

**Faculty of Science and Faculty of Graduate Studies Course Syllabus  
Department of Biology**

**MARI 3761.03  
Marine Ecology  
Fall 2023**

*Dalhousie University acknowledges that we are in Mi'kma'ki, the ancestral and unceded territory of the Mi'kmaq People and pays respect to the Indigenous knowledges held by the Mi'kmaq People, and to the wisdom of their Elders past and present. The Mi'kmaq People signed Peace and Friendship Treaties with the Crown, and section 35 of the Constitution Act, 1982 recognizes and affirms Aboriginal and Treaty rights. We are all Treaty people.*

*Dalhousie University also acknowledges the histories, contributions, and legacies of African Nova Scotians, who have been here for over 400 years.*

**Instructor:** Dr. Diego Ibarra | email: [Diego.Ibarra@dal.ca](mailto:Diego.Ibarra@dal.ca) | Office: LSC-3625 (Oceanography)  
**Questions MUST be posted in Brightspace's Discussion boards** (see guidelines below). Only use email for private/personal matters.

**Lectures:** Tue, Thur 8:35 - 9:55 am | *Location:* HENRY HICKS ACADEMIC ADMIN 212

**Course delivery:** In-person. However, due to the covid19 pandemic, we can switch to online teaching if needed.

**TA:** Natalie Klinard | email: [natalie.klinard@dal.ca](mailto:natalie.klinard@dal.ca)

**Time zone:** All times (syllabus, Brightspace, calendar, etc.) are in **Halifax Time (ADT/UTC-3 or AST/UTC-4)**

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### **Course Description**

Building upon an understanding of basic ecological and evolutionary principles, and a familiarity with the major marine invertebrate and algal taxa, this course examines patterns and processes at the organismal, population and community levels that determine the diversity and distribution of life in the sea.

### **Course format**

The course is intended to be delivered in-person. However, due to the covid19 pandemic, we can switch to online delivery if cases of covid19 in Halifax and/or Dalhousie increase to unsafe levels. If this is the case, a Brightspace announcement will be used to do the switch from in-person to online (or vice versa).

### **In-person**

Lectures will take place at the time and place indicated at the top of this syllabus.

The use of masks is encouraged (but not mandatory), at least for the a few weeks after the course starts, in case the influx of students from around the world trigger a wave of covid19 or another respiratory disease.

Quizzes, Midterms and Mini-Final will take place in the classroom during lecture time.

Online discussion will be the same as in the online format (see below).

### Online

If covid19 prevents us from doing in-person learning, we can switch to the following online format. The online version of this course is delivered mainly using Brightspace and zoom. You will need a laptop with a webcam and microphone (or equivalent hardware), and you will need to install (free) zoom software.

- **Synchronous Zoom lectures (required).** These will take place at the same time as the in-person lectures (see top of this syllabus). Lectures will be delivered via zoom (link in Brightspace). This is also a time to ask questions, spark discussion and interact with each other. **These synchronous events will NOT be recorded.** During these video-calls, please follow the etiquette below:
  - You are expected to have your **CAMERA ALWAYS ON** when in the zoom room, therefore:
    - Be mindful of your clothing and appearance
    - Be mindful of your background (virtual backgrounds are ok)
    - Silence your cellphone and other electronic devices
    - Advise your roommates about your video-call so they are also mindful too
  - Keep you **MICROPHONE ALWAYS MUTED**, unless you need to speak
- **Asynchronous quizzes (required)** are delivered online (via Brightspace) under an asynchronous format. Quizzes will be only available for a 24-hour period. **Please read carefully the “Daily quizzes” section below.**
- **Synchronous midterms and mini-final exams (required).** There are three required exams that must be done at specific date/times (see schedule for details).

