





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.

### What does this mean for BIOL 2040 Evolution?

We are incredibly privileged to be learning on the land that was Traditional Mi'kmaq Territory. Although the Mi'kmaq signed Treaties with the British Colonists, they never gave up their land. We are guests and settlers on their land, and we need to learn and understand their struggles and experiences over the past hundreds of years. In BIOL 2040, we hope to highlight research achievements and discoveries of underrepresented scientists in this field throughout the course, and we encourage you to do

Name	Email	Student Support* Hours
LECTURES: Dr. Robert Latta (he/him)	robert.latta@dal.ca	By appointment; LSC 4056
LABS: Dr. Jen Frail- Gauthier (she/her)	jfrail@dal.ca	Mondays 1-2 PM (may be virtual, or in- person); LSC 4015

# Course Instructor(s)

\*Student Support Hours (also known as Office Hours) = these are when the instructors are available to talk with you about course material or other course-related concerns/questions you may have.

**Communication Disclaimer:** Lecture-content related questions should be directed to Dr. Latta. Lab and assignment questions should be directed to Dr. Frail-Gauthier, however, questions about the assignments are best asked on Bright Space discussion boards. Use email only for personal questions/concerns (e.g., absences, extensions). **Jen responds to emails** frequently but is delayed on emails that come in on evenings and weekends, as work-life balance is important. **Bob usually responds to emails within 24 hours.** 



### **Course Description**

A thorough overview of the process of evolution. Genetic variation and changes in genetic composition of populations, the relationship between genetic and phenotypic change. Adaptation at various levels of organization (DNA to species), speciation, phylogeny, and macroevolutionary patterns. Introduces the full breadth of evolutionary concepts, preparatory to more advanced courses.

### **Course Prerequisites**

A grade of C or higher in BIOL 1010.03 or BIOL 1020.03 or BIOL 1031.03 or BIOA 1002.03 and BIOA 1003.03, or SCIE 1506.09 and SCIE 1507.09, or equivalent. **Recommended:** SCIE 1111.03 Writing for the Sciences

### **Student Resources**

The Evolution Team supports an **open**, **respectful**, and **safe** learning environment, for all students. We want you to feel like **you belong** and are welcome in this learning space. We understand that not all disabilities are visible. No matter how you gender identify, what your background is, and who you love -- Everyone Is Welcome Here.

We encourage diversity, equity, accessibility, respect, and inclusion and we will not tolerate hate, harassment, or discrimination.

**Need help with course content**? In addition to student support hours (listed on page 1), asking questions during the lecture and/or the lab, and posting questions on the Brightspace Discussion Boards, you can get BIOL 2040-specific help via extra resources uploaded to the Brightspace page (e.g., Allele A1 simulator). During the semester, the Dalhousie Association of Biology Students (DABS) has a Concept Room where upper-year students volunteer to provide help with course materials (schedule TBA). Also check out academic support with Studying for Success (including their tutoring program, at https://www.dal.ca/campus\_life/academic-support/study-skills-and-tutoring.html).

**Need support for YOU**? Second-year can be quite demanding, and may be unlike your experience in first year (academically, and personally). There are many resources available to you at Dalhousie, through student health and wellness, accessibility, and many resource and student centres (e.g., Black Student Advising, Human Rights and Equity). The links for these resources are at the end of this syllabus. Note that Jen is double-certified in mental health first aid and is a safe space ally in the Biology Department

(https://www.dal.ca/faculty/science/biology/safe-space.html). You can ALWAYS reach out to me - no concern is too trivial.



# **Course Structure**

### **Course Delivery**

All lectures, labs, tests will be delivered <u>in person</u> (face to face). Although there are no longer public health protocols, the one big thing we've learned during the pandemic is that if you are <u>experiencing symptoms of COVID-19 or flu</u>, please stay home. To accommodate any students who may need to miss class due to illness, lecture recordings will be posted on Brightspace. Note, however, that the recordings present both **a resource and a risk**.

They are a **resource** in that they allow you to:

- catch up on missed material, or also to
- review material that you may have found challenging while attending the (in person) lecture.

The **risks** are twofold:

- The videos are somewhat out-of-date, in that they were recorded three years ago at the outset of the pandemic. They have not been updated the way that the in-person lectures have been. Exam questions will be based on the material as presented inperson.
- The videos also present a **temptation to procrastinate**. If you miss lecture, it is important to catch up with by watching the lecture video as soon as possible. Evolution is not a subject that can be studied by binge-watching videos at the end of semester, and students who have tried this in past semesters have **struggled** on the midterm and final.

