

COURSE SYLLABUS



COURSE TITLE: BIOL-102: Non-Majors Biology(Diversity)

CLASS SECTION: 001 A/B

TERM: Fall 2024

COURSE CREDITS: 3

DELIVERY METHOD(S): Face to Face

Camosun College campuses are located on the traditional territories of the Ləkʷəŋən and W̱SÁNEĆ peoples. We acknowledge their welcome and graciousness to the students who seek knowledge here.

Learn more about Camosun's [Territorial Acknowledgement](#).

INSTRUCTOR DETAILS

NAME: David Raju

EMAIL: raju@camosun.ca

OFFICE: Fisher 342A

HOURS: M/Th 2:30-3:30PM

As your course instructor, I endeavour to provide an inclusive learning environment. However, if you experience barriers to learning in this course, do not hesitate to discuss them with me. Camosun College is committed to identifying and removing institutional and social barriers that prevent access and impede success.

CALENDAR DESCRIPTION

An introduction to biological diversity, evolution, ecology, scientific knowledge and the biodiversity crises. Includes a survey of the major taxonomic groups of living organisms, the evidence for evolution, natural selection, the nature of scientific knowledge, and the impact of humans on the ecology of populations, communities and ecosystems.

PREREQUISITE(S):

One of:

- C in English 12
- C in Camosun Alternative

CO-REQUISITE(S):

One of:

- C in English 12
- C in Camosun Alternative

EXCLUSION(S):

Not Applicable

COURSE LEARNING OUTCOMES / OBJECTIVES

Upon completion of this course a student will be able to:

1. Identify and classify living organisms to their major taxonomic groupings, and to list their defining characteristics.
2. Describe the major lines of evidence for evolution.
3. Explain the mechanics of natural selection and speciation.
4. Discuss the nature of scientific knowledge; its limits and strengths, and how it is produced.
5. Explain basic concepts in population and community ecology.
6. Recognize and explain the major threats to biodiversity and ecosystem processes, and ways in which these threats might be mitigated.

REQUIRED MATERIALS & RECOMMENDED PREPARATION / INFORMATION

Learning materials will be provided including a biology e-textbook.

COURSE SCHEDULE, TOPICS, AND ASSOCIATED PREPARATION / ACTIVITY / EVALUATION

The following schedule and course components are subject to change with reasonable advance notice, as deemed appropriate by the instructor.

BIOLOGY 102-001A/B SCHEDULE:

Monday Lecture from 1:00-2:20 PM in Fisher 268

Thursday Lecture from 1:00-2:20 PM in Fisher 302

Friday Lab B from 9:30-12:20 and Lab A from 1:30-4:20PM in Fisher 226

Week, Day, and Date Lecture or Lab	Lab# or Lecture # Main Topical Heading	When Lecture or Lab Due Time, Day, and Date
W1, M, Sep 2, NO LECTURE	NO LECTURE	NO LECTURE
W1, Th, Sep 5, Lecture	Lec#1 Introduction to Diversity	Same Day
W1, F, Sep 6, Lab	Lab#1 Entomology	Same Day
W2, M, Sep 9, Lecture	Lec#2 Insect Study	Sat, Sep 14, before 11PM
W2, Th, Sep 12, Lecture	Lec#3 Systematics	Sun, Sep 15, before 11PM
W2, F, Sep 13, Lab	Lab#2 Botany	Same Day
W3, M, Sep 16, Lecture	Lec#4 Keystone Species	Sat, Sep 21, before 11PM
W3, Th, Sep 19, Lecture	Lec#5 Scientific Method	Sun, Sep 22, before 11PM
W3, F, Sep 20, Lab	Lab#3 Micro-organisms	Same Day
W4, M, Sep 23, Lecture	Lec#6 Selection	Sat, Sep 28, before 11PM
W4, Th, Sep 26, Lecture	Lec#7 Feeding Habits	Sun, Sep 29, before 11PM
W4, F, Sep 27, Lab	Lab#4 Mycology	Same Day
W5, M, Sep 30, NO LECTURE	NO LECTURE	NO LECTURE
W5, Th, Oct 3, Lecture	Lec#8 Invertebrate Study	Sun, Oct 6, before 11PM
W5, F, Oct 4, Lab	Lab#5 Invertebrate Zoology	Same Day
W6, M, Oct 7, Lecture	Lec#9 Animal Physiology	Sat, Oct 12, before 11PM
W6, Th, Oct 10, Lecture	Lec#10 Invasive Species	Sun, Oct 13, before 11PM
W6, F, Oct 11, Lab	Lab#6 Planaria Investigation	Same Day
W7, M, Oct 14, NO LECTURE	NO LECTURE	NO LECTURE
W7, Th, Oct 17, Lecture	Lec#11 Fish Study	Sun, Oct 20, before 11PM
W7, F, Oct 18, Lab	Lab#7 Ichthyology	Same Day
W8, M, Oct 21, Lecture	Lec#12 Biomagnification	Sat, Oct 26, before 11PM
W8, Th, Oct 24, Lecture	Lec#13 Disappearing Species	Sun, Oct 27, before 11PM
W8, F, Oct 25, Lab	Lab#8 Herpetology	Same Day
W9, M, Oct 28, Lecture	Lec#14 Conservation	Sat, Nov 2, before 11PM
W9, Th, Oct 31, Lecture	Lec#15 Biodiversity	Sun, Nov 3, before 11PM
W9, F, Nov 1, Lab	Lab#9 Ornithology	Same Day
W10, M, Nov 4, Lecture	Lec#16 Symbiosis	Sat, Nov 9, before 11PM
W10, Th, Nov 7, Lecture	Lec#17 Parasitology	Sun, Nov 10, before 11PM
W10, F, Nov 8, Lab	Lab#10 Owl Pellet Ecology	Same Day
W11, M, Nov 11, NO LECTURE	NO LECTURE	NO LECTURE
W11, Th, Nov 14, Lecture	Lec#18 Mammal Study	Sun, Nov 17, before 11PM
W11, F, Nov 15, Lab	Lab#11 Mammals	Same Day
W12, M, Nov 18, Lecture	Lec#19 Threatened Species	Sat, Nov 23, before 11PM
W12, Th, Nov 21, Lecture	Lec#20 Restoration	Sun, Nov 24, before 11PM
W12, F, Nov 22, Lab	Lab#12A Life Cycles I	Same Day
W13, M, Nov 25, Lecture	Lec#21 Environmental Change	Sat, Nov 30, before 11PM
W13, Th, Nov 28, Lecture	Lec#22 Indicator Species	Sun, Dec 1, before 11PM
W13, F, Nov 29, Lab	Lab#12B Life Cycles II	Same Day
W14, M, Dec 2, Lecture	Lec#23 Evolution	Sat, Dec 7, before 11PM
W14, Th, Dec 5, Lecture	Lec#24 Speciation	Sun, Dec 8, before 11PM
W14, F, Dec 6, Lab	Lab#13 Fragmentation	Same Day

