**ORIGINAL COURSE IMPLEMENTATION DATE:** September 2019
**REVISED COURSE IMPLEMENTATION DATE:** September 2023
**COURSE TO BE REVIEWED** (six years after UEC approval)**:** September 2024
Course outline form version: 09/08/2021

# OFFICIAL UNDERGRADUATE COURSE OUTLINE FORM

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

| | |
|---|---|
| **Course Code and Number:** ENV 200 | **Number of Credits:** 4 Course credit policy (105) |
| **Course Full Title:** Living in Our Watershed<br>**Course Short Title:** Living in Our Watershed | |
| **Faculty:** Faculty of Science | **Department:** School of Land Use and Environmental Change |

**Calendar Description:**

Uses the Fraser Lowlands as a laboratory for the development of multi-disciplinary and hands-on approaches to defining and sustaining our watershed and the ecological and cultural communities within it.

Note: Field trips outside of class time will be required. Please refer to program website for field experience scheduling information.

| | |
|---|---|
| **Prerequisites (or NONE):** | 18 university-level credits including GEOG 111. |
| **Corequisites (if applicable, or NONE):** | |
| **Pre/corequisites (if applicable, or NONE):** | |

**Antirequisite Courses** *(Cannot be taken for additional credit.)*

Former course code/number:

Cross-listed with:

Equivalent course(s):

*(If offered in the previous five years, antirequisite course(s) will be included in the calendar description as a note that students with credit for the antirequisite course(s) cannot take this course for further credit.)*

**Typical Structure of Instructional Hours**

| | |
|---|---|
| Lecture/seminar | 20 |
| Supervised laboratory hours (science lab) | 25 |
| Experiential (field trip) | 15 |
| | |
| | |
| **Total hours** | **60** |

**Scheduled Laboratory Hours**

Labs to be scheduled independent of lecture hours: ☐ No ☒ Yes

**Course Details**

Special Topics course: **No**
*(If yes, the course will be offered under different letter designations representing different topics.)*

Directed Study course: **No**
*(See policy 207 for more information.)*

Grading System: **Letter grades**

Delivery Mode: **May be offered in multiple delivery modes**

Expected frequency: **Winter only**

Maximum enrolment (for information only)**: 28**

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

PLAR is available for this course.

**Transfer Credit** *(See **bctransferguide.ca**.)*

Transfer credit already exists: **No**

Submit outline for (re)articulation: **Yes**
*(If yes, fill in transfer credit form.)*

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|---|---|---|
| **Department approval** | **Date of meeting:** | October 2022 |
| **Faculty Council approval** | **Date of meeting:** | November 4, 2022 |
| **Undergraduate Education Committee (UEC) approval** | **Date of meeting:** | November 25, 2022 |

**Learning Outcomes** *(These should contribute to students' ability to meet program outcomes and thus Institutional Learning Outcomes.)*

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

1. Identify the features that characterize and define one's watershed(s).
2. Discuss the ways in which community, region, and sustainability are envisioned at different scales.
3. Acknowledge and integrate Indigenous ways of knowing our shared environments into assessing watershed futures.
4. Demonstrate ability to use multiple disciplinary approaches and tools used to create more sustainable environments specific to unique regional contexts.
5. Work collaboratively with others to devise solutions to local environmental challenges.
6. Assess one's own ethics and practices in relation to bioregional and sustainability frameworks.

**Recommended Evaluation Methods and Weighting** *(Evaluation should align to learning outcomes.)*

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|---|---|---|---|---|---|
| Assignments: | 40% | Field evaluation: | 20% | Project: | 20% |
| Lab work: | 20% | | % | | % |

**Details:**

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

**Typical Instructional Methods** *(Guest lecturers, presentations, online instruction, field trips, etc.)*

This may be a multi-instructor course that integrates a variety of approaches to discussing, analyzing, and working towards improving bioregional communities. Includes field trips, lectures, guest speakers, workshops, and seminar discussion.

**Texts and Resource Materials** *(Include online resources and Indigenous knowledge sources. Open Educational Resources (OER) should be included whenever possible. If more space is required, use the Supplemental Texts and Resource Materials form.)*

| | Type | Author or description | Title and publication/access details | Year |
|---|---|---|---|---|
| **1.** | Textbook | Kimmer, R.W. | Braiding Sweetgrass: Indigenous Wisdom, Scientific Knowledge, and the Teaching of Plants | 2014 |
| **2.** | Textbook | Wackemagel and Rees | Our Ecological Footprint: Reducing Human Impact on Earth | 1996 |
| **3.** | Textbook | Wilson, E.O. | Biophilia: The Human Bond with Other Species | 1996 |
| **4.** | Journal | Wegner, J, et al | Shifting from Vision to Reality: Perspectives on Regional Food Policies and Food System Planning Barriers at the Local Level. *Canadian Journal of Urban Research* | 2015 |
| **5.** | Textbook | Mullinix, K, et al | The Future of Our Food System: Report on the Southwest BC Bioregion Food System Design Project | 2016 |

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

N/A

**Course Content and Topics**

| | |
|---|---|
| Week 1: | Defining concepts (e.g., sustainability); Mental mapping exercises ("What is your watershed?") |
| Week 2: | How to define our watershed? What issues are unique to the region? What issues are more national, global? Research strategies for answering these questions. |
| Weeks 3-4: | Physical geography and ecology of our watershed |
| Week 5: | Field exercises/ field trip, e.g., Sumas Lake |
| Weeks 6-7: | First Nations, settler societies, and ecological change in the Fraser Lowlands |
| Weeks 8-9: | Workshops: Reflecting on and communicating our "place" in the Fraser Lowlands |
| Weeks 10-11: | Sustaining land and economy: agriculture, development, and the Fraser Lowlands |
| Weeks 12-13: | Building resiliency in changing bioregions: climate change and community evolution in our watershed |