

SAMPLE COURSE OUTLINE

Creation date: November 25, 2020

Revision date:

Course Code, Number, and Title:

BIOL 3100: Plants and People

Course Format:

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

Lecture 4.0 h + Seminar 0.0 h + Lab. 3.0 h

Credits: 3.0

Transfer Credit: For information, visit bctransferguide.ca

Course Description, Prerequisites, Corequisites:

This course explores the importance of plants in human societies as sources of food, beverages, fuels, raw materials, medicine, and psychoactive substances. Topics include plant anatomy, cell and molecular biology, genetics, ecology, and evolution, particularly as they relate to the economic and cultural uses of plants.

Prerequisite(s): A minimum "C-" grade in 15 credits.

Learning Outcomes:

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

- Describe the incredible diversity of plants, algae, and fungi in our world
- Discuss the critical role that plants, algae and fungi play in our societies including their uses as food, drinks, spices, perfumes, raw materials, fuels, dyes, medicinal and mind influencing drugs
- Identify and distinguish the following plant organs: flowers, fruits, leaves, stems, and roots
- Identify the major plant families that are important in our society
- Explain the basic principles of plant biochemistry, genetics, cell biology, ecology and evolution
- Apply common practices to producing food, beverages and other items

Instructor(s): TBA

Office: TBA

Phone: (604) 323-XXXX

Email: TBA

Office Hours: TBA

Textbook and Course Materials:

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

For textbook information, visit https://mycampusstore.langara.bc.ca/buy_courselisting.asp?selTerm=3|8

"This generic outline is for planning purposes only".

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 20%

Other Assessments 80%

(An example of other assessments might be:)

Lab Work 30%

Midterm Exam 20%

Quizzes/Tests 10%

Assignments 10%

Project 10%

Grading System:

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

Information unavailable, please consult Department for details.

Topics Covered:

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

- Introduction: the role of plants in our lives and the origin of crops
- Cellular respiration and photosynthesis and the nutrient cycle
- Plant organs: leaves, stems, roots, flowers and fruits
- Pollination and Reproduction
- Plant families I: grasses, legumes, and monocots
- Plant families II: the other major plant families including Asteraceae (sunflower family), Brassicaceae (cabbage family), Cucurbitaceae (gourd family), Lamiaceae (mint family), Rosaceae (apple and cherry family), and Solanaceae (potato and tomato family)
- Starchy staples, feeding a hungry world, and human nutrition
- Genetics and manipulation of plants
- Beverages, spices, and perfumes
- Raw materials and dyes
- Biochemistry and medicinal plants
- Psychoactive and poisonous plants
- The importance of fungi in our society

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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](#)

Departmental/Course Policies:

Information unavailable, please consult Department for details.

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