Students registered with the Centre for Accessible Learning (CAL) who complete quizzes, tests, and exams with academic accommodations have booking procedures and deadlines with CAL where advanced noticed is required. Deadlines can be reviewed on the [CAL exams page](http://camosun.ca/services/accessible-learning/exams.html). <http://camosun.ca/services/accessible-learning/exams.html>

EVALUATION OF LEARNING

DESCRIPTION	WEIGHTING
Lecture Assignments (24 assignments X 2 percent)	48%
Lab Reports (13 reports X 4 percent)	52%
TOTAL	100%

If you have a concern about a grade you have received for an evaluation, please come and see me as soon as possible. Refer to the [Grade Review and Appeals](http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.14.pdf) policy for more information. <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.14.pdf>

COURSE GUIDELINES & EXPECTATIONS

On the first day of class you will email the instructor raju@camosun.ca the following information:

- 1) Subject line of email: "Your Full Name"
- 2) In the body of the email:
 - a) Once again your full name
 - b) Your student number
 - c) Your section (001A, 001B)
 - d) What day and time is your lab? What room is it in?
 - e) What days and times are your two lectures? What room(s) are they in?
 - f) The email address you are using to send this email (DO NOT USE D2L).
 - g) Any Questions you may have about the Course outline thus far that wasn't answered on the first day of classes, would like repeated, or feel more comfortable asking by email.

This course has been carefully designed so that the only stress there is will be the stress you create for yourself. I am well aware that proper learning can't take place if stress is present and so I will do my part to provide a proper learning environment but this can't be accomplished without you doing your part. And so complete assignments ahead of time so that you have time to ask questions before the due date, show up to lab early, follow all directions carefully, and most of all have fun. The course is not based on memorization and regurgitation teaching methods but rather is based on learning through student centered processes such as active learning and discovery to achieve the learning outcomes of the course. The learning is in the search. In other words those that do the doing do the learning. For meaningful and long lasting learning it is my belief that you can not be a passive participant in the process but rather must be the investigator in an investigation and the investigation you have been assigned is Biology 102. I hope you enjoy the course and make the most of it. After all, you get out of life what you put into it. 😊

SCHOOL OR DEPARTMENTAL INFORMATION

STUDENT RESPONSIBILITY

Enrolment at Camosun assumes that the student will become a responsible member of the College community. As such, each student will display a positive work ethic, assist in the preservation of College property, and assume responsibility for their education by researching academic requirements and policies; demonstrating courtesy and respect toward others; and respecting expectations concerning attendance, assignments, deadlines, and appointments.

SUPPORTS AND SERVICES FOR STUDENTS

Camosun College offers a number of services to help you succeed in and out of the classroom. For a detailed overview of the supports and services visit camosun.ca/services.