### Course Prerequisites, Cross-listings and Restrictions

- **Prerequisites:** BIOL 2060.03 (or BIOA 3001.03), BIOL 2003.03 (or BIOL 2004.03) and OCEA 2000X/Y.06 (or OCEA 2001.03 and OCEA 2002.03)
- **Cross-listings:** BIOL 3761.03
- **Restrictions:** This course is restricted to 3rd and 4th year students

### Course Objectives/Learning Outcomes

- Contrast the physical and chemical environment in the ocean with that on land, and explain how the ocean milieu has shaped the evolution of life and the structure and functioning of marine ecosystems
- Explain the interplay of biological interactions and physical factors in determining patterns of intertidal zonation on rocky shores
- Contrast developmental strategies of marine invertebrates with larval forms, in terms of evolutionary trade-offs and biogeographic patterns
- Account for variation in patterns of larval dispersal, settlement and recruitment among benthic invertebrates, in terms of oceanographic features and biological factors
- Explain processes that determine patterns of distribution, abundance and productivity of kelp beds/forests along temperate coasts
- Explain the roles of disturbance and biological interactions (competition, grazing, predation and disease) in shaping community organization in kelp beds/forests worldwide, and the impact of invasive species on the kelp-bed ecosystem of the Northwest Atlantic
- Describe the distribution, environmental features, and trophic structure of tropical coral reefs
- Account for the high productivity and diversity of coral reefs, and their vulnerability to environmental stressors and human impacts
- Describe the physical, chemical and biological environment of the deep-sea, and explain how this accounts for patterns of species abundance and diversity
- Account for the high productivity and biomass, but low species diversity, at hydrothermal vents
- Evaluate the effects of humans, past and present, on marine species, populations and ecosystems worldwide

## Course Materials

### Textbook (optional):

- Nybakken JW and Bertness MD (2004) *Marine Biology: An Ecological Approach*. 6<sup>th</sup> Edition. Benjamin Cummings, San Francisco

**Class notes:** Class .PDF notes are posted on Brightspace. Quizzes, midterms and final are based on these notes.

**Panopto Videos:** If we need to switch to online teaching, I will post Panopto videos that students can watch if they need additional help understanding the material. Students are not required to watch these videos.

**Announcements:** Electronic announcements and additional material will be posted on Brightspace. Students should check the site frequently.

## Course Assessment

Component	Weight (% of final grade)	Date
Marine Species YouTube Video	30 in total	
- Species selection	1	See schedule below
- List of sources and media	2	See schedule below
- Script and ancillary text	5	See schedule below
- Thumbnail	1	See schedule below
- YouTube video (landscape 1920x1080p)	15	See schedule below
- Trailer video (portrait 1080x1920p)	6	See schedule below
Daily Quizzes and hand-written cheat-sheets	35	See schedule below
Midterm exam	15	See schedule below
Mini-final exam	20	See schedule below
Participation in Discussion Boards	2% bonus	Continuously
<b>TOTAL</b>	<b>/100</b>	

\* All components are individual

### Marine Species YouTube Video

Detailed instructions are provided in Brightspace in a separate document: *MAIN Video Instructions (START HERE).docx*. Also in Brightspace are many templates and how-to guides to help you make your YouTube video.

### Daily Quizzes

These quizzes are designed to test you on the material from the previous lecture (plus one question from previous quizzes). Quizzes are based on the **.PDF lecture-notes** uploaded to Brightspace. Quizzes are online (approx. 10 minutes) and are applied via Brightspace, please bring your laptop (charged) and your phone as a backup. We will use Dalhousie's software to prevent other software to run in your laptop during the exam, and to use your laptop's webcam to record your quiz session and flag any suspicious behavior.

- In person:** If in person teaching, quizzes will be done during lecture time as shown in the schedule.

- **On-line:** If we switch to online format because of covid19, each quiz will be available for 24 hours, dates are the same as if “in person” (see specific due dates in the schedule below), however the closing time will be different... at 11:59 pm. Students can answer the quiz at anytime during those 24 hours; however, there is set amount of time to answer the quiz once it is started, and there is only one attempt.

For each quiz, students are **required** to make and use a **hand-written “cheat-sheet”** for each Quiz. **A photo of the cheat-sheet must be uploaded to its corresponding Brightspace dropbox BEFORE you do the quiz.**

Cheat-sheets not meeting specifications (see below) will result in a **zero grade** in the corresponding quiz. See below for missed quizzes and corresponding penalties.