Therefore, please note that such recordings should be viewed as <u>a backup to class</u> <u>attendance rather than a substitute</u>, and students who are not sick should make every effort to attend class.

If you need to stay home in a **lab time**, please contact Jen to see your available accommodations.

### Lectures

Tuesdays and Thursdays, 8:35 AM- 9:55 AM, Sir James DUNN Building, Rm 117

### Laboratories

2 hours per week, LSC Room 4012. Labs occur the following days and times:

B01	Tuesday	1135 - 1335	B03	Wednesday	1235- 1425	B05	Thursday	1235 - 1435
B02	Tuesday	1435- 1625	B04	Wednesday	1535- 1725	B06	Thursday	1535- 1725



# **Course Materials**

NOTE: We understand that textbooks are expensive. There are also copies of the textbooks for you to borrow for a short period of time on reserve in the Killam Library. Jen will also have copies available in the lab (in-lab only – no signing out).

1) Herron J, Freeman S. 2014. Evolutionary Analysis. 5<sup>th</sup> ed. Glenview (IL): Pearson Education. 850 p. NOTE: This can be rented (reduced price compared to hardcover book) through the Brightspace page (through Willo)

**2)** Knisely, K. 2021. A Student Handbook for Writing in Biology. 6<sup>th</sup> ed. Sunderland (MA): Sinauer Associates. 288 p. (NOTE; this is also recommended for other Biology courses; 5ed is fine to use, too!).

**3) Electronic** (Brightspace): Here we will post the lecture slides and videos, along with the lab activities, pre-lab materials, and assignments. It is recommended that you bring your laptop to the labs!

4) A device that can access the internet in lab (your laptop or your phone) to be able to participate in the weekly pre-lab Kahoot quizzes. The Kahoot app is not required.

Lab coats are **not** required for BIOL 2040 labs. It is recommended you wear closed-toes shoes to labs (not because of any chemicals, but because the chair wheels love to stub toes).

## Assessment

The marks will be assigned as follows:

Assessment	Value	Date
Midterm	25 %	in class Thursday February 29 (80-min max)
Labs	35 %	throughout the term; see schedule for due dates
	(2% l	Evolution Reflection; 12% The Fly Lab; 21%* Lab Assignments)
Final Evam	10%	3 hours during final examperiod (cumulative, but weighter

Final Exam 40 % 3 hours, during final exam period (cumulative, but weighted more to post-midterm)

### Other course requirements

There are no pre-lab quizzes or pre-lab assignments. The Kahoot quizzes in lab are for practicing concepts/reviewing lecture information, as well as for addressing some FAQs and common issues with that day's lab and the accompanying assignment.

\*Content Labs 2 through 6 are all equally weighted to 4.2%, however, we will adjust the % of the lowest-lab 2-through-6 grade and re-weight it to the rest at the end of the semester if you did poorly on one of these labs!



**Note:** When you submit assignments, please follow the Assignment Guidelines document for that lab, use the Template Document to fill out your questions, and look at the Rubric on Brightspace to see where your points designations will be for that assignment. For example, if a question is worth 5 pts out of 20, chances are, more than 1 sentence is needed! Please use critical thinking to make sure you have addressed the questions concisely and completely in your answers.

Conversion of numerical grades to final letter grades follows the

	Datio	usie uraue Scale	
A+ (90-100)	B+ (77-79)	C+ (65-69)	D (50-54)
A (85-89)	B (73-76)	C (60-64)	F (0-49)
A- (80-84)	B- (70-72)	C- (55-59)	

# **Course Policies on Missed or Late Academic Requirements**

**The midterm exam** will be held in-person during the lecture time Thursday February 29<sup>th</sup>. If you cannot write the midterm at the scheduled date, you must notify Professor Latta before the time of the midterm exam that clearly explains your absence. Doctor's notes and SDA's are **not required** for BIOL 2040. Permission to write a makeup midterm exam is at the <u>discretion of the professor</u>. If no makeup midterm is permitted, the final will be weighted to 65%.

**The final exam** will be held during the formal exam period scheduled by the registrar. Students are expected to be available throughout the final exam period. If you cannot write the final exam at the scheduled date, you must notify Professor Latta on or before the day of the exam and be <u>prepared</u> to provide official documentation that clearly explains your absence within three (3) calendar days. Again, Doctor's Notes and SDA's are **not required**. You can look at the exam schedule and/or policies about final exams at dal.ca/exams.

