



**School of Arts & Science
BIOLOGY DEPARTMENT**

**BIOL 124-001
Evolution and Diversity
2007F**

COURSE OUTLINE

The Approved Course Description is available on the web @ _____

Ω Please note: this outline will be electronically stored for five (5) years only.
It is strongly recommended students keep this outline for your records.

This course consists of studies in the general areas of evolution and organism diversity. Topics include natural selection, the genetic basis of evolution, speciation and evolutionary change and the adaptive radiation of organisms.

1. Instructor Information

(a)	Instructor:	Rosemary Mason		
(b)	Office Hours:			
(c)	Location:	Ewing 236		
(d)	Phone:	370-3301	Alternative Phone:	
(e)	Email:	masonr@camosun.bc.ca		
(f)	Website:	http://masonr.disted.camosun.bc.ca/		

Time and location:

Lectures:	Mon., Thur., Fri.	8:30 – 9:20	F200
Lab:	Tues. (Sec. 01A)	8:30 – 11:20	F224
	Wed. (Sec. 01B)	8:30 – 11:20	F224

Prerequisites: English 12 **or** assessment, **and** “C+” in Biology 12

2. Intended Learning Outcomes

(No changes are to be made to this section, unless the Approved Course Description has been forwarded through EDCO for approval.)

Upon completion of this course the student will be able to:

1. Identify and classify living organisms to their major taxonomic groupings, and to list their defining characteristics.
2. Describe the major lines of evidence for evolution.
3. Explain major topics in evolutionary theory.
4. Discuss the nature of scientific knowledge in biology, its limits and strengths, and how it is documented.

3. Required Materials

- 1) Textbook: Campbell, N. A. & J. B. Reece. 2005. Biology, 7th ed., Pearson Education, Inc., San Francisco, CA.
- 2) Camosun College Biology Faculty. Winter 2007. Biology 124 Lab Manual, Camosun College, Victoria, B.C.

4. Course Content and Schedule

(Can include: class hours, lab hours, out of class requirements and/or dates for quizzes, exams, lectures, labs, seminars, practicums, etc.)

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.

Week	Date	Lectures	Ch.	Lab
1	Sept. 4 - 7	Biological Diversity Phylogeny & Systematics	25	Introduction
2	Sept. 10 - 14	Evolution – Darwinian Population Evolution	22 23	Lab 1
3	Sept. 17 – 21	Origin of Species	24	Lab 2 – HW
4	Sept. 24 – 28	Prokaryotes	27	Lab 3 Evolution Microscopes
5	Oct. 1 – 5	Protists Lecture Midterm 1	28	Prokaryote lab
October 8 - Thanksgiving – College closed				
6	Oct. 9 - 12	Protists		Protist lab
7	Oct. 15 – 19	Protists Seedless Plants	29	Protist lab complete
8	Oct. 22 – 26	Seedless Plants Seed plants	30	Lab Midterm
9	Oct. 29 – Nov 2	Seed plants		Seedless plant lab
10	Nov. 5 – 9	Fungi Lecture Midterm 2	31	Seed plant lab
November 12 - College closed in lieu of Remembrance Day				
11	Nov. 13 – 16	Animal Evolution	32	Fungi Lab
12	Nov. 19 – 23	Invertebrates	33	Invertebrate Lab
13	Nov. 26 – 30	Vertebrates	34	Vertebrate
14	Dec. 3 – 7	Vertebrates & review week		Review

5. Basis of Student Assessment (Weighting)

(Should be linked directly to learning outcomes.)

Lab Exam I	week of Oct. 22	15%
Lab Exam II	as scheduled	15%

Midterm I	Oct. 4	15%
Midterm II	Nov. 7	15%
Final Lecture Exam	as scheduled	25%
Assignments/quizzes		15%

*** Midterms I and II will be unit exams. The final lecture exam will be cumulative.

6. Grading System

(No changes are to be made to this section, unless the Approved Course Description has been forwarded through EDCO for approval.)

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. <i>(For these courses a final grade will be assigned to either the 3rd course attempt or at the point of course completion.)</i>
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 them throughout their 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 on the College web site in the Policy Section.

ADDITIONAL INFORMATION

Be sure that you are familiar with the General Department Policies stated in the lab manual. These policies will be discussed during the first lab meeting.

Each student is required to sign a Laboratory Safety Contract and give it to the instructor prior to commencing laboratory work in the course.

No programmable devices are allowed in exams.

Assignments are due at the **beginning** of the class period on the due date. Assignments not handed in at the beginning of class will be considered late, for which there is a 15% penalty/day.

Note: There is the option of 1 free late assignment. There will be no penalty provided the assignment is received **prior** to it being marked and returned to the class. Any assignment received after its return to the rest of the class will be marked but will not receive credit.

You should plan on a minimum of 6 hours outside of scheduled class time for the completion of assignments and for general studying.