***Cheat-sheet specifications:***

- Cheat-sheets are personal. **Copying somebody else’s cheat-sheet is a serious plagiarism offence** requiring the Instructor to report all involved parties to the Academic Integrity Office.
- Cheat-sheets **MUST** be hand-written on paper. Digitization, electronic manipulation, photocopying, photographing and/or printing of cheat-sheets is not allowed.
- On your cheat-sheet, write your name, B00 number, date and Quiz number.
- Content: Anything you want, but **must** demonstrate an effort to synthesize lecture content.
- Size: each cheat-sheet is limited to one side of a letter-sized sheet of paper.
- Do one cheat-sheet per .pdf lecture. Some days we’ll go over more than one lecture during the class. For these days, make sure you upload separate cheat-sheets for each of the .pdf lectures.
- A photo of each cheat-sheet must be uploaded to its corresponding Brightspace dropbox BEFORE you do the quiz.

**Missed quizzes.** Email **the TA** (and Cc the Instructor) to schedule a make-up quiz (note that the TA is the one in-charge of scheduling the make-up quizzes and exams; thus, emailing only the instructor will delay the process). Students are allowed to miss two quizzes during the course (for any reason) without any penalty. After that, penalties will apply depending on the number of quizzes missed according to the table below. Note that the penalties apply regardless of the reason why you missed the quiz, except in the following two cases: (1) Students that enrol late can get exemptions for the quizzes missed before they enrolled to the class (up to two weeks from the start of class). (2) Students with prolonged illness (e.g., mono or head concussion) or other serious extenuating circumstances can contact the instructor to arrange for quiz exemptions; note that in these cases a Student Access Advisor from Student Affairs may need to be involved.

<b>Quiz</b>	<b>Penalty (% deduction)</b>
1 <sup>st</sup> quiz missed	0%
2 <sup>nd</sup> quiz missed	0%
3 <sup>rd</sup> quiz missed	-5%
4 <sup>th</sup> quiz missed	-10%
5 <sup>th</sup> quiz missed	-20%
6 <sup>th</sup> quiz missed	-40%
7 <sup>th</sup> quiz missed	-60%
8 <sup>th</sup> quiz missed	-80%
9 <sup>th</sup> quiz missed	-90%
10 <sup>th</sup> quiz missed and beyond	-100% (i.e., you are not allowed to take the quiz)

### Midterms and Mini-final exams

Similar to the Daily Quizzes, midterms and mini-final exams are also online via Brightspace, please bring your laptop (charged) and your phone as a backup. Dalhousie's software will be used to prevent other software from running in your laptop during the exam, and to use your laptop's webcam to record your quiz session and flag any suspicious behavior. Unlike Daily Quizzes, **it is NOT allowed to bring cheat-sheets to the Midterm and the Mini Final exams.** These exams will be synchronous. Date/times are shown in the schedule below.

The format for these exams is multiple choice and/or short answers. The exams will include material from the lectures, quizzes, and discussion boards. Midterm 1 will include content from the beginning of the course and up to the material covered on the week of the Midterm 1 exam. Midterm 2 will include content covered **after** Midterm 1 and up to the material covered on the week of the Midterm 2 exam. The Final Exam will include all the material included in the course.

*Missed midterm and mini-final exams:* In extenuating circumstances, a make up exam may be scheduled for students that cannot take the exam at the normal date/time (note: heavy course load and travel are not normally considered extenuating circumstances). Email **the TA** (and Cc the Instructor) to schedule a make-up exam (note that the TA is the one in-charge of scheduling the make-up quizzes and exams; thus, emailing only the instructor will delay the process). Please arrange for a make-up exam as soon as you know that you will not be able to do the exam at the normal time.

