

Dalhousie University **Syllabus for Biology 2040.03 Evolution**

Class website: OWL: www.dal.ca/ILO go to academic login. Or go through my.dal *Learning Resources*.

LECTURES: Lectures are held in the LSC C242 on Tuesdays and Thursdays from 10:05 - 11:25 am.

TEXTBOOKS: The textbooks for the class and lab are available to purchase in the Dalhousie bookstore. There are also copies for you to borrow for a short period of time in the Killam Library.

- 1) Freeman, S. and Herron, J.C. *Evolutionary Analysis* 4th Edition. © 2007 Pearson Education.
- 2) Knisely, Karin. *A Student Handbook for Writing in Biology*. 3rd Ed © 2009 Sinauer Associates (note; this is also required for other Biology classes).

LAB MANUAL: Available to purchase in the Dalhousie Bookstore.

GRADING: The marks will be assigned as follows:

Midterm	25 %	In class
Fly report	9 %	Due during and at the end of semester
Lab assignments	19 %	Due at the start of the following lab
Pre-lab Quizzes	2 %	Due before your lab day
Final exam	45 %	Scheduled by the Registrar
Total	100 %	

FACULTY OF SCIENCE GRADE SCALE:

A+	90-100	B+	75-79.9	C+	62-64.9	D	50-54.9
A	85-89.9	B	70-74.9	C	58-61.9	F	<50
A-	80-84.9	B-	65-69.9	C-	55-57.9		

EXAMS: The midterm will be held in your regular lecture period (see schedule for date). The final exam will be held during the formal exam period, and will be scheduled by the registrar. Students are expected to be available throughout the final exam period.

LABORATORIES: The labs are held in the LSC Room 2112. Labs start the second week of classes.

The day and time of each lab are as follows:

B01 Monday	13:35 - 15:25	B04 Tuesday	14:35 - 16:25
B02 Monday	15:35 - 17:25	B05 Wednesday	12:35 - 14:25.
B03 Tuesday	11:35 - 13:25	B06 Wednesday	14:35 - 16:25

LABORATORY ASSIGNMENTS: These are collectively worth 30 % of your final grade. The five regular lab assignments are worth 3.5 - 4 % each. There is one formal laboratory report based on the fly labs. It will be written in sections but the majority of it is due at the end of the semester. In total it is worth 9 %. Pre-lab BLS quizzes are worth 2 % in total. The other laboratories have assignments that are due (typed and printed) at the *beginning* of the following laboratory (unless otherwise stated). These assignments include both in-laboratory assignments and take-home assignments.

LAB ATTENDANCE and ASSIGNMENT GUIDELINES

ATTENDANCE is mandatory at all labs unless you can provide appropriate documentation. The only exception is during holidays. However, it is your and your lab group's responsibility to ensure that the duties for this laboratory are fulfilled. The work involved during the week of holidays will be minimal. These arrangements will be discussed during the lab period.

DUE DATES for Assignments: The printed (hard copy) is always due at the **START** of your regular lab time. It is expected that you use a computer to type up and print out the assignments.

E-mailed assignments are not acceptable and will not be graded.

Late assignments will be penalized **10% per day**, this includes Turnitin submissions.

A **late assignment** is anything not handed in (typed and printed) by the **start** of the lab period. If submitting a late report, you must hand it in to the Biology Main Office during their regular office hours, get it date stamped, and the office staff will put it into the Lab Co-ordinator's mailbox. Late assignments handed in after the lab has started but before 4:15 pm of the same day, will receive a 5% late deduction.

Late deductions are based on the total value of the assignment due that day. Sorry, if you choose to hand in part of an assignment or section of the fly report at a different time, the deduction is based on the total value of what was due, not just the part that you submitted late.

If it is necessary to hand in a late report over the *weekend*, you may e-mail it to the lab co-ordinator, to have the date and time recorded when it was received. Please note the *printed* copy of your e-mailed report is due by 10 am the following Monday morning in the Biology Main Office, or you will incur further late deductions.

Biology Main Office (LSC 2078) Hours: 8:30 am - 4:15 pm, Monday to Friday.

Please **PLAN AHEAD!** Save your work in several places (try Dal's Net Storage, accessible through My.Dal) and don't leave things to the last minute! The following are *examples* of excuses that *do not* qualify for an extension for a lab assignment:

1. Forgot assignment at home
2. Computer broke down
3. Printer did not work
4. Forgot to save
5. Lost disk
6. Sent by e-mail and was lost

You are encouraged to collaborate with fellow students. You must, however, produce independently written reports. See <http://plagiarism.dal.ca/index.php>

PRE-LAB QUIZZES: There are five quizzes each worth 0.4% which must be completed by **11 am** of your regular lab day. They are available on the class BLS website for three days in total. You have only **one attempt and five minutes** to answer the questions and submit your quiz.

