

**SAMPLE COURSE OUTLINE****Course Code, Number, and Title:**

CHEM 1117: Environmental Chemistry

**Course Format:**

[Course format may vary by instructor. The typical course format would be:]

Lecture 3 h + Seminar 0 h + Lab 2

**Credits:** 4

**Transfer credit:** For information, visit [bctransferguide.ca](http://bctransferguide.ca)

**Course Description, Prerequisites, Corequisites:**

This course emphasizes the practical applications of chemistry in nature, living systems, and society. The role of science in shaping our view of ourselves and our surroundings will also be examined. An opportunity to do science will be provided by means of participatory lecture demonstrations, laboratory experiments, and take-home experiments.

*Prerequisites and Corequisites unavailable, please consult Department for details*

**Learning Outcomes:**

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

- Analyze the subatomic composition of elements in terms of protons, electrons and neutrons and their effects on the properties of atoms
- Criticize how metals are extracted from ores and its environmental implications
- Explain nuclear transformations and their applications
- Explain the flow of energy in connection to different chemical reactions
- Generate ideas to manipulate and capture these energy forms. Discuss the implication on the environment when nuclear energy or solar energy is manipulated to power society's needs
- Compare and contrast all the atmospheric cycles and their impact on air sheds and air pollution
- Illustrate the intermolecular forces between water molecules and other compounds. Explain the behaviour of chemical substances in water, and
- account for factors involved in water pollution

**Instructor(s):** TBA

**Office:** TBA

**Phone:** 604 323 XXXX

**Email:** TBA

**Office Hours:** TBA

snəwəyət leləm Langara College acknowledges that we are located on the unceded territory of the Musqueam people.

## **Textbook and Course Materials:**

[Textbook selection may vary by instructor. An example of texts and course materials for this course might be:]

Summer 2019:

For textbook information, visit [https://mycampusstore.langara.bc.ca/buy\\_courselisting.asp?selTerm=3|8](https://mycampusstore.langara.bc.ca/buy_courselisting.asp?selTerm=3|8)

*Note: This course may use an electronic (online) instructional resource that is located outside of Canada for mandatory graded class work. You may be required to enter personal information, such as your name and email address, to log in to this resource. This means that your personal information could be stored on servers located outside of Canada and may be accessed by U.S. authorities, subject to federal laws. Where possible, you may log in with an email pseudonym as long as you provide the pseudonym to me so I can identify you when reviewing your class work.*

## **Assessments and Weighting:**

**Final Exam %**

**Other Assessments %**

(An example of other assessments might be:) %

*Information currently unavailable, please consult Department for details*

## **Grading System:**

Specific grading schemes will be detailed in each course section outline.

*Information currently unavailable, please consult Department for details*

## **Topics Covered:**

[Topics covered may vary by instructor. An example of topics covered might be:]

*Information currently unavailable, please consult Department for details*

As a student at Langara, you are responsible for familiarizing yourself and complying with the following policies:

## **College Policies:**

[E1003 - Student Code of Conduct](#)

[F1004 - Code of Academic Conduct](#)

[E2008 - Academic Standing - Academic Probation and Academic Suspension](#)

[E2006 - Appeal of Final Grade](#)

[F1002 - Concerns about Instruction](#)

[E2011 - Withdrawal from Courses](#)

*This generic outline is for planning purposes only.*

**Departmental/Course Policies:**

*This generic outline is for planning purposes only.*