### Participation in Discussion Boards

You are expected to contribute to the discussion boards (questions **AND ANSWERS**). Please follow the posting guidelines below:

- Before you post your question, **CHECK** if the question has already been asked/answered
- Post only ONE question per post. If you have multiple questions, post them in separate posts
- The post's TITLE should be your question
- If you know the answer to a question, please help by answering the post
- Be respectful and polite

Participation grades will be computed at the end of the course. First, *engagement points* (see below) will be tallied for each student. Then, a curve will be calculated (after removing outliers) to compute the participation bonus points for each student.

Item	Score (units: engagement points)
New question	1
Already posted question	0 for the first 3 events, -1 for additional events
Correct answer	1
Partially correct answer	0.5
Incorrect answer	0 for the first 3 events, -1 for additional events
Useful comment or sharing a link to a useful resource	1
Using offensive tone or language	-1

### Conversion of numerical grades to Final Letter Grades

Undergraduate students follow the Dalhousie Common Grade Scale. Graduate students follow a stricter scale, where a minimum of 70% (B-) is required to pass.

<b>%</b>	<b>Letter Grade</b>	<b>Grade Point Value</b>	<b>Definition</b>
90 - 100	<b>A+</b>	4.30	Exceptional
85-89	<b>A</b>	4.00	Excellent
80-84	<b>A-</b>	3.70	Very Good
77-79	<b>B+</b>	3.30	Good
73-76	<b>B</b>	3.00	
70-72	<b>B-</b>	2.70	
65-69	<b>C+</b>	2.30	Satisfactory
60-64	<b>C</b>	2.00	
55-59	<b>C-</b>	1.70	
50-54	<b>D</b>	1.00	Marginal Pass
<50	<b>F</b>	0.00	Failure

## Course Policies

**Questions.** All questions **MUST** be posted in Brightspace's Discussion boards (see posting guidelines above). Only use email for private/personal matters.

**Missing or late academic requirements.** If you qualify for a quiz exemption or a make up exam (see policies in Course Assessment section above), please:

- Email **both**, the TA and the Instructor, briefly explaining your circumstance and dates.
- Fill in a Student Declaration of Absence (SDA) form and upload it to the Brightspace Dropbox designated for SDAs.
- Students with an Accessibility or Accommodation Plan in place **do not** need to submit SDA form.
- For extenuating circumstances (e.g. prolonged illness, family matters, etc.) contact the instructor.

**Brightspace** will be used to post lectures, updates and announcements.

**Late assignments:** A 10% reduction in grade will be applied for every day an assignment is late.

**Assignment submission:** Assignments should be submitted via Brightspace as .pdf file by 11:30 pm on the due date.

## Course Content

### Detailed Schedule

All dates and times are in **Halifax Time** (ADT/UTC-3 or AST/UTC-4). Note that quizzes, exams and other due dates are shown in **red**.