TURNITIN: You must submit all sections (except the results section) *of the fly lab report* into the Turnitin site located in the BLS class website by the **same due date** as the printed copy. If your name does not appear, do not worry, because you logged in through the BLS site, your submission will be identified. Please note, the same late deductions (-10% per day) will apply as for regular assignments, and a failure to submit the fly report sections to Turnitin will result in a grade of zero for that part of the report.

ABSENCES: Students are required to attend another lab session that week and are still responsible for the assignment. Extensions are only given for medical reasons, Dalhousie sports team absences, or

other exceptional circumstances (documentation is required). It is YOUR responsibility to contact the lab co-ordinator as early as possible about your absence.

1. Students who miss laboratories due to illness must contact the lab co-ordinator prior to the lab period and provide a medical certificate signed by a physician ***within one week*** of the onset of the illness.
2. Alternate arrangements can be made for students who for medical reasons e.g. scheduled surgery etc. anticipate missing class work provided that your lab co-ordinator is notified well in advance.
3. If you must miss a laboratory session for any other reason, you must inform the lab co-ordinator **on or before the day in question**. Whether you will be permitted to make up for your absence and/or submit the assignment for that laboratory will be up to the discretion of the Lab co-ordinator.

Students who do not attend a laboratory session (and do not have a medical or other valid reason for absenteeism) WILL NOT be permitted to submit the assignment for that laboratory, and will receive a grade of zero for that assignment.

CONTACTS

Course Instructor:	Dr. Mark Johnston	Office: LSC 7132 Phone: 494-8005	E-mail: Mark.Johnston@Dal.Ca
Lab Instructor/ Co-ordinator	Elizabeth Welsh	Office: LSC 3130 Phone: 494-7110	E-mail: ewelsh@dal.ca
Lab Technician:	Doug Mitchell	Office: LSC 1026 Phone: 494-2785	E-mail: mitcheds@dal.ca

IMPORTANT TELEPHONE NUMBERS

FOR ALL EMERGENCIES call 4109 from any Dalhousie phone, or dial 494-4109 from an outside (non Dalhousie) line (for fire, police, ambulance, Dal Security Emergency).

Emergency (4109) calls are routed through Security Office. Security Personnel then coordinate the notification and direction of the various emergency services. When security at 4109 was not called and 911 emergency was called directly, the responders often could not find the location and precious time was wasted.

Non - emergency numbers: Health Services: Howe Hall 2171
Dal Security for *non-emergencies* 6400 Maintenance after hours 6400
QE II Emergency 9-428-2043 Poison Control Center Information 9-428-8161

Student Accessibility Services "Students with disabilities are encouraged to register as quickly as possible at the Student Accessibility Services if they wish to receive academic accommodations. To do so please phone 494-2836, email access@dal.ca, drop in at the new Mark A. Hill Accessibility Centre or visit our website www.studentaccessibility.dal.ca . Students are also reminded that, for your convenience, all forms are now available on our website. "

Biology 2040 Lab and Lecture Schedule for the Fall Semester

For the 3rd edition: chapters 1-3 are the same, chapter 4 (4th) is chapter 14 (3rd); chapter 5 and up (4th) subtract one for the corresponding chapter in the 3rd edition.

