

# COURSE SYLLABUS



COURSE TITLE: BIOL-105: Introduction to Marine Biology

CLASS SECTION: 001

TERM: F22

COURSE CREDITS: 4

DELIVERY METHOD(S): Lecture & Laboratory/Field

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

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

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For COVID-19 information please visit <https://legacy.camosun.ca/covid19/index.html>

*Camosun College requires mandatory attendance for the first class meeting of each course. If you do not attend, and do not provide your instructor with a reasonable explanation in advance, you will be removed from the course and the space offered to the next waitlisted student.*

## INSTRUCTOR DETAILS

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NAME: Annette Dehalt, Msc

EMAIL: [dehalt@camosun.ca](mailto:dehalt@camosun.ca) WEB: <https://annettedehalt.opened.ca/>

OFFICE: F350D

HOURS: W/F 11:30am - 12:20pm

*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

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Introduction to the basic principles of ocean science, with emphasis on marine biodiversity and integration of marine species into coastal and offshore ecological processes. Human impact on marine life will be explored, exemplified by local and global case studies, shore and boat-based field trips required. Additional field costs of approx \$50 for charter boat time should be budgeted.

*Note: due to noise pollution for endangered Southern Resident killer whales, boat tours are no longer offered as part of this course.*

## PREREQUISITE(S):

One of:

- C in English 12
- C in Camosun Alternative

## CO-REQUISITE(S):

Not Applicable

## EXCLUSION(S):

Not Applicable

## COURSE LEARNING OUTCOMES / OBJECTIVES

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

1. Explain basic biological and ecological concepts, including evolution, food web structure and population dynamics, as well as the nature of the scientific process.
2. Assign defining characteristics to the major categories of marine biodiversity, including taxonomic and ecosystem diversity.
3. Explore and evaluate the role of abiotic (geological, chemical, physical) factors in determining the distribution and abundance of marine species.
4. Describe the ecological niches of major marine life forms.
5. Discuss current environmental issues in the marine environment, and examine the multidisciplinary aspects (scientific, social, political, legal and indigenous) of these problems.
6. Develop and employ critical thinking and problem-solving skills regarding scientific inquiries, field situations, and environmental problems.
7. Demonstrate practical skills regarding marine sampling methods and materials, tide and current calculations, basic concepts of coastal navigation and marine safety.

## REQUIRED MATERIALS & RECOMMENDED PREPARATION / INFORMATION

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Text: Introduction to Marine Biology, 4e. Karleskint, Turner, Small, 2020. (e-text available, please see link on course website)

Laboratory Exercises to be printed from website: <https://annettedehalt.opened.ca/>

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.

WK	DATE RANGE	LECTURE TOPIC	LAB/FIELD ACTIVITY ( <i>FT</i> = Field Trip)
1	Sep 7-9	Course Introduction; Field Safety; Ways of Knowing about Marine Life (Ch. 1 excerpts + readings)	<u><i>FT (own transport): Shore &amp; Intertidal Exploration at Cattle Point</i></u>
2	Sep 14-16	Basics of Ecology (Ch. 2)	Lab Safety Medicine Wheel Seminar Introduction Tides and Compass Lab
3	Sep 21-23	<b>Practice Quiz</b> Basics of Biology (Ch. 5 excerpts)	<u><i>FT (BUS): Traditional Ecological Knowledge and Wisdom (TEKW) of the Tsawout First Nation</i></u>
4	Sep 28, 29 ( <i>Sep 30=holiday</i> )	<b>Test 1 (W)</b> Uni-cellular Algae (Ch. 6 excerpts)	Microscope Lab <b>Seminar topic due</b>
5	Oct 5-7	Multi-cellular Algae (Ch. 7)	Algae Lab
6	Oct 12-14	Marine Invertebrates (Ch. 8)	<b>LAB EXAM I</b>
7	Oct 19-21	Marine Invertebrates (Ch. 8 cont.)	Invertebrate Lab I <b>Seminar outline due</b>
8	Oct 26-28	<b>Test 2 (F)</b> Marine Invertebrates (Ch. 9)	<u><i>FT (BUS): Fisheries Management - Institute of Ocean Sciences (IOS)</i></u>
9	Nov 2-4	Marine Invertebrates (Ch. 9 cont.) Marine Fishes (Ch. 10)	Invertebrate Lab II
10	Nov 9, 10 ( <i>Nov 11=holiday</i> )	Marine Fishes cont. (Ch. 10)	<b>Medicine Wheel Seminar</b> (room TBA)
11	Nov 16-18	Marine Reptiles and Birds (Ch.11) Marine Mammals (Ch.12)	Vertebrate Lab
12	Nov 23-25	<b>Test 3 (F)</b> Marine Habitat (Ch. 3&4 excerpts) Marine Ecosystems (Ch. 13-18 excerpts)	<u><i>FT (BUS): Marine Birds of Esquimalt Lagoon</i></u>
13	Nov 30-Dec 2	Oceans in Jeopardy (Ch. 19 excerpts & Ch. 20)	Marine Animal Species ID – Review Lab
14	Dec 7-9	Oceans in Jeopardy cont. (Ch. 20)	<b>LAB EXAM II</b>

