from Biology faculty or an Advisor as early as possible in their coursework, and to apply to the honours program at the earliest possible entry date.

### Entrance requirements

- 60 credits of coursework, including all lower-level Biology major program requirements, with a minimum 3.33 cumulative GPA.

### How to apply

Once a student has the entrance requirements, they are eligible to apply for entry into the Biology Honours program. Students will be required to identify a faculty advisor who is willing to supervise the research project. Students can also be admitted if they identify a research supervisor from outside the department who would need to be approved by the departmental ~~al Honours Advisory Committee~~. In this case, a faculty advisor would be assigned to monitor the progress of the student in the program.

~~In order to submit an application, students will need to provide the following:~~

- ~~1. A Biology Honours program application form (available from the Department Assistant).~~
- ~~2. A completed checklist (available from the Department Assistant) demonstrating successful completion of required coursework for application.~~

~~3. A copy of their transcripts (these do not need to be official transcripts).~~

~~4. A letter from a faculty member or external research supervisor agreeing to supervise the research project.~~

~~Students should submit their application materials to the Biology Department Assistant. The department Honours Advisory Committee (HAC) will then approve the project supervisor. In the case of students whose research project is to be supervised by an external researcher, the HAC will assign a faculty honours supervisor.~~ Students are encouraged to approach a departmental faculty member appropriate to their research interests by the end of the second year of their Biology program. Students must complete the Biology Honours Application form, available from the department assistant.

## Program requirements

This section specifies the Biology Honours discipline requirements only. Please refer to the **Bachelor of Science** section for information on additional requirements.

### Lower-level requirements

| Course  | Title                        | Credits |
|---------|------------------------------|---------|
| BIO 111 | Introductory Biology I       | 5       |
| BIO 112 | Introductory Biology II      | 5       |
| BIO 201 | Cell Biochemistry/Metabolism | 4       |

|                    |                                                      |     |
|--------------------|------------------------------------------------------|-----|
| BIO 202            | Cellular Signaling and Regulation of Gene Expression | 4   |
| BIO 210            | Introductory Ecology                                 | 4   |
| BIO 220            | Introductory Genetics                                | 4   |
| CHEM 111           | Principles of Chemistry I (previously offered)       |     |
| <b>or</b> CHEM 113 | Principles of Chemistry I                            | 4-5 |
| CHEM 112           | Principles of Chemistry II (previously offered)      |     |
| <b>or</b> CHEM 114 | Principles of Chemistry II                           | 4-5 |
| PHYS 105           | Non-Calculus Physics                                 |     |
| <b>or</b> PHYS 111 | Mechanics                                            |     |

|                                                                     |                                                        |      |
|---------------------------------------------------------------------|--------------------------------------------------------|------|
| <b>and</b> PHYS<br>112                                              | Electricity and Magnetism                              | 4-10 |
| MATH 111                                                            | Calculus I                                             | 4    |
| MATH 112                                                            | Calculus II                                            |      |
| <b>or</b> MATH 118                                                  | Calculus II for Life Sciences                          | 4    |
| STAT 271                                                            | Introduction to Data Analysis and Statistical Modeling |      |
| <b>or</b> Any 200-, 300-, or 400-level biological statistics course |                                                        | 3-4  |
| CHEM 213                                                            | Organic Chemistry I                                    | 4    |
| CHEM                                                                | CHEM course numbered 200 or above                      | 3-4  |
| <b>Plus one course selected from the following:</b>                 |                                                        |      |

|                       |                                            |   |
|-----------------------|--------------------------------------------|---|
| STAT 104              | Introductory Statistics                    | 4 |
| STAT 106              | Statistics I                               | 4 |
| MATH 270/<br>STAT 270 | Introduction to Probability and Statistics | 4 |

