

Dalhousie University is in Mi'kma'ki, the ancestral and unceded territory of the Mi'kmaq. We acknowledge the histories, contributions, and legacies of the African Nova Scotian people and communities who have been here for over 400 years.

Instructor: Zoe Finkel, zfinkel@dal.ca, office hours by appointment

Lectures: M 14:35-17:25, 3652 LSC Oceanography wing

Course delivery: In-person, no recordings

Calendar Description

The course will survey historic, influential papers in Biological Oceanography, as well as modern papers that put the classics in perspective.

Course Prerequisites

Permission of the instructor.

Learning Objectives

- Provide students with an awareness, understanding, and appreciation of major breakthroughs in Biological Oceanography.
- To develop skills in reading scientific literature, presenting and discussing scientific results.
- Refine students' understanding of Biological Oceanography and what constitutes great science.

Materials

- There is no required textbook.
- Course website: This course uses Dalhousie's online learning system Brightspace.
- The course will be primarily delivered as student presentations, class discussions, and guest lectures.

Assessment

- Weekly written summaries of assigned papers due in class and participation in discussion of the papers: 60%. Detailed instructions are provided on Brightspace.
- Oral presentations of papers: 40%. Detailed instructions are provided on Brightspace.
- Written and oral assignments will be assessed according to students' ability to (a) demonstrate an understanding of the papers, and (b) their organization and communication skills (written and oral).

Numerical grades will be converted to final letter grades following the Dalhousie Common Grade Scale:

A+ (90-100)	B+ (77-79)	C+ (65-69)	D	(50-54)
A (85-89)	B (73-76)	C (60-64)	F	(<50)
A- (80-84)	B- (70-72)	C- (55-59)		

Accommodations

If accommodations might help you learn course material and succeed in this course, please contact the instructor as soon as possible to discuss any barriers and how they can be overcome.

COVID-19 and respiratory illness

University policy requires mask wearing in class. Please do not come to class if you have been exposed to COVID-19 in the previous 5 days, have symptoms, or have other illnesses such as the flu or a cold. If you anticipate more than one consecutive absence, please contact the instructor to discuss ways to continue participating in the course. If the instructor is ill for more than one class, a remote learning option will be provided.

Course Policy on Missed or Late Academic Requirements

In class participation is required. Late work for assignments will not generally be accepted. If you have a medical reason or other scheduling conflict, please contact the instructor by email as soon as practical. Requests for accommodation presented after the due date will not generally be accepted except for unforeseeable emergencies.

Please do not use the Student Declaration of Absence form for late or missed requirements during the term.

Course content and preliminary schedule:

- Scientific papers will be assigned each week on a theme.
- Students will be assigned to lead the discussion of a subset of these papers. The student leading the discussion will summarize the paper with a Powerpoint presentation. The total number of presentations to be given by each student varies with enrolment and number of invited speakers.
- All students will be responsible for reading all the assigned papers and providing a concise written summary that they bring to class (including papers assigned by guest speakers), and this material is to be submitted to the instructor by the end of class.
- Students are encouraged to provide the instructor with a copy of their presentation before class to minimize potential technological issues.

SCHEDULE (not final, rescheduling may occur to accommodate guest speakers/will be kept up to date on Brightspace)

Jan. 9: Introduction to the course

Jan 16: Temporal and spatial patterns in primary production

Jan 23: The spring bloom

Jan 30: Factors controlling primary production: conditions

Feb 6: Factors controlling primary production: macronutrients

Feb 13: The Redfield Ratio

Feb 20: UNIVERSITY CLOSED - NS HERITAGE DAY & WINTER BREAK

Feb 27: Guest speaker

Mar 6: Regenerated, recycled and export production

Mar 13: The Fe hypothesis and the Fe-limitation experiments

Mar 20: Food web interactions

Mar 27: Marine zooplankton

April 3: Climate change impacts

**Faculty of Science Course Syllabus (Section B)
Fall/Winter 2022-23**

Special topics in Oceanography (Influential papers in Biological Oceanography) OCEA 5241

University Policies and Statements

This course is governed by the academic rules and regulations set forth in the University Calendar and by Senate

Academic Integrity

At Dalhousie University, we are guided in all of our work by the values of academic integrity: honesty, trust, fairness, responsibility and respect (The Center for Academic Integrity, Duke University, 1999). As a student, you are required to demonstrate these values in all of the work you do. The University provides policies and procedures that every member of the university community is required to follow to ensure academic integrity.