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 scan 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

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DESCRIPTION	WEIGHTING
3 tests	30%
2 lab exams	30%
assignments	10%
seminar	5%
final exam	25%
	<b>TOTAL</b>
	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

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**Academic Conduct: Cheating or plagiarism will not be tolerated in any form, and will result in “0”.**

**Attendance:** You are expected to attend all classes, labs and field-trips, and be on time. It is *your* responsibility to acquire all information given during missed class time, incl. notes, hand-outs, assignments, laboratory or field data, changed exam dates etc.

**Exams: Exams have to be written when scheduled.** There are no make-up exams during the term. **A missed exam results in “0” except in case of *documented* emergency or illness (doctor’s note required - stating that student is too sick to attend class during a specified time period).** Valid documentation of illness/emergency needs be received **within 1 week** of the illness/emergency. With a valid excuse, the weighting of one missed exam will be added to the final exam, along with additional questions on course material of that unit. **Please bring a pen to all tests. No programmable devices are allowed in exams.**

**Exam questions** will be based on material covered or pointed out in class. However, studying additional details in the corresponding textbook sections will help you understand the material more thoroughly. It is not sufficient simply to memorize point-form notes! Please keep up with your readings, and take advantage of office hours if you need extra clarification and help, or simply would like to discuss a topic a little further.

**Assignments:** Lab assignments can only be handed in for labs or field trips actually attended (except in cases of documented illness/emergency). You are encouraged to discuss assignments with your lab partners, however, **each assignment has to be your individual work – beware of plagiarism.** Unless

otherwise stated, a **hard copy** of the assignment is due at the ***beginning*** of the following week's scheduled lab period. A **10%/day non-negotiable late penalty** (rounded to the nearest half mark) applies, except in cases of documented illness/emergency. Late assignments will **not** be accepted after marked assignments have been returned to the rest of the class – usually one week after the due date. A **professional format** is expected, i.e. a **neat, legible, clean** copy, word-processed or in **pen**. If the assignment is more than one page, please print double-sided if possible; separate pages must be **stapled**. "Rough" drafts risk rejection and a subsequent late penalty or reduced marks.

**Study Habits:** You will probably find this course not very difficult, but surprisingly labor-intensive. Good (and regular!!) study habits are required to do well in this course. One hour/day is a good starting point. Joining a study group can help make this time more fun. Some "**study hints**" (beyond reading, highlighting and making flash cards!) for efficient use of study time are posted on the course web site.

**Lecture notes** (pdf of PPT) and **lab/field exercises** will be posted on the web for you to **print and review prior to class**. Printing (multiple slides/page) is highly recommended, so you can spend the majority of class time listening and participating rather than copying notes which have been available prior to lecture. However, the point form PPT lecture notes provided are meant to serve as a time saver and study guideline, not as your sole source of information. You will usually need to write down additional notes of examples and explanations given during lecture. It is also recommended practice to transcribe these notes into a study-friendly format after each lecture, incorporating additional information from your textbook and other sources. Study these notes before the next lecture or associated lab in order to be well-prepared and make the most out of class time.