**Note**: Because the midterm is scheduled for our regular class time, and the final exam is scheduled in the formal exam period, you are expected to be available for both of these exams. Any "makeup" that may be offered is at the discretion of the instructor, and is intended only as an accommodation for those who are truly unable to attend on the day of the exam, for example due to illness. The makeup is not an "alternative" that one may opt for out of scheduling convenience.

**Laboratory attendance is mandatory.** An <u>unexcused</u> lab absence means you may receive a deduction on the following assignment submission. An <u>unexcused</u> fly-transfer lab absence will result in a deduction on the final parts of the fly report. Accommodations will be made for students who need to miss an in-person lab due to illness or extenuating circumstances.

If you must miss a lab due to illness, religious observance, family emergency (etc.):

- Contact Jen prior to your regular laboratory time.
- Check the lab schedule and plan to attend another lab time that week (unless excused by Jen).
- You are still responsible for the lab assignment submission at the usual time.



• In fairness for all students in the course - a busy academic workload is not a valid excuse for an assignment extension for individual students (but see below for Freebie Extensions).

#### **Freebie Assignments Extensions**

EVERYONE gets 2 "life happens" extensions to use at your discretion - you do NOT need to email Jen and ask to use one, and you will not receive any late deductions! We will keep track of your freebie redemptions. All late assignments must be submitted by the following Sunday night, as the Demonstrators will grade/publish feedback the next

# Some Lab and Assignment FAQs!

### When are the lab assignments due?

Before the start of your regular lab time. Check the schedule for due dates. We do NOT use Student Declarations of Absences in BIOL 2040 – you must contact Jen. Because the due date is different for each lab, there are no calendar reminders of deadlines on Brightspace – it is your responsibility to know that lab assignments are due before your scheduled lab.

### Should I use a template for the assignments?

Yes. There will be a word document template posted on the course Brightspace site under the LABS content folder. It will include the questions and any tables, so all you need to do is fill in your answers, properly format, save your file and submit the completed assignment (as a pdf) to the appropriate Dropbox on Brightspace.

### In what type of file should lab assignments be submitted?

Save the template with your completed answers **as a pdf** for submission to Brightspace. We have found that this works best. If you use another format you may be asked to resubmit your assignment before grades are recorded. Make sure you do not submit as a .pages document, as it is unreadable on PCs.

### How do I know if my assignment was submitted correctly?

Check that you get a confirmation email from Brightspace *and* check your submitted file before assuming your assignment was submitted correctly. You can submit multiple copies, but only the most recent version will be kept.

### Can I still hand in an assignment after the due date and time?

Yes, late assignments will be accepted but there are consequences. **Remember, you have two freebie extensions** until the following Sunday night. After the two freebies, there is a penalty of **10% per day** including weekends. Before midnight the same day it was due is - 5%. Be mindful that, although Jen is understanding for if you need assignment extensions, you have assignments most weeks, and it's an important time management skill to not fall too far behind, in all your courses. We aim to complete grading before the following week's lab, hence why late assignments must be submitted by Sunday night.



### I have most of my assignment finished but just have one question left. Can I submit what I have completed and just incur a late deduction on the late section?

No, late deductions are based on the total value of the assignment. You may want to compare the points value of the uncompleted question(s) and the value of the late deduction when choosing what to do.

### Can I e-mail my assignment for grading?

No. Submit the assignment to the course Brightspace site, as follow a detailed grading rubric on the assignment (which is where you will receive feedback). **If you are having computer issues**, you can email the assignment to Jen to show that you completed it on time, but you will need to upload it to Brightspace as soon as you are able.

### Can I skip a fly transfer lab?

No. Attendance is mandatory at all labs *including* transfer labs at your scheduled lab time. An **unexcused** absence in a transfer lab will result in a 10% deduction off your final fly report, and **unexcused** absences in normal labs will result in a deduction on the submitted assignment.





# **Course Policies related to Academic Integrity (IMPORTANT!!)**

Do NOT COPY or SHARE answers to any questions submitted for marks. Unfortunately, Academic Integrity Offenses happen every semester. The Urkund software used in BIOL 2040 is good at detecting similarities– even paraphrasing! Therefore, your answers and **ideas** must be your own. Submitting your own work also includes your own critical thinking, analysis, and synthesis of ideas.

