



School of Arts & Science
BIOLOGY DEPARTMENT
BIOLOGY 124-001
Evolution & Biological Diversity
Winter 2014 (Jan-Apr)

COURSE OUTLINE

The course description is online @ <http://camosun.ca/learn/calendar/current/web/biol.html>

1. Instructor Information

Instructor:	Geoff Haywood, Ph.D.		
Office Hours:	Wed. 2.30-3.20 PM Fri. 10.30 – 11.20 AM		
Location:	F246 (Fisher building)		
Phone:	250-370-3196	Alternative Phone:	n/a
Email:	haywoodg@camosun.bc.ca		
Website:	D2L		

2. Intended Learning Outcomes

Upon completion of this course the student will:

- 1) be able to identify and classify living organisms to their major taxonomic groupings, and to list their defining characteristics
- 2) be able to describe the major lines of evidence for evolution
- 3) be able to explain major topics in evolutionary theory

3. Required Materials

- 1) Textbook: Campbell, N. A. & J. B. Reece. 2011. Biology, 9th ed., (or earlier editions) Pearson Education, Inc., San Francisco, CA.
- 2) Camosun College Biology Faculty. Fall 2013. Biology 124 Lab Manual, Camosun College, Victoria, B.C.

4. Course Content and Schedule

Lecture

Wed, Fri 1:00 – 2:20 pm F200

Lab

Section 002A Mon. 9:30 – 12:20 F244
 Section 002B Thur. 2:30 – 5:20 F244

The schedule, which follows, is an attempt to outline the weekly activities of the class. It is subject to change or modification as the need arises.

Date	Lecture Topic	Ch.	Laboratory Exercise
Jan. 6 -10	Biological Diversity concept Darwinian Evolution	22	No scheduled lab
Jan. 13 – 17	Phylogeny Population Evolution	26 23	Lab 1 Phylogeny Appendix 2 Microscopes
Jan. 20 – 24	Species Evolution	24	Microscope quiz Lab 2 Natural Selection
Jan. 27 – 31	Prokaryotes	27	Lab 3 Prokaryote lab
Feb. 3 – 7	Protists Lecture Midterm 1 Exam	28	Lab 3 - completed Lab 4 Protist lab
Feb 10			Family Day – College Closed No Scheduled Lab
Feb. 11 - 14	Protists	28	
Feb. 17 - 21	Seedless Plants	29	Lab Exam 1
Feb. 24 – 28	Seed Plants	30	Lab 5 Seedless plant lab
Mar. 3 - 7	Fungi Animal Evolution	31 32	Lab 6 Seed plant Lab
Mar. 10 – 14	Invertebrates Lecture Midterm 2 Exam	33	Lab 7 Fungi Lab
Mar. 17 – 21	Invertebrates	33	Lab 8 Invertebrates Porifera - Mollusca
Mar. 24 – 28	Vertebrates	34	Lab 9 invertebrates Annelida-Echinodermata
Mar. 31 – Apr. 4	Vertebrates	34	Lab 10 Chordates and vertebrates
Apr. 7 – 11	Review & Catch up		Lab Final Exam

Last day to withdraw Nov.9th

Final exam April 14-18, **Do not book flights** before final exam schedule is posted in October.

5. Basis of Student Assessment (Weighting)

Lab Exam I	10%
Lab Exam 2	15%
Lecture Midterm I	15%
Midterm II	15%
Final Lecture Exam	30%
Assignments/quizzes	15%

*** Lab exams will be unit exams. Lecture exams will be cumulative.

6. Grading System

Standard Grading System (GPA)

Percentage	Grade	Description	Grade Point Equivalency
90-100	A+		9
85-89	A		8
80-84	A-		7
77-79	B+		6
73-76	B		5
70-72	B-		4
65-69	C+		3
60-64	C		2
50-59	D	Minimum level of achievement for which credit is granted; a course with a "D" grade cannot be used as a prerequisite.	1
0-49	F	Minimum level has not been achieved.	0

Temporary Grades

Temporary grades are assigned for specific circumstances and will convert to a final grade according to the grading scheme being used in the course. See Grading Policy E-1.5 at camosun.ca for information on conversion to final grades, and for additional information on student record and transcript notations.

Temporary Grade	Description
I	<i>Incomplete</i> : A temporary grade assigned when the requirements of a course have not yet been completed due to hardship or extenuating circumstances, such as illness or death in the family.
IP	<i>In progress</i> : A temporary grade assigned for courses that, due to design may require a further enrollment in the same course. No more than two IP grades will be assigned for the same course. (For these courses a final grade will be assigned to either the 3 rd course attempt or at the point of course completion.)
CW	<i>Compulsory Withdrawal</i> : A temporary grade assigned by a Dean when an instructor, after documenting the prescriptive strategies applied and consulting with peers, deems that a student is unsafe to self or others and must be removed from the lab, practicum, worksite, or field placement.

7. Recommended Materials or Services to Assist Students to Succeed Throughout the Course

LEARNING SUPPORT AND SERVICES FOR STUDENTS

There are a variety of services available for students to assist you throughout your learning. This information is available in the College calendar, at Student Services, or the College web site at camosun.ca.

STUDENT CONDUCT POLICY

There is a Student Conduct Policy **which includes plagiarism**. It is the student's responsibility to become familiar with the content of this policy. The policy is available in each School Administration Office, at Student Services, and the College web site in the Policy Section.

8. Recommended learning techniques.

PLEASE READ THIS SECTION CAREFULLY SO YOU FULLY UNDERSTAND IT

This course involves an abundance of factual material and consequently may prove difficult for some students.

Due time should be allocated to assignments with a minimum of 3-5 hours spent each week on reviewing material.

In order to facilitate labs, it is important that students study the upcoming lab BEFOREHAND- in order to be fully familiar with the material to be presented. Students will be given short quizzes each week at the beginning of a new lab, BASED ON THE UPCOMING LAB – in order to reinforce this concept of doing a “prelab” study.