Information: https://www.dal.ca/dept/university_secretariat/academic-integrity.html

Accessibility

The Advising and Access Services Centre is Dalhousie's centre of expertise for student accessibility and accommodation. The advising team works with students who request accommodation as a result of a disability, religious obligation, or any barrier related to any other characteristic protected under Human Rights legislation (Canada and Nova Scotia).

Information: https://www.dal.ca/campus_life/academic-support/accessibility.html

Student Code of Conduct

Everyone at Dalhousie is expected to treat others with dignity and respect. The Code of Student Conduct allows Dalhousie to take disciplinary action if students don't follow this community expectation. When appropriate, violations of the code can be resolved in a reasonable and informal manner—perhaps through a restorative justice process. If an informal resolution can't be reached, or would be inappropriate, procedures exist for formal dispute resolution.

Code: https://www.dal.ca/dept/university_secretariat/policies/student-life/code-of-student-conduct.html

Diversity and Inclusion – Culture of Respect

Every person at Dalhousie has a right to be respected and safe. We believe inclusiveness is fundamental to education. We stand for equality. Dalhousie is strengthened in our diversity. We are a respectful and inclusive community. We are committed to being a place where everyone feels welcome and supported, which is why our Strategic Direction prioritizes fostering a culture of diversity and inclusiveness

Statement: <http://www.dal.ca/cultureofrespect.html>

Recognition of Mi'kmaq Territory

Dalhousie University would like to acknowledge that the University is on Traditional Mi'kmaq Territory. The Elders in Residence program provides students with access to First Nations elders for guidance, counsel and support. Visit or e-mail the Indigenous Student Centre (1321 Edward St) (elders@dal.ca).

Information: https://www.dal.ca/campus_life/communities/indigenous.html

Important Dates in the Academic Year (including add/drop dates)

<https://academiccalendar.dal.ca/Catalog/ViewCatalog.aspx?pageid=viewcatalog&catalogid=117&chapterid=-1&topicgroupid=31821&loaduseredits=False>

University Grading Practices

https://www.dal.ca/dept/university_secretariat/policies/academic/grading-practices-policy.html

**Faculty of Science Course Syllabus (Section C)
Fall/Winter 2022-23**

Special topics in Oceanography (Influential papers in Biological Oceanography) OCEA 5241

Student Resources and Support

Advising

General Advising https://www.dal.ca/campus_life/academic-support/advising.html

Science Program Advisors: <https://www.dal.ca/faculty/science/current-students/undergrad-students/degree-planning.html>

Indigenous Student Centre: https://www.dal.ca/campus_life/communities/indigenous.html

Black Students Advising Centre: https://www.dal.ca/campus_life/communities/black-student-advising.html

International Centre: https://www.dal.ca/campus_life/international-centre/current-students.html

Academic supports

Library: <https://libraries.dal.ca/>

Writing Centre: https://www.dal.ca/campus_life/academic-support/writing-and-study-skills.html

Studying for Success: https://www.dal.ca/campus_life/academic-support/study-skills-and-tutoring.html

Copyright Office: <https://libraries.dal.ca/services/copyright-office.html>

Fair Dealing Guidelines <https://libraries.dal.ca/services/copyright-office/fair-dealing.html>

Other supports and services

Student Health & Wellness Centre: https://www.dal.ca/campus_life/health-and-wellness.html

Student Advocacy: <https://dsu.ca/dsas>

Ombudsperson: https://www.dal.ca/campus_life/safety-respect/student-rights-and-responsibilities/where-to-get-help/ombudsperson.html

Safety

Biosafety: <https://www.dal.ca/dept/safety/programs-services/biosafety.html>

Chemical Safety: <https://www.dal.ca/dept/safety/programs-services/chemical-safety.html>

Radiation Safety: <https://www.dal.ca/dept/safety/programs-services/radiation-safety.html>

Scent-Free Program: <https://www.dal.ca/dept/safety/programs-services/occupational-safety/scent-free.html>

Dalhousie COVID-19 information and updates: <https://www.dal.ca/covid-19-information-and-updates.html>