**Upper-level requirements**

| Course                       | Title                 | Credits |
|------------------------------|-----------------------|---------|
| <b>Two of the following:</b> |                       | 6       |
| BIO 310                      | Conservation Biology  |         |
| BIO 312                      | Developmental Biology |         |
| BIO 320                      | Biochemistry          |         |

|                                                                                                                                                                            |                                                                                           |    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|----|
| BIO 416                                                                                                                                                                    | Evolution                                                                                 |    |
| <b>Plus:</b> (see Note)                                                                                                                                                    |                                                                                           |    |
| BIO 497                                                                                                                                                                    | Biology Seminar                                                                           | 1  |
| BIO 499                                                                                                                                                                    | Directed Studies in Honours Biology                                                       | 9  |
| 24 credits of BIO courses numbered 300 and above. (Included in these 24 upper-level credits must be at least eight credits chosen from four-credit BIO courses with labs.) |                                                                                           | 24 |
| Electives                                                                                                                                                                  | Upper-level university courses in any discipline, 3 credits of which must be non-Biology. | 14 |

Note: Students who completed MATH 302 prior to September 2012 can use this course toward upper-level requirements.

Upper-level courses at other institutions may be counted as upper-level Biology transfer credit.

See **Courses at other institutions** for details.

## Honours research project

Prior to enrolling in BIO 499, each honours candidate will need to meet with their honours supervisor to assess their progress in the honours program. At this time, the candidate should submit an updated transcript to their supervisor for review.

Successful completion of a research project is required prior to graduation. This project, which will be developed in consultation with a faculty (or research and honours) supervisor, will demonstrate a student's skill and knowledge in the area of biological research being pursued. Each honours applicant will then be required to present the findings of their research at a professional or university conference, or at some other venue approved by the HAC.

Following project completion and presentation, the honours supervisor will recommend a letter grade. The HAC will choose whether or not to accept this grade based on further review of the student's work in BIO 499.

## Graduation requirements

The student's final CGPA must be at least 3.33, and a grade of B+ or better must be achieved in BIO 499, in order for an honours designation to be awarded.

## Course listings

For complete details on courses see the [course descriptions](#) section.



ORIGINAL COURSE IMPLEMENTATION DATE:  
 REVISED COURSE IMPLEMENTATION DATE:  
 COURSE TO BE REVIEWED: (six years after UEC approval)  
 Course outline form version: [09/15/14 01/27/17](#)