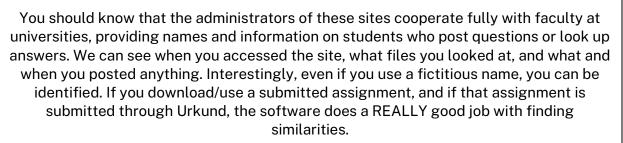
### Therefore, Large Language Models and AI (e.g., ChatGPT) are not permitted.

Honesty in BIOL 2040 Evolution and at Dalhousie University is highly valued. It is expected that students submit their own intellectual work to be assessed.



### Thinking of using StuDocu, Course Hero or any other similar site?

### Think again!



The penalty? This depends on the severity of the offense and if it's your first offense or not. If there is evidence for a case to go forward to the Academic Integrity Office, you will be contacted by email explaining the offense, and asked to have a meeting with an Academic Integrity Officer and the course instructor. If found guilty of an academic offense, penalties may include things like: a zero for the assignment (or parts of it), requiring to take an academic integrity module from the Writing Centre, and possibly (especially if not your first offense) a notation on your transcript.

# Some Academic Integrity FAQs!

### Since we work in groups, can we hand in the same assignments?

No. You are encouraged to collaborate on data collection or broad general concepts with fellow students especially during the lab time. However, you must produce **independent reports** written in **your own words** that are submitted for grading.

### Another student asks to see what I have written on an assignment. Should I give them my assignment to look at?

Absolutely not. If that student intentionally or unintentionally copies your work, your name will go to the Academic Integrity Officer for the Faculty of Science and you can be found guilty of an academic offence. You may receive the same consequences as the person who copied your work.

**The better option** - give some general ideas on how to answer a question or send them along to the Demonstrators or Jen in the lab, attend Jen's weekly Student Hours, or ask lots of questions in the Brightspace discussion board!

### If, after I have completed this course, a student asks to use my assignments should I pass them along?

No. If that student copies your work and submits it as their own, your name also goes to the Academic Integrity Officer with a charge of an academic offense. You can be found guilty and face the same consequences as the person who copied your work. (This has happened recently!)

What if someone obtains my assignments and uses them?



You are responsible to keep your work safe.

### What is Urkund?

This is a software program that Dalhousie University has adopted to detect for originality of written work. Be very careful with your answers on assignments. Some assignments will be submitted into Urkund when you submit them on Brightspace.

# **Learning Objectives**

What is expected of students coming into the course, and course student learning outcomes, can be found at this link: <a href="https://biology.academics.cs.dal.ca/daedalus/manage/course/BIOL/2040">https://biology.academics.cs.dal.ca/daedalus/manage/course/BIOL/2040</a>

# See lecture and lab schedule on the next page!





# Tentative Course Content and Schedule (with tests and assignments)

Date	Lecture	Read	Assignment Due before your lab time	Laboratory		
Jan. 8 - 12	L1 Intro. /Overview L2 Evidence for evolution	Ch 1 Ch. 2		No Labs this week		
Jan. 15 - 19	L3 Mutation L4 Selection	Ch. 5 Ch. 6		Evolution Intro Lab! Lab 1(a): Fly lab Practice		
Jan. 22 - 26	L5 Genetic Drift L6 Migration	Ch. 7 Ch. 7	<b>Fly Lab:</b> Materials & Methods (2%)	<b>Lab 2:</b> The Marble Lab (Population Genetics)		
	Monday	January	<b>22<sup>nd</sup> –</b> add/drop date			
Jan. 29 – Feb. 1 (Feb 2 = Munro Day)	L7 Phylogeny L8 Phylogeny	Ch. 4	<b>Marble Lab</b> Assignment (4.2%)	<b>Lab 1(b):</b> F0 Fly Cultures set- up		
<b>Tuesday February 6<sup>th</sup></b> –last day to drop fall term courses without a "W"						
Feb. 5 - 9	L9 Molecular Evolution L10 Adaptation	Ch. 8 Ch. 10	<b>Fly Lab:</b> Introduction Assessment (3%)	<b>Lab 3:</b> The Phylogeny Lab (Fly lab: remove adults)		
Feb. 12 - 16	L11 Trade-offs L12 Kin/Sexual Selection	Ch. 11- 13	<b>Phylogeny</b> Assignment (4.2%)	<b>Fly Lab</b> : 1 <sup>st</sup> Transfer (F1)		
Feb. 19 - 23	Winter Study Break ~ no classes		the-News/ Evolution-	<b>no labs</b> (Fly Lab: remove adults – someone from group comes in during reading week)		
Feb. 26 – Mar. 1	L13 Quantitative Genetics L14 MIDTERM EXAM	Ch. 9	No assignments due!	<b>Fly Lab</b> : 2 <sup>nd</sup> Transfer (F2)		
Wednesday March 6 <sup>th</sup> – last day to drop fall term courses with a "W"						
Mar. 4 - 8	L15 Quantitative Genetics L16 Speciation	Ch. 9 Ch. 16	No assignments due!	<b>Lab 4:</b> DNA Sequences Lab (Fly Lab: remove adults)		
Mar. 11 - 15	L17 Speciation L18 Speciation	Ch. 16	<b>DNA Sequences</b> Assignment (4.2%)	<b>Fly Lab:</b> F3 Final Counts <b>Lab 5</b> : Beetle Lab		
Mar. 18 - 22	L19 Origins Novel Traits L20 Evolution and Dev't	Ch. 19	<b>Beetle Lab</b> Assignment (4.2%)	Lab 6: Duck Lab; final fly report instructions		
Mar. 25 – 28 (Mar. 29 closed)	L21 The Fossil Record L22 Extinction	Ch. 19	<b>Duck Lab</b> Assignment (4.2%)	<b>No SCHEDULED labs</b> – though labs could be "bumped" due to storm days.		