Week	Date	Content
<b>Class Introduction</b>		
1	Tue, Sep 5 @ 8:30 am	Lecture
	Tue, Sep 5 @ 11:59 pm	Submit "Species selection" see MAIN Video Instruction file for details
	Wed, Sep 6 @ 11:59 pm	Submit "List of sources and media" see MAIN Video Instruction file for details
	Thu, Sep 7 @ 8:30 am	Lecture
	Sun, Sep 10 @ 11:59 pm	Submit "Script and ancillary text" see MAIN Video Instruction file for details
<b>Making a marine species documentary</b>		
2	Tue, Sep 12 @ 8:30 am	Lecture
	Wed, Sep 13 @ night	Render your in-progress "YouTube video". If you have problems rendering, you need to know now, so we can troubleshoot the next day in class. see MAIN Video Instruction file for details
	Thu, Sep 14 @ 8:30 am	Lecture
	Thu, Sep 14 @ 11:59 pm	Submit "YouTube video" see MAIN Video Instruction file for details
	Thu, Sep 14 @ 11:59 pm	Submit "Thumbnail" see MAIN Video Instruction file for details
	Sun, Sep 17 @ 11:59 pm	Submit "Trailer video" see MAIN Video Instruction file for details
<b>Module 1. Life on land and in the sea: Worlds of contrast</b>		
3	Tue, Sep 19 @ 8:30 am	Lecture
	Thu, Sep 21 @ 8:30 am	Quiz: (and photo of cheat-sheet)
	Thu, Sep 21 @ 8:30 am	Lecture
<b>Module 2. The rocky intertidal zone: A test bed for ecological theory</b>		
4	Tue, Sep 26 @ 8:30 am	Quiz: (and photo of cheat-sheet)
	Tue, Sep 26 @ 8:30 am	Lecture
	Thu, Sep 28 @ 8:30 am	Quiz: (and photo of cheat-sheet)
	Thu, Sep 28 @ 8:30 am	Lecture
<b>Module 3. Reproduction, larval ecology, &amp; recruitment</b>		
5	Tue, Oct 3 @ 8:30 am	Quiz: (and photo of cheat-sheet)
	Tue, Oct 3 @ 8:30 am	Lecture
	Thu, Oct 5 @ 8:30 am	Quiz: (and photo of cheat-sheet)
	Thu, Oct 5 @ 8:30 am	Lecture
<b>Module 4. The rocky subtidal zone: A hot bed of biological interactions</b>		
6	Tue, Oct 10 @ 8:30 am	Quiz: (and photo of cheat-sheet)
	Tue, Oct 10 @ 8:30 am	Lecture
	Thu, Oct 12 @ 8:30 am	Quiz: (and photo of cheat-sheet)
	Thu, Oct 12 @ 8:30 am	Lecture
<b>Module 5. Tropical coral reefs: Oases in a desert ocean</b>		
7	Tue, Oct 17 @ 8:30 am	Quiz: (and photo of cheat-sheet)
	Tue, Oct 17 @ 8:30 am	Lecture
	Thu, Oct 19 @ 8:30 am	Midterm
<b>Module 6. The deep: Mountains, plains &amp; hot springs</b>		
8	Tue, Oct 24 @ 8:30 am	Lecture
	Thu, Oct 26 @ 8:30 am	Quiz: (and photo of cheat-sheet)
	Thu, Oct 26 @ 8:30 am	Lecture
<b>Module 7. Salt-marshes, mangroves and sea grass meadows</b>		
9	Thu, Oct 31 @ 8:30 am	Quiz: (and photo of cheat-sheet)

	Tue, Oct 31 @ 8:30 am	Lecture
	Thu, Nov 2 @ 8:30 am	Quiz: (and photo of cheat-sheet)
	Thu, Nov 2 @ 8:30 am	Lecture
<b>Module 8. Continental shelf and Soft sediments</b>		
10	Tue, Nov 7 @ 8:30 am	Quiz: (and photo of cheat-sheet)
	Tue, Nov 7 @ 8:30 am	Lecture
	Thu, Nov 9 @ 8:30 am	Quiz: (and photo of cheat-sheet)
	Thu, Nov 9 @ 8:30 am	Lecture
11	Mon, Nov 13...	Reading week
	...Fri, Nov 17	Reading week
<b>Module 9. The edge of the continental shelf and underwater canyons</b>		
12	Tue, Nov 21 @ 8:30 am	Quiz: (and photo of cheat-sheet)
	Tue, Nov 21 @ 8:30 am	Lecture
	Thu, Nov 23 @ 8:30 am	Quiz: (and photo of cheat-sheet)
	Thu, Nov 23 @ 8:30 am	Lecture
<b>Module 10. The open ocean and polar ecology</b>		
13	Tue, Nov 28 @ 8:30 am	Quiz: (and photo of cheat-sheet)
	Tue, Nov 28 @ 8:30 am	Lecture
	Thu, Nov 30 @ 8:30 am	Mini-final

*NOTE: Dates and topics may change depending on course pace and weather-related class cancellations.*

## University Policies and Statements

### **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 at 1321 Edward St or [elders@dal.ca](mailto:elders@dal.ca). Additional information regarding the Indigenous Student Centre can be found at: [https://www.dal.ca/campus\\_life/communities/indigenous.html](https://www.dal.ca/campus_life/communities/indigenous.html)