## OFFICIAL UNDERGRADUATE COURSE OUTLINE FORM

Note: The University reserves the right to amend course outlines as needed without notice.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                              |  |                  |  |                        |  |                                            |  |                            |  |                      |  |              |          |                                                                                                                                                                                                                                                                                                                                                                                               |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------|--|------------------|--|------------------------|--|--------------------------------------------|--|----------------------------|--|----------------------|--|--------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>Course Code and Number:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          | <b>Number of Credits:</b> <a href="#">Course credit policy (105)</a>                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                              |  |                  |  |                        |  |                                            |  |                            |  |                      |  |              |          |                                                                                                                                                                                                                                                                                                                                                                                               |  |
| <b>Course Full Title:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                              |  |                  |  |                        |  |                                            |  |                            |  |                      |  |              |          |                                                                                                                                                                                                                                                                                                                                                                                               |  |
| <b>Course Short Title (if title exceeds 30 characters):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                              |  |                  |  |                        |  |                                            |  |                            |  |                      |  |              |          |                                                                                                                                                                                                                                                                                                                                                                                               |  |
| <b>Faculty:</b> Choose an item.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          | <b>Department (or program if no department):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                              |  |                  |  |                        |  |                                            |  |                            |  |                      |  |              |          |                                                                                                                                                                                                                                                                                                                                                                                               |  |
| <b>Calendar Description:</b><br>The calendar description should be written in active voice with a maximum of 40 words. Use sentence fragments, eliminate redundant words and phrases, and don't repeat what's in the course title. Make the description clear, brief, and informative.<br><br>Note: Students with credit for _____ cannot take this course for further credit.                                                                                                                                                   |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                              |  |                  |  |                        |  |                                            |  |                            |  |                      |  |              |          |                                                                                                                                                                                                                                                                                                                                                                                               |  |
| <b>Prerequisites (or NONE):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                              |  |                  |  |                        |  |                                            |  |                            |  |                      |  |              |          |                                                                                                                                                                                                                                                                                                                                                                                               |  |
| <b>Corequisites (if applicable, or NONE):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                              |  |                  |  |                        |  |                                            |  |                            |  |                      |  |              |          |                                                                                                                                                                                                                                                                                                                                                                                               |  |
| <b>Prel/corequisites (if applicable, or NONE):</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                              |  |                  |  |                        |  |                                            |  |                            |  |                      |  |              |          |                                                                                                                                                                                                                                                                                                                                                                                               |  |
| <b>Equivalent Courses (cannot be taken for additional credit)</b><br>Former course code/number:<br>Cross-listed with:<br>Equivalent course(s):<br><i>Note: Equivalent course(s) should be included in the calendar description by way of a note that students with credit for the equivalent course(s) cannot take this course for further credit.</i>                                                                                                                                                                           |          | <b>Transfer Credit</b><br>Transfer credit already exists: <input type="checkbox"/> Yes <input type="checkbox"/> No<br><br>Transfer credit requested (OREg to submit to BCCAT):<br><input type="checkbox"/> Yes <input type="checkbox"/> No (if yes, fill in transfer credit form)<br><br>Resubmit revised outline for articulation: <input type="checkbox"/> Yes <input type="checkbox"/> No<br><br>To find out how this course transfers, see <a href="http://bctransferguide.ca">bctransferguide.ca</a> . |  |                              |  |                  |  |                        |  |                                            |  |                            |  |                      |  |              |          |                                                                                                                                                                                                                                                                                                                                                                                               |  |
| <b>Total Hours: 0</b><br><b>Typical structure of instructional hours:</b> <table border="1"> <tr><td>Lecture hours</td><td></td></tr> <tr><td>Seminars/tutorials/workshops</td><td></td></tr> <tr><td>Laboratory hours</td><td></td></tr> <tr><td>Field experience hours</td><td></td></tr> <tr><td>Experiential (practicum, internship, etc.)</td><td></td></tr> <tr><td>Online learning activities</td><td></td></tr> <tr><td>Other contact hours:</td><td></td></tr> <tr><td><b>Total</b></td><td><b>0</b></td></tr> </table> |          | Lecture hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  | Seminars/tutorials/workshops |  | Laboratory hours |  | Field experience hours |  | Experiential (practicum, internship, etc.) |  | Online learning activities |  | Other contact hours: |  | <b>Total</b> | <b>0</b> | <b>Special Topics</b><br>Will the course be offered with different topics?<br><input type="checkbox"/> Yes <input type="checkbox"/> No<br><br>If yes, different lettered courses may be taken for credit:<br><input type="checkbox"/> No <input type="checkbox"/> Yes, repeat(s) <input type="checkbox"/> Yes, no limit<br><br><i>Note: The specific topic will be recorded when offered.</i> |  |
| Lecture hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                              |  |                  |  |                        |  |                                            |  |                            |  |                      |  |              |          |                                                                                                                                                                                                                                                                                                                                                                                               |  |
| Seminars/tutorials/workshops                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                              |  |                  |  |                        |  |                                            |  |                            |  |                      |  |              |          |                                                                                                                                                                                                                                                                                                                                                                                               |  |
| Laboratory hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                              |  |                  |  |                        |  |                                            |  |                            |  |                      |  |              |          |                                                                                                                                                                                                                                                                                                                                                                                               |  |
| Field experience hours                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                              |  |                  |  |                        |  |                                            |  |                            |  |                      |  |              |          |                                                                                                                                                                                                                                                                                                                                                                                               |  |
| Experiential (practicum, internship, etc.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                              |  |                  |  |                        |  |                                            |  |                            |  |                      |  |              |          |                                                                                                                                                                                                                                                                                                                                                                                               |  |
| Online learning activities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                              |  |                  |  |                        |  |                                            |  |                            |  |                      |  |              |          |                                                                                                                                                                                                                                                                                                                                                                                               |  |
| Other contact hours:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                              |  |                  |  |                        |  |                                            |  |                            |  |                      |  |              |          |                                                                                                                                                                                                                                                                                                                                                                                               |  |
| <b>Total</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>0</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                              |  |                  |  |                        |  |                                            |  |                            |  |                      |  |              |          |                                                                                                                                                                                                                                                                                                                                                                                               |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          | <b>Maximum enrolment (for information only):</b> _____<br><br><b>Expected frequency of course offerings (every semester, annually, every other year, etc.):</b>                                                                                                                                                                                                                                                                                                                                             |  |                              |  |                  |  |                        |  |                                            |  |                            |  |                      |  |              |          |                                                                                                                                                                                                                                                                                                                                                                                               |  |
| <b>Department / Program Head or Director:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |          | <b>Date approved:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                              |  |                  |  |                        |  |                                            |  |                            |  |                      |  |              |          |                                                                                                                                                                                                                                                                                                                                                                                               |  |
| <b>Faculty Council approval</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          | <b>Date approved:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                              |  |                  |  |                        |  |                                            |  |                            |  |                      |  |              |          |                                                                                                                                                                                                                                                                                                                                                                                               |  |
| <b>Campus-Wide Consultation (CWC)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |          | <b>Date of posting:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                              |  |                  |  |                        |  |                                            |  |                            |  |                      |  |              |          |                                                                                                                                                                                                                                                                                                                                                                                               |  |
| <b>Dean/Associate VP:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          | <b>Date approved:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |                              |  |                  |  |                        |  |                                            |  |                            |  |                      |  |              |          |                                                                                                                                                                                                                                                                                                                                                                                               |  |
| <b>Undergraduate Education Committee (UEC) approval</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          | <b>Date of meeting:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                              |  |                  |  |                        |  |                                            |  |                            |  |                      |  |              |          |                                                                                                                                                                                                                                                                                                                                                                                               |  |

