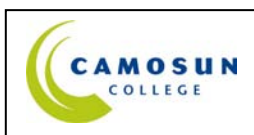


Course Content and Schedule

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 | Lecture Topic | Ch. | Labs |
|--|-------------------|--|-----|--|
| 1 | Jan 8 -12 | Introduction – in lab Biological Diversity Phylogeny & Systematics | | No Lab – first week |
| 2 | Jan 15-19 | Darwinian Evolution Population Evolution | | Lab 1 –Phylogeny & Classification Prelab & Quiz |
| 3 | Jan 22-26 | Origin of Species Prokaryotes | | Lab 2: Evolution Prelab & Quiz |
| 4 | Jan 29 – Feb 2 | Protists | | Lab 3: Natural Selection Appendix 1 Prelab & Microscope Quiz |
| 5 | Feb 5-9 | Fungi | | Lab 4: Prokaryotes Prelab, Lab Quiz & post lab handin Bacterial Concept map |
| Feb. 8 & 9 Reading Break – Classes cancelled | | | | |
| 6 | Feb 12-16 | Lecture Midterm I Fungi | | Lab 5: Protists Prelab & post lab handin Protist Concept map Practice lab exam |
| 7 | Feb 19-23 | Kingdom Plantae Bryophytes | | Lab Exam I |
| 8 | Feb 26- Mar 2 | Seedless Vascular Plants Seed Plants | | Lab 6: Fungi Prelab & Quiz & post lab handin Key assignment |
| 9 | Mar 5-9 | Seed Plants | | Lab 7: Plants part I Quiz & postlab handin Concept map & lifecycles |
| 10 | Mar12 -16 | Lecture Midterm II Animal Diversity Invertebrates | | Lab 8: Plants part II Quiz & postlab handin Concept map & lifecycles |
| 11 | Mar 19-23 | Invertebrates | | Lab 9: & Lab 10: Animals I & II Quiz & postlab handin Concept map |
| 12 | Mar 26-30 | Vertebrates | | Lab 11: Animals III Quiz & postlab handin Concept map |
| 13 | Apr 2-6 | Vertebrates | | Lab Exam II |
| April 6 & 9 – College closed for Easter weekend | | | | |
| 14 | Apr 9-13 | Review | | No Lab scheduled |

CAMOSUN COLLEGE



**School of Arts & Science
Winter 2007 – Section 002
BIOL 124 Evolution & Biological Diversity**

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.

Instructor: Rosemary Mason
Phone: 370-3301

Location: Ewing 236
E-mail: masonr@camosun.bc.ca

Time and location:

| | | | |
|-----------|------------------|-------------|------|
| Lectures: | Wed, Thurs, Fri. | 1:30 – 2:20 | F200 |
| Lab: | Mon. (Sec. 02A) | 2:30 – 5:20 | F244 |
| | Tues. (Sec. 02B) | 2:30 – 5:20 | F244 |

Course Website: <http://masonr.disted.camosun.bc.ca/>

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

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.
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Basis of Student Assessment (Weighting)

| | | |
|---------------------|-----------------|-----|
| Lab Exam I | week of Feb. 19 | 15% |
| Lab Exam II | week of Apr. 2 | 15% |
| Midterm I | Feb. 14 | 15% |
| Midterm II | Mar. 12 | 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.

Intended Learning Outcomes

- 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
- 4) be able to discuss the nature of scientific knowledge; its limits and strengths, and how it is produced.

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.

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, Registrar's Office or the College web site at <http://www.camosun.bc.ca/learning-skills/index.html>

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. <http://www.camosun.bc.ca/policies/Education-Academic/E-2-Student-Services-&-Support/E-2.5.pdf>

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