



**School of Arts & Science
BIOLOGY DEPARTMENT
BIOL 124 - 003
Evolution and Diversity
Fall 2009**

COURSE OUTLINE

Instructor Information

Instructor:	W. Donald MacRae
Office Hours:	Mon (12:30-2:30), Tues (1:30-2:30), Wed (2:30-3:30), Thurs (2:30-3:30)
Location:	F 346A
Phone:	250 370-3437
Email:	dmacrae@camosun.bc.ca
Website:	D2L

Intended Learning Outcomes

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.

Required Materials

Campbell, N. A. et al., 2008. Biology, 8th ed., Pearson Benjamin Cummings, San Francisco.

Biology 124 Lab Manual- Fall 2009, Camosun College, Victoria, B.C.

Course Content and Schedule

Date	Lecture Topic	Ch.	Labs – Don & Rosemary
Sept. 8 - 11	History of Life	25	Introduction
Sept. 14 - 18	The Darwinian Revolution Evolution of Populations	22 23	Lab 3 Woodlice
Sept. 21 - 25	Evolution of Species	24	Lab 1 Phylogeny
Sept. 28 – Oct. 2	Phylogeny Prokaryotes	26 27	Lab 2 Natural Selection Appendix 3 - Microscopes
Oct. 4 – 8	Protists	28	Lab 4 Prokaryotes + Microscope quiz
Oct. 13 - 16	Seedless Plants Lecture Midterm 1	29	Lab 5 Protists+ finish Prokaryotes
October 12 – Thanksgiving, College closed			
Oct. 18 - 22	Seed Plants	30	Lab Midterm
Oct. 25 – 29	Seed Plants	30	Lab 6 Seedless plants
Nov. 1 – 5	Fungi	31	Lab 7 Seed plants
Nov. 8 - 12	Animal Evolution	32	Lab 8 Fungi
Nov. 11 – Wednesday - Remembrance Day, College closed			
Nov. 15 - 19	Lecture Midterm 2 Invertebrates	33	Labs 9 & 10 Invertebrates
Nov. 22 - 26	Invertebrates Vertebrates	33 34	Lab 11 Vertebrates
Nov. 29 – Dec. 3	Vertebrates	34	
Dec. 6 - 11	Review & Catchup		Lab Final

Basis of Student Assessment

Lab Midterm Exam	10%
Lab Exam	15%
Lecture Midterm 1	10%
Midterm 2	15%
Final Lecture Exam	25%
Assignments/quizzes	25%

Exams not written:

- 1) A student who misses an exam because of illness or emergency must contact me (in person, e-mail or phone message) as soon as possible – preferably before the start of the exam. Some verification of the reason for missing the exam is required.
- 2) Make-up exams will only be offered for the final exam. If an exam, other than a final exam, is missed because of illness or emergency, the missing mark will be obtained by averaging the marks obtained on the completed exams.

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.

Expectations of Students:

- 1) A Student Conduct Policy deals with plagiarism and other negative behavior. It is available in each School Administration Office, at Student Services, and the College web site in the Policy Section. It is the student's responsibility to become familiar with the content of this policy.
- 2) During Laboratory activities, follow all safety practices described by your instructor.