Week	Lecture	Read	Assignment Due	Laboratory
1	R Conspectus of Evolutionary biology	Ch 1	-----	<i>No Labs this week</i>
2	T Evidence for evolution R Natural Selection	Ch. 2 Ch. 3	-----	Lab 1: Fly Lab: Introduction
3	T Reconstructing Phylogeny R Reconstructing Phylogeny	Ch. 4 Ch. 4	Fly Lab: Methods & Materials (1%)	BLS Quiz (practice) Lab 1: Fly Lab: Setup
4	T Mutation and Genetic variation R Population Genetics	Ch. 5 Ch. 6	Writing Assignment (0.5%)	BLS Quiz Lab 2: Marble Lab (Fly Lab: Remove adults)
5	T Population Genetics R Population Genetics	Ch. 6 Ch. 7	Marble Assignment (4%)	(Fly Lab: 1 st transfer)
6	T Population Genetics R MIDTERM EXAM	Ch. 7 -----	-----	<i>Thanksgiving Day Week</i> (Fly Lab: Remove adults)
7	T Multiple Loci: Why Sex? R Multiple Loci: Why Sex?	Ch. 8 Ch. 8	Fly Lab: Introduction (2%)	(Fly Lab: 2 nd Transfer)
8	T Multiple loci: Quant Genetics R Multiple loci: Quant Genetics	Ch. 9 Ch. 9	-----	BLS Quiz Lab 3: DNA Sequences Lab (Fly Lab: Remove adults)
9	T Multiple loci: Quant Genetics R Studying Adaptation	Ch. 9 Ch. 10	DNA Sequences: Assignment (3.5%)	BLS Quiz Lab 4: Beetle Lab (Fly Lab: 3 rd transfer)
10	T Studying Adaptation R ---Study Day no class---	Ch. 10 -----	Beetle Lab: Assignment (3.5%)	BLS Quiz Lab 5: Phylogeny Lab (Fly Lab: Remove adults)
11	T Sexual Selection R Why do we get old?	Ch. 11 Ch. 13	Phylogeny Lab: Assignment (4%)	BLS Quiz Lab 6: Duck Lab (Fly Lab: Finish)
12	T Life-History evolution R Speciation	Ch. 13 Ch. 16	Duck Lab: Assignment (3.5%)	-----
13	T Speciation R	Ch. 16	Fly Lab: Abstract Results Discussion (6%)	-----

Dalhousie University Examinations

Academic Integrity

The information on this page is from: http://academicintegrity.dal.ca/Faculty%20Resources/Syllabus_Stement.php accessed July 21, 2011.

“What does academic integrity mean?”

At university we advance knowledge by building on the work of other people. Academic integrity means that we are honest and accurate in creating and communicating all academic products. Acknowledgement of other people’s work must be done in a way that does not leave the reader in any doubt as to whose work it is. Academic integrity means trustworthy conduct such as not cheating on examinations and not misrepresenting information. It is the student’s responsibility to seek assistance to ensure that these standards are met.

How can you achieve academic integrity?

We must all work together to prevent academic dishonesty because it is unfair to honest students. The following are some ways that you can achieve academic integrity; some may not be applicable in all circumstances.

- make sure you understand Dalhousie’s policies on academic integrity (see <http://academicintegrity.dal.ca/Policies/>)
- do not cheat in examinations or write an exam or test for someone else
- do not falsify data or lab results

Be sure not to **plagiarize**, intentionally or unintentionally, for example...

- clearly indicate the sources used in your written or oral work. This includes computer codes/ programs, artistic or architectural works, scientific projects, performances, web page designs, graphical representations, diagrams, videos, and images
- do not use the work of another from the Internet or any other source and submit it as your own
- when you use the ideas of other people (paraphrasing), make sure to acknowledge the source
- do not submit work that has been completed through collaboration or previously submitted for another assignment without permission from your instructor

(These examples should be considered only as a guide and not an exhaustive list.)

Where can you turn for help?

If you are ever unsure about any aspect of your academic work, contact me (or the TA):

- Academic Integrity website (see <http://academicintegrity.dal.ca/>) - Links to policies, definitions, online tutorials, tips on citing and paraphrasing
- Writing Centre (see <http://writingcentre.dal.ca/>) - Assistance with proofreading, writing styles, citations
- Dalhousie Libraries (see <http://www.library.dal.ca/>) - Workshops, online tutorials, citation guides, Assignment Calculator, RefWorks
- Dalhousie Student Advocacy Service (see <http://www.dsu.ca/services/advocacy>) - Assists students with academic appeals and student discipline procedures.
<http://senate.dal.ca/Faculty%20Discipline%20Process/>

The University provides policies and procedures that every member of the university community is required to follow to ensure academic integrity.

What will happen if an allegation of an academic offence is made against you?

As your instructor, I am required to report every suspected offence. The full process is outlined in the Discipline Flow Chart (see <http://academicintegrity.dal.ca/Files/AcademicDisciplineProcess.pdf>) and includes the following:

- Each Faculty has an Academic Integrity Officer (AIO) who receives allegations from instructors
- Based on the evidence provided, the AIO decides if there is evidence to proceed with the allegation and you will be notified of the process
- If the case proceeds, you will receive a PENDING grade until the matter is resolved
- If you are found guilty of an offence, a penalty will be assigned ranging from a warning, to failure of the assignment or failure of the class, to expulsion from the University. Penalties may also include a notation on your transcript that indicates that you have committed an academic offence.”