

Biology 3322.03 PARASITOLOGY, 2023

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Dalhousie University is located in Mi'kma'ki, the ancestral and unceded territory of the Mi'kmaq. We are all Treaty people.

Course description:

The course emphasizes the parasite-host relationships, evolution of the parasites and adaptations to the host, modifications of physiology, structure and life cycle for a parasitic existence. Since the most extensive research pertains to parasites of man, the emphasis is on human parasites.

This class will be offered in a hybrid style, lectures will be in-person and online, and labs will be held in person. Please refer to Brightspace announcement page for any updates regarding delivery and any other changes.

Course Objectives/Learning Outcomes:

Knowledge of parasite's taxonomy, anatomy, physiology, life cycles.

Knowledge of symptoms, ways of transmission and treatment of vector-borne and parasitic diseases.

Knowledge of basic immune system and how parasites impact human immunology.

Skills to recognize parasites

Knowledge of preserving and working with parasites in a lab setting.

Organization:

First lecture will be **in-person** and held during the listed time on the timetable: **Tuesday September 5th, 2022 at 5:35 PM in LSC238**. All other will be in-person and asynchronous and uploaded weekly. We encourage everyone to try and attend this live session so you get to ask questions about the class should you have any. If you are unable to attend, do not worry as it will be recorded and posted on Brightspace. Make sure you listen to that recording before asking any questions about the class.

Labs on Tuesday @ 11:35 – 14:25; @14:35 – 17:25; on Thursday @ 11:35 – 14:25; 14:35- 17:25 in LSC-BIOL&EARTH B5012

*Please make sure to purchase the lab manual for BIOL3322 from the bookstore.

Office hours: By appointment via email (trossoli@dal.ca).

Grading:

2 Midterms (15% each, 30% total) and final exam (30%) cover subjects from lectures, labs, and reading. The final exam is a comprehensive exam including all taxa from the beginning of the course. The exam and midterm include a wide variety of questions and problems, some based on taxonomy of the organisms, many based on their anatomy, some based on their functional biology, natural history, life cycles and host-parasite relationship, some based on medical significance of parasites and drugs used to cure diseases caused by parasites.

Do not miss the exam. Any make-up exam (by prior arrangement or in dire emergency) consists of a two-hour oral examination covering the same general areas of the written exam.

The remainder of the semester grade is based on the laboratory work: lab notebook (15%), mini lab report on DNA/PCR on ticks (10%), a 7-10 minutes presentation on species or taxonomic group of parasites (10%), and attendance for labs (5%).

Important Dates:

Midterm: October 3rd and November 7th

Quiz review session/online meeting session: October 10th and November 21st in-person.

Mini lab report due week of November 20th (post reading week, Nov 21st and 23rd).

Presentations will be done during the lab time starting on October 10th (Tues) or October 12th (Thurs) until October 24th (Tues) or October 26th (Thurs). Duration of presentation is 7-10 minutes.

Lab notebook due before the lab exam on November 28th, 2023.

Date of the final exam will be November 28th, 2023 in person (subject to change).

Conversion of numerical grades to Final Letter Grades follows 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)		

Recommended textbook (not mandatory):

G.D.Schmidt & L.S.Roberts. Foundations of parasitology. Any edition, McGraw-Hill Higher Education

Website: www.tatiana.rossolimo.com

Missed or late academic requirements

For missed or late academics requirements during the term (assignments, tests, etc.), **policy has not changed**. We ask students complete the Student Declaration of Absence **PRIOR** to the due date or test date. Students who are ill for an extended period and thus miss multiple requirements should directly contact the professor and they will work alongside student affairs to arrange for appropriate solution.

Please see below specific requirements for each of the graded items in this class:

- **Final exam** – **Must inform James and Tatiana at least a week before the exam or have valid reasoning if notified later.** Make up final exam will be an oral exam scheduled and administered by Tatiana directly.
- **Midterm** – Makeup midterm format and timing at instructor/professor's discretion. Make-up will be a different exam with different questions.
- **Lab notebook** – Deduction of 10% of total grade per day for late submission. Grade of 0 upon five days past due date.
- **Presentation** – Deduction of 10% of total grade per day for late submission. Grade of 0 upon five days past due date.
- **Lab quizzes** – Deduction of 10% of total grade per day for late completion. Grade of 0 upon seven days past due date.

Please note additional considerations for online learning for the class:

Should you have any questions or concerns, please feel free to contact the professor or instructors for guidance. We realize this is a learning experience for both the students and the teaching team and we ask for your patience as we navigate through the class together.

- When connecting to online resources from outside of Canada, students are responsible for ensuring that they are aware of and observing any applicable laws of the country they are connecting from.
- Please refer to https://www.dal.ca/academics/online_learning.html for important resources on how to learn online, including technical requirements:

- Technical info including minimum specifications for computers and the tools we will be using such as Panopto: https://www.dal.ca/academics/online_learning/getting-started-.html
- These requirements are based on the standard Dal-provided academic technology. For our class, we do not anticipate any other additional or different specifications.
- Students unable to provide their own computer or with internet connection issues can access information about resources including extended laptop loans, accessing computers, the internationally available eduroam Internet service, and more here: https://www.dal.ca/academics/online_learning/what-to-expect/faqs.html

Please do not hesitate to contact James (james.kho@dal.ca) should you have any questions or concerns regarding course delivery and technical difficulties before or during the course.

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://www.dal.ca/academics/important_dates.html

University Grading Practices

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

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/academic-advising.html>

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

Black 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/services-support/student-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

Research Lab Safety https://www.dal.ca/content/dam/dalhousie/pdf/dept/safety/lab_policy_manual_2007.pdf

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>