April 11 – 23 Dalhousie University Exam Period				
Apr. 8-9 <b>NO</b> CLASSES	No lectures (Friday classes held)	Ch. 18	Fly Lab: Abstract, Results, Discussion (7%) due for everyone April 8 <sup>th</sup>	
Apr. 1 - 5	L23 Adaptive Radiation L24 Summary/Catch-Up	Ch. 18	(work on/finish fly lab!) #TimeManagement	



# **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 <u>elders@dal.ca</u>. Additional information regarding the Indigenous Student Centre can be found at: <u>https://www.dal.ca/campus\_life/communities/indigenous.html</u>

# 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: <u>https://www.dal.ca/dept/university\_secretariat/academic-integrity.html</u>

# 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 (<u>https://www.dal.ca/campus\_life/academic-support/accessibility.html</u>) 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 (<u>https://www.dal.ca/about-dal/agricultural-campus/student-success-centre.html</u>)



# **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: <a href="http://www.dal.ca/cultureofrespect.html">http://www.dal.ca/cultureofrespect.html</a>

# **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-ofstudent-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

# **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:

<u>https://www.dal.ca/dept/university\_secretariat/policies/academic/student-</u> 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.

Faculty of Science

# Student Resources and Support

## **University Policies and Programs**

Important Dates in the Academic Year (including add/drop dates): <a href="http://www.dal.ca/academics/important\_dates.html">http://www.dal.ca/academics/important\_dates.html</a>

Classroom Recording Protocol: <u>https://www.dal.ca/dept/university\_secretariat/policies/academic/classroom-</u> recording-protocol.html



**Dalhousie Grading Practices Policies:** 

https://www.dal.ca/dept/university\_secretariat/policies/academic/gradingpractices-policy.html

Grade Appeal Process: <u>https://www.dal.ca/campus\_life/academic-support/grades-and-student-records/appealing-a-grade.html</u>

Sexualized Violence Policy: https://www.dal.ca/dept/university\_secretariat/policies/health-andsafety/sexualized-violence-policy.html

Scent-Free Program: <u>https://www.dal.ca/dept/safety/programs-</u> 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

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

Student Health & Wellness Centre: <u>https://www.dal.ca/campus\_life/health-and-wellness.html</u>

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

Indigenous Student Centre: 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 <u>elders@dal.ca</u> or 902-494-6803:

https://cdn.dal.ca/content/dam/dalhousie/pdf/academics/UG/indigenousstudies/Elder-Protocol-July2018.pdf

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

International Centre: https://www.dal.ca/campus\_life/international-centre.html



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

LGBTQ2SIA+ Collaborative: https://www.dal.ca/dept/vpei/edia/education/community-specificspaces/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: <u>https://www.dal.ca/campus\_life/safety-respect/student-rights-and-responsibilities/where-to-get-help/ombudsperson.html</u>

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

Writing Centre: <u>https://www.dal.ca/campus\_life/academic-support/writing-and-study-skills.html</u>

Study Skills/Tutoring: <u>http://www.dal.ca/campus\_life/academic-support/study-skills-and-tutoring.html</u>

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

# Safety

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

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

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

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