### **Internationalization**

At Dalhousie, 'thinking and acting globally' enhances the quality and impact of education, supporting learning that is "interdisciplinary, cross-cultural, global in reach, and orientated toward solving problems that extend across national borders." Additional internationalization information can be found at: <https://www.dal.ca/about-dal/internationalization.html>

### **Academic Integrity**

At Dalhousie University, we are guided in all our work by the values of academic integrity: honesty, trust, fairness, responsibility, and respect. As a student, you are required to demonstrate these values in all 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. Additional academic integrity information can be found at: [https://www.dal.ca/dept/university\\_secretariat/academic-integrity.html](https://www.dal.ca/dept/university_secretariat/academic-integrity.html)

### **Accessibility**

The Student Accessibility Centre is Dalhousie's centre of expertise for matters related to student accessibility and accommodation. If there are aspects of the design, instruction, and/or experiences within this course (online or in-person) that result in barriers to your inclusion, please contact the Student Accessibility Centre ([https://www.dal.ca/campus\\_life/academic-support/accessibility.html](https://www.dal.ca/campus_life/academic-support/accessibility.html)) for all courses offered by Dalhousie with the exception of Truro. For courses offered by the Faculty of Agriculture, please contact the Student Success Centre in Truro (<https://www.dal.ca/about-dal/agricultural-campus/student-success-centre.html>)

### **Conduct in the Classroom – Culture of Respect**

Substantial and constructive dialogue on challenging issues is an important part of academic inquiry and exchange. It requires willingness to listen and tolerance of opposing points of view. Consideration of individual differences and alternative viewpoints is required of all class members, towards each other, towards instructors, and towards guest speakers. While expressions of differing perspectives are welcome and encouraged, the words and language used should remain within acceptable bounds of civility and respect.

### **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 (Strategic Priority 5.2). Additional diversity and inclusion information can be found at: <http://www.dal.ca/cultureofrespect.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. The full Code of Student Conduct can be found at: [https://www.dal.ca/dept/university\\_secretariat/policies/student-life/code-of-student-conduct.html](https://www.dal.ca/dept/university_secretariat/policies/student-life/code-of-student-conduct.html)

### **Fair Dealing Policy**

The Dalhousie University Fair Dealing Policy provides guidance for the limited use of copyright protected material without the risk of infringement and without having to seek the permission of copyright owners. It is intended to provide a balance between the rights of creators and the rights of users at Dalhousie. Additional information regarding the Fair Dealing Policy can be found at: [https://www.dal.ca/dept/university\\_secretariat/policies/academic/fair-dealing-policy-.html](https://www.dal.ca/dept/university_secretariat/policies/academic/fair-dealing-policy-.html)

### **Originality Checking Software**

The course instructor may use Dalhousie's approved originality checking software and Google to check the originality of any work submitted for credit, in accordance with the Student Submission of Assignments and Use of Originality Checking Software Policy. Students are free, without penalty of grade, to choose an alternative method of attesting to the authenticity of their work and must inform the instructor no later than the last day to add/drop classes of their intent to choose an alternate method. Additional information regarding Originality Checking Software can be found at: [https://www.dal.ca/dept/university\\_secretariat/policies/academic/student-submission-of-assignments-and-use-of-originality-checking-software-policy-.html](https://www.dal.ca/dept/university_secretariat/policies/academic/student-submission-of-assignments-and-use-of-originality-checking-software-policy-.html)

### **Student Use of Course Materials**

Course materials are designed for use as part of this course at Dalhousie University and are the property of the instructor unless otherwise stated. Third party copyrighted materials (such as books, journal articles, music, videos, etc.) have either been licensed for use in this course or fall under an exception or limitation in Canadian Copyright law. Copying this course material for distribution (e.g. uploading to a commercial third-party website) may lead to a violation of Copyright law.