[COURSE]

University of the Fraser Valley Official Undergraduate Course Outline

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**Learning Outcomes**

Upon successful completion of this course, students will be able to:

**Prior Learning Assessment and Recognition (PLAR)**

☐ Yes ☐ No, PLAR cannot be awarded for this course because

**Typical Instructional Methods** (guest lecturers, presentations, online instruction, field trips, etc.; may vary at department's discretion)

**Grading system:** Letter Grades: ☐ Credit/No Credit: ☐ Labs to be scheduled independent of lecture hours: Yes ☐ No ☐

**NOTE:** The following sections may vary by instructor. Please see course syllabus available from the instructor.

**Typical Text(s) and Resource Materials** (if more space is required, download Supplemental Texts and Resource Materials form)

| Author (surname, initials) | Title (article, book, journal, etc.) | Current ed.              | Publisher | Year |
|----------------------------|--------------------------------------|--------------------------|-----------|------|
| 1.                         |                                      | <input type="checkbox"/> |           |      |
| 2.                         |                                      | <input type="checkbox"/> |           |      |
| 3.                         |                                      | <input type="checkbox"/> |           |      |
| 4.                         |                                      | <input type="checkbox"/> |           |      |
| 5.                         |                                      | <input type="checkbox"/> |           |      |

**Required Additional Supplies and Materials** (software, hardware, tools, specialized clothing, etc.)

Use this section for supplies and materials for all sections of this course.

**Typical Evaluation Methods and Weighting**

|                |   |              |   |                   |   |            |    |
|----------------|---|--------------|---|-------------------|---|------------|----|
| Final exam:    | % | Assignments: | % | Midterm exam:     | % | Practicum: | %  |
| Quizzes/tests: | % | Lab work:    | % | Field experience: | % | Shop work: | %  |
| Other:         | % | Other:       | % | Other:            | % | Total:     | 0% |

**Details (if necessary):**

**Typical Course Content and Topics**

Departments typically list course content by week, unit, or module. Please provide one or more examples for a typical course term.