#### SCHOOL OR DEPARTMENTAL INFORMATION

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General Department Safety Policies will be provided in lab. Each student is required to sign and hand in a waiver prior to field trip participation.

#### STUDENT RESPONSIBILITY

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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

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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 <http://camosun.ca/students/>.

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Academic Advising

<http://camosun.ca/advising>

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Accessible Learning

<http://camosun.ca/accessible-learning>

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Counselling

<http://camosun.ca/counselling>

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Career Services

<http://camosun.ca/coop>

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Financial Aid and Awards

<http://camosun.ca/financialaid>

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Help Centres (Math/English/Science)	<a href="http://camosun.ca/help-centres">http://camosun.ca/help-centres</a>
Indigenous Student Support	<a href="http://camosun.ca/indigenous">http://camosun.ca/indigenous</a>
International Student Support	<a href="http://camosun.ca/international/">http://camosun.ca/international/</a>
Learning Skills	<a href="http://camosun.ca/learningskills">http://camosun.ca/learningskills</a>
Library	<a href="http://camosun.ca/services/library/">http://camosun.ca/services/library/</a>
Office of Student Support	<a href="http://camosun.ca/oss">http://camosun.ca/oss</a>
Ombudsperson	<a href="http://camosun.ca/ombuds">http://camosun.ca/ombuds</a>
Registration	<a href="http://camosun.ca/registration">http://camosun.ca/registration</a>
Technology Support	<a href="http://camosun.ca/its">http://camosun.ca/its</a>
Writing Centre	<a href="http://camosun.ca/writing-centre">http://camosun.ca/writing-centre</a>

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 Accommodations for Students with Disabilities

The College is committed to providing appropriate and reasonable academic accommodations to students with disabilities (i.e. physical, depression, learning, etc). If you have a disability, the [Centre for Accessible Learning](#) (CAL) can help you document your needs, and where disability-related barriers to access in your courses exist, create an accommodation plan. By making a plan through CAL, you can ensure you have the appropriate academic accommodations you need without disclosing your diagnosis or condition to course instructors. Please visit the CAL website for contacts and to learn how to get started: <http://camosun.ca/services/accessible-learning/>

### Academic Integrity

Please visit <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.13.pdf> for policy regarding academic expectations and details for addressing and resolving matters of academic misconduct.

### Academic Progress

Please visit <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/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 <http://camosun.ca/about/policies/education-academic/e-2-student-services-and-support/e-2.2.pdf> for further details about course withdrawals. For deadline for fees, course drop dates, and tuition refund, please visit <http://camosun.ca/learn/fees/#deadlines>.

### Grading Policy

Please visit <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.5.pdf> for further details about grading.

### Grade Review and Appeals

Please visit <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.14.pdf> for policy relating to requests for review and appeal of grades.

### Mandatory Attendance for First Class Meeting of Each Course

Camosun College requires mandatory attendance for the first class meeting of each course. If you do not attend, and do not provide your instructor with a reasonable reason in advance, you will be removed from the course and the space offered to the next waitlisted student. For more information, please see the “Attendance” section under “Registration Policies and Procedures” (<http://camosun.ca/learn/calendar/current/procedures.html>) and the Grading Policy at <http://camosun.ca/about/policies/education-academic/e-1-programming-and-instruction/e-1.5.pdf>.

### 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. Please visit <http://camosun.ca/about/policies/education-academic/e-2-student-services-and-support/e-2.8.pdf> to learn more about the process involved in a medical/compassionate withdrawal.

### Sexual Violence and Misconduct

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 or misconduct 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 and Misconduct Policy: <http://camosun.ca/about/policies/education-academic/e-2-student-services-and-support/e-2.9.pdf> and [camosun.ca/sexual-violence](http://camosun.ca/sexual-violence). To contact the Office of Student Support: [oss@camosun.ca](mailto:oss@camosun.ca) or by phone: 250-370-3046 or 250-3703841

### 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 <http://camosun.ca/about/policies/education-academic/e-2-student-services-and-support/e-2.5.pdf> to understand the College’s expectations of academic integrity and student behavioural conduct.

**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.