# Student Resources and Support

## University Policies and Programs

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

[http://www.dal.ca/academics/important\\_dates.html](http://www.dal.ca/academics/important_dates.html)

Classroom Recording Protocol:

[https://www.dal.ca/dept/university\\_secretariat/policies/academic/classroom-recording-protocol.html](https://www.dal.ca/dept/university_secretariat/policies/academic/classroom-recording-protocol.html)

Dalhousie Grading Practices Policies:

[https://www.dal.ca/dept/university\\_secretariat/policies/academic/grading-practices-policy.html](https://www.dal.ca/dept/university_secretariat/policies/academic/grading-practices-policy.html)

Grade Appeal Process: [https://www.dal.ca/campus\\_life/academic-support/grades-and-student-records/appealing-a-grade.html](https://www.dal.ca/campus_life/academic-support/grades-and-student-records/appealing-a-grade.html)

Sexualized Violence Policy: [https://www.dal.ca/dept/university\\_secretariat/policies/health-and-safety/sexualized-violence-policy.html](https://www.dal.ca/dept/university_secretariat/policies/health-and-safety/sexualized-violence-policy.html)

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

## Learning and Support Resources

General Academic Support – Advising (Halifax): [https://www.dal.ca/campus\\_life/academic-support/advising.html](https://www.dal.ca/campus_life/academic-support/advising.html)

General Academic Support – Advising (Truro): <https://www.dal.ca/about-dal/agricultural-campus/ssc/academic-support/advising.html>

Student Health & Wellness Centre: [https://www.dal.ca/campus\\_life/health-and-wellness.html](https://www.dal.ca/campus_life/health-and-wellness.html)

On Track (helps you transition into university, and supports you through your first year at Dalhousie and beyond): [https://www.dal.ca/campus\\_life/academic-support/On-track.html](https://www.dal.ca/campus_life/academic-support/On-track.html)

Indigenous Student Centre: [https://www.dal.ca/campus\\_life/communities/indigenous.html](https://www.dal.ca/campus_life/communities/indigenous.html)

Indigenous Connection: <https://www.dal.ca/about-dal/indigenous-connection.html>

Elders-in-Residence (The Elders in Residence program provides students with access to First Nations elders for guidance, counsel, and support. Visit the office in the Indigenous Student Centre or contact the program at [elders@dal.ca](mailto:elders@dal.ca) or 902-494-6803:

<https://cdn.dal.ca/content/dam/dalhousie/pdf/academics/UG/indigenous-studies/Elder-Protocol-July2018.pdf>

Black Student Advising Centre: [https://www.dal.ca/campus\\_life/communities/black-student-advising.html](https://www.dal.ca/campus_life/communities/black-student-advising.html)

International Centre: [https://www.dal.ca/campus\\_life/international-centre.html](https://www.dal.ca/campus_life/international-centre.html)

South House Sexual and Gender Resource Centre: <https://southhousehalifax.ca/about/>

LGBTQ2SIA+ Collaborative: <https://www.dal.ca/dept/vpei/edia/education/community-specific-spaces/LGBTQ2SIA-collaborative.html>

Dalhousie Libraries: <http://libraries.dal.ca/>

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

Dalhousie Student Advocacy Services: <https://www.dsu.ca/dsas?rq=student%20advocacy>

Dalhousie Ombudsperson: [https://www.dal.ca/campus\\_life/safety-respect/student-rights-and-responsibilities/where-to-get-help/ombudsperson.html](https://www.dal.ca/campus_life/safety-respect/student-rights-and-responsibilities/where-to-get-help/ombudsperson.html)

Human Rights and Equity Services: <https://www.dal.ca/dept/hres.html>

Writing Centre: [https://www.dal.ca/campus\\_life/academic-support/writing-and-study-skills.html](https://www.dal.ca/campus_life/academic-support/writing-and-study-skills.html)

Study Skills/Tutoring: [http://www.dal.ca/campus\\_life/academic-support/study-skills-and-tutoring.html](http://www.dal.ca/campus_life/academic-support/study-skills-and-tutoring.html)

Faculty of Science Advising Support: <https://www.dal.ca/faculty/science/current-students/undergrad-students/degree-planning.html>

## **Safety**

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

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

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

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