

COURSE OUTLINE
Grading Systems



School of Arts & Science

BIOL 124 Evolution and Diversity
Summer 2005

COURSE OUTLINE

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

Prerequisites: English 12 or assessment, and C+ in Biology 12 or equivalent

Lecture	M/Th 2:30-5:20	F 338
Lab	T/F 2:30-5:20	F 222

1. Instructor Information

Instructor: Annette Dehalt, *M.Sc.*

Office hours: M/T/Th/F 2:00-2:25 and M/T/Th 5:20-6:00

Office location: F 344 D

Phone: 370-3506

e-mail: dehalt@camosun.bc.ca

web site: <http://www.dehalt.disted.camosun.bc.ca/index.php>

2. Intended Learning Outcomes

- be able to identify and classify living organisms to their major taxonomic groupings, and to list their defining characteristics
- be able to describe the major lines of evidence for evolution
- be able to explain major topics in evolutionary theory
- be able to discuss the nature of scientific knowledge; its limits and strengths, and how it is produced

3. Required Materials

- (a) Textbook: Campbell, N.A. and J.B. Reece. 2002 or 2005. Biology 6th or 7th ed.
- (b) BIOL 124 Laboratory Manual

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4. Course Content and (tentative) Schedule

All exams are on the scheduled dates unless announced otherwise.

<i>Week</i>	<i>LECTURE</i>	<i>LAB</i>
July 7/8	Th: course overview, biodiversity, species concept, systematics, origin of life, geologic time scale (excerpts ch. 1, 24, 25, 26, 55)	F: Introduction: Safety, Microscopes, 5. Prokaryotes – part I
July 11-15	M: Prokaryotes (ch. 27) viruses (excerpt ch. 18), life cycles (excerpt ch.13) Th: Quiz I , Protists, Fungi (ch. 28, 31)	T: 5. Prokaryotes – part II F: 6. Protists
July 18-22	M: plant evolution, Seedless Plants (ch. 29) Th: Seed Plants (ch. 30)	T: 7. Fungi F: 8. Seedless Plants
July 25-29	M: MID-TERM I , animal evolution (ch. 26, 32) Th: Invertebrates (ch. 33)	T: 9. Seed Plants F: Field Trip : Mt. Doug*
Aug. 1-5	M: <i>holiday (no class)</i> Th: Invertebrates cont. (ch. 33)	T: LAB EXAM I F: 10a. Animals – part I
Aug. 8-12	M: Quiz II , Chordates/Vertebrates (ch. 34) Th: Vertebrates cont. (ch. 34)	T: 10b. Animals – part II F: 11a. Animals – part III
Aug. 15-19	M: MID-TERM II , micro-evolution (ch.23) Th: macroevolution (ch. 24)	T: 11b. Animals – part IV F: 9:00-10:00 a.m. <i>optional field-trip: Ogden Pt.*</i> 3:30-5:20 LAB EXAM II
Aug. 22/23	M: scientific process (excerpt ch. 1), theory & evidence of evolution (ch. 22)	T: (no lab) <i>optional final exam review</i>
Aug. 25/26	<u>FINAL EXAM PERIOD</u>	

* **Field-trips**: Class meets at designated field sites. Field-trip may be shorter than regular class time or optionally outside of regular class time. Students are responsible for transportation to and from the field site and for safety-conscious behavior. Wear appropriate (non-slip, hiking) footwear and dress for the weather. If medical reasons prevent participation in the required field-trip, let instructor know a.s.a.p. to arrange for an alternate learning activity. Further details provided in class.

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5. Basis of Student Assessment

Assignments/quizzes	15%
Midterm I	15%
Midterm II	15%
Lab Exam I	15%
Lab Exam II	15%
Final Exam	25%

Midterms I and II, as well as the lab exams, will be unit exams.
The final lecture exam will be cumulative.
Please bring a pen *and* pencil to all exams.

6. Grading System

The following percentage conversion to letter grade will be used:

A+ = 95 - 100%	B = 75 - 79%	D = 50 - 59%
A = 90 - 94%	B- = 70 - 74%	F = 0 - 49%
A- = 85 - 89%	C+ = 65 - 69%	
B+ = 80 - 84%	C = 60 - 64%	

ADDITIONAL INFORMATION

General:

Be sure that you are familiar with the **General Department Policies**, which are stated in the lab manual. A student conduct code will also be observed.

ACADEMIC CONDUCT POLICY

There is an Academic Conduct Policy. It is the student's responsibility to become familiar with the content of this policy. The policy is available in each School Administration Office, Registration, and on the College web site in the Policy Section.

www.camosun.bc.ca/divisions/pres/policy/2-education/2-5.html

Please note: **Plagiarism** will not be tolerated in any form, and may result in "0".
No **programmable devices** are allowed in exams.
Each student is required to sign a **Laboratory Safety Contract** and give it to the instructor prior to commencing laboratory work in the course.

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Attendance: You are expected to attend all classes and labs, and be on time. It is your responsibility to acquire *all* information given during a class missed, incl. notes, hand-outs, assignments, changed exam dates etc.

Exams: Missed exams cannot be made up except in case of documented emergency or illness (doctor's note required). Unless prevented by emergency, you need to contact the instructor *prior* to the exam being missed in order to be eligible for the make-up exam.

Labs: For the best learning experience and most efficient use of lab time, it is necessary to read and mentally work through each exercise before coming to lab. Please also come prepared with a pencil and a few sheets of unlined paper, in case drawings are required.

Field-trips: see section 4 footnote)

Assignments: Unless otherwise stated, all assignments are due at the *beginning* of the lab/class of the due date. There is a **10%/day late penalty**. A **professional format** is expected, i.e. a neat, legible, clean copy. "Rough" drafts risk rejection and a subsequent late penalty or reduced marks. If the assignment is more than one page, separate pages must be *stapled*.

Study Habits: You may most likely find this course not very difficult, but surprisingly labor-intensive. Good (and regular!!) study habits are required to do well in this course. You should plan on a ***minimum*** of 6 hours/week (**12 hrs/wk for summer school**) outside of scheduled class time for general studying and for the completion of assignments. Joining a study group can help this make more fun. In addition, some "study hints" are posted on my web site, and the college also offers study skill courses and individual consultations.

Lecture notes will be provided in point form. These should be used as a guide line and "skeleton" for additional notes from lectures and text, not as your sole source of information! Study your revised notes before the next class to prepare yourself for new material, which will often build on previously covered material.

Exam questions will be based primarily on material covered in class. However, studying additional details in the corresponding textbook sections will help you understand the material more thoroughly. It is not sufficient simply to memorize point-form notes! Please keep up with your readings, and take advantage of office hours if you need extra clarification and help, or simply would like to discuss a topic a little further.

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

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College Calendar, Registrar's Office or the College web site at
<http://www.camosun.bc.ca>