Support Service	Website
Academic Advising	camosun.ca/services/academic-supports/academic-advising
Accessible Learning	camosun.ca/services/academic-supports/accessible-learning
Counselling	camosun.ca/services/health-and-wellness/counselling-centre
Career Services	camosun.ca/services/co-operative-education-and-career-services
Financial Aid and Awards	camosun.ca/registration-records/financial-aid-awards
Help Centres (Math/English/Science)	camosun.ca/services/academic-supports/help-centres
Indigenous Student Support	camosun.ca/programs-courses/iecc/indigenous-student-services
International Student Support	camosun.ca/international
Learning Skills	camosun.ca/services/academic-supports/help-centres/writing-centre-learning-skills
Library	camosun.ca/services/library
Office of Student Support	camosun.ca/services/office-student-support
Ombudsperson	camosun.ca/services/ombudsperson
Registration	camosun.ca/registration-records/registration
Technology Support	camosun.ca/services/its
Writing Centre	camosun.ca/services/academic-supports/help-centres/writing-centre-learning-skills

If you have a mental health concern, please contact Counselling to arrange an appointment as soon as possible. Counselling sessions are available at both campuses during business hours. If you need urgent support after-hours, please contact the Vancouver Island Crisis Line at 1-888-494-3888 or call 911.

COLLEGE-WIDE POLICIES, PROCEDURES, REQUIREMENTS, AND STANDARDS

Academic Integrity

Students are expected to comply with all College policy regarding academic integrity; which is about honest and ethical behaviour in your education journey. The following guide is designed to help you understand your responsibilities: <https://camosun.libguides.com/academicintegrity/welcome>

Please visit <https://camosun.ca/sites/default/files/2021-05/e-1.13.pdf> for Camosun's Academic Integrity policy and details for addressing and resolving matters of academic misconduct.

Academic Accommodations for Students with Disabilities

Camosun College is committed to achieving full accessibility for persons with disabilities. Part of this commitment includes arranging appropriate academic accommodations for students with disabilities to ensure they have an equitable opportunity to participate in all of their academic activities. If you are a student with a documented disability and think you may need accommodations, you are strongly encouraged to contact the Centre for Accessible Learning (CAL) and register as early as possible. Please visit the CAL website for more information about the process of registering with CAL, including important deadlines:

<https://camosun.ca/cal>

Academic Progress

Please visit <https://camosun.ca/sites/default/files/2023-02/e-1.1.pdf> for further details on how Camosun College monitors students' academic progress and what steps can be taken if a student is at risk of not meeting the College's academic progress standards.

Course Withdrawals Policy

Please visit <https://camosun.ca/sites/default/files/2021-05/e-2.2.pdf> for further details about course withdrawals. For deadline for fees, course drop dates, and tuition refund, please visit <https://camosun.ca/registration-records/tuition-fees#deadlines>.

Grading Policy

Please visit <https://camosun.ca/sites/default/files/2021-05/e-1.5.pdf> for further details about grading.

Grade Review and Appeals

Please visit <https://camosun.ca/sites/default/files/2021-05/e-1.14.pdf> for policy relating to requests for review and appeal of grades.

Medical / Compassionate Withdrawals

Students who are incapacitated and unable to complete or succeed in their studies by virtue of serious and demonstrated exceptional circumstances may be eligible for a medical/compassionate withdrawal (see [Medical/Compassionate Withdrawals policy](#)). Please visit <https://camosun.ca/services/forms#medical> to learn more about the process involved in a medical/compassionate withdrawal.

Sexual Violence

Camosun is committed to creating a campus culture of safety, respect, and consent. Camosun's Office of Student Support is responsible for offering support to students impacted by sexual violence. Regardless of when or where the sexual violence occurred, students can access support at Camosun. The Office of Student Support will make sure students have a safe and private place to talk and will help them understand what supports are available and their options for next steps. The Office of Student Support respects a student's right to choose what is right for them. For more information see Camosun's Sexualized Violence Policy: <https://camosun.ca/sites/default/files/2021-05/e-2.9.pdf> and camosun.ca/services/sexual-violence-support-and-education.

To contact the Office of Student Support: oss@camosun.ca or by phone: 250-370-3046 or 250-370-3841

Student Misconduct (Non-Academic)

Camosun College is committed to building the academic competency of all students, seeks to empower students to become agents of their own learning, and promotes academic belonging for everyone. Camosun also expects that all students to conduct themselves in a manner that contributes to a positive, supportive, and safe learning environment. Please review Camosun College's Student Misconduct Policy at <https://camosun.ca/sites/default/files/2021-05/e-2.5.pdf> to understand the College's expectations of academic integrity and student behavioural conduct.

Looking for other policies?

The full suite of College policies and directives can be found here: <https://camosun.ca/about/camosun-college-policies-and-directives>

Changes to this Syllabus: Every effort has been made to ensure that information in this syllabus is accurate at the time of publication. The College reserves the right to change courses if it becomes necessary so that course content remains relevant. In such cases, the instructor will give the students clear and timely notice of the changes.