

**COURSE OUTLINE**  
Grading Systems

---



**School of Arts & Science**

**BIOL 124 Evolution and Diversity**  
**Section 001 Summer 2009**

**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

|                |                                    |
|----------------|------------------------------------|
| <b>Section</b> | <b>001-A</b>                       |
| <b>Lecture</b> | M, Th 2:30-5:20pm<br>In Fisher 200 |
| <b>Lab</b>     | T, F 2:30-5:20 in F224             |

**1. Instructor Information**

Instructor: **Donna Ogden**, M.Sc.

Office hours: drop-in T, Th 1 - 2:15pm  
and by appointment if necessary

Office location: F 314 D  
Phone: 370-3516  
e-mail: [ogdend@camosun.bc.ca](mailto:ogdend@camosun.bc.ca)

**2. Intended Learning Outcomes**

At the end of the course the student will be able to:

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

*At the end of the course the student will be able to:*

**3. Required Materials**

- (a) Textbook: Campbell, N.A. and J.B. Reece. 2007. Biology 8th ed.

**COURSE OUTLINE**  
**Grading Systems**

---

(b) BIOL 124 Laboratory Manual

## COURSE OUTLINE

### Grading Systems

#### 4. Course Content and Schedule

The following tentative schedule is subject to change if deemed necessary by the instructor.  
Please note:

**Midterms are scheduled for the first lecture of the week, unless specified otherwise.**

| Wk | Dates       | Lecture<br>(chapter no.'s in brackets)  | Laboratory   |
|----|-------------|---|--|
| 1  | Jul 6- 10   | Course overview, scientific process, biodiversity, species concept, systematics, origin of life, geologic time scale (excerpts ch. 1, 24, 25, 26, 56) | Safety and Laboratory Procedures<br><br>Darwin movie |
|    |             | Theory & evidence of evolution (ch. 22)   | 1. Phylogeny and Classification                      |
| 2  | Jul 13 - 17 | Micro-evolution (ch. 23)  | 2. Evolution   |
|    |             | Macro-evolution (ch. 24)  | 3. Natural Selection<br>App.3: Microscopes           |
| 3  | Jul 20 - 24 | Prokaryotes (ch. 27)<br>Viruses (excerpt ch. 19)<br>Life cycles (excerpt ch. 13)  | <b>Microscope Quiz</b><br>5. Prokaryotes             |
|    |             | <b><u>MID-TERM I</u></b><br>Protists (ch. 28)<br>Plant evolution (ch. 29)   | 5. Prokaryotes cont.<br>6. Protists                  |
| 4  | Jul 27 - 31 | Seedless Plants (ch. 29)  | <b>LAB EXAM I</b>                                    |
|    |             | Seed Plants (ch. 30)  | 8. Seedless Plants                                   |
| 5  | Aug 3 - 7   | Fungi (ch. 31)  | 9. Seed Plants                                       |
|    |             | Animal evolution (ch. 25, 32)   | 7. Fungi   |
| 6  | Aug 10 - 14 | Invertebrates (ch. 33)  | 10. Invertebrates                                    |
|    |             | Invertebrates cont.   | 11. Invertebrates                                    |
| 7  | Aug 17 - 21 | Chordates/Vertebrates (ch. 34)  | 12. Chordates  |
|    |             | Vertebrates cont.   | <b>LAB EXAM II</b>                                   |

Final Exam during final exam period – scheduled by registrar (Aug 24/25)

## COURSE OUTLINE

### Grading Systems

---

#### 5. Basis of Student Assessment

Exams:

|             |     |
|-------------|-----|
| Midterm     | 20% |
| Lab Exam I  | 15% |
| Lab Exam II | 15% |
| Final Exam  | 30% |

Assignments & Quizzes 20%

Midterms and lab exams will be unit exams (i.e. not cumulative).

The final lecture exam will be cumulative, with proportionately greater emphasis on the last unit (animals). Midterm and final exams will be a mix of multiple choice and short answer/short essay questions. Lab exams will consist of a series of "stations" consisting of equipment and/or specimens, with accompanying questions testing both practical and theoretical knowledge. The final exam will be held after classes, during the final exam period – check CAMLINK for dates during the latter part of the semester. **Avoid making travel or work plans during the exam period, as you are expected to give priority to your exam schedule!**

#### 6. Grading System

The following percentage conversion to letter grade will be used:

|                |               |              |
|----------------|---------------|--------------|
| A+ = 90 - 100% | B = 73 - 76%  | D = 50 - 59% |
| A = 85 - 89%   | B- = 70 - 72% | F = 0 - 49%  |
| A- = 80 - 84%  | C+ = 65 - 69% |              |
| B+ = 77 - 79%  | C = 60 - 64%  |              |

*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](http://camosun.ca) for further information.*

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

#### STUDENT 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](http://www.camosun.bc.ca/divisions/pres/policy/2-education/2-5.html)

#### 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>

## COURSE OUTLINE

### Grading Systems

---

#### **ADDITIONAL INFORMATION**

**Academic Conduct:** Be sure that you are familiar not only with the Student Conduct Code (s.a.), but also with the General Department Policies, which are stated in the lab manual.

**Cheating or plagiarism will not be tolerated in any form, and may result in “0”.**

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

**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, laboratory data, changed exam dates etc.

**Exams:** Exams have to be written when scheduled. There are no make-up exams during the term. **A missed exam results in “0” except in case of documented emergency or illness** (doctor’s note required stating that student is too sick to attend class during a specified time period). Valid documentation of illness/emergency needs be received **within 1 week** of the illness/emergency. With a valid excuse, the weighting of the missed exam will be added to the final exam, along with additional questions on untested course material. **Please bring a pen and soft pencil to all exams. No programmable devices are allowed in exams.**

**Labs:** Lab assignments can only be handed in for labs actually attended (except in cases of documented illness/emergency). You are encouraged to discuss assignments with your lab partner, however, **each assignment has to be your individual work – beware of plagiarism.** It is absolutely necessary to read and mentally **work through each exercise before coming to lab.** Otherwise you may not be able to finish on time.

**Assignments:** Unless otherwise stated, all assignments are due at the ***beginning*** of the lab/class of the due date. The first late assignment/term is penalty-free – otherwise a **15%/day non-negotiable late penalty** (rounded to the nearest full mark) applies except in cases of documented illness/emergency. Late assignments will **not** be accepted after marked assignments have been returned to the rest of the class one week after the due date. 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 will probably 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** outside of scheduled class time for the completion of assignments and for general studying. Joining a study group can help this make more fun. Some **“study hints” are posted on the course web site on Desire to Learn**, and the college also offers study skill courses and individual consultations.

Lecture notes will be provided in point form and posted on the web for you to print prior to class. These should be used as a guideline, not as your sole source of information! You will need to write down additional notes of examples and explanations given during lecture. It is also recommended practice to transcribe these notes into a study-friendly format after each lecture, incorporating additional information from your textbook and other sources. Study these notes before the next class to prepare yourself for new material, which will often build on previously covered material.

Exam questions will be based on material covered or pointed out 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.

## **COURSE OUTLINE**

### **Grading Systems**

---

*New:*

*Students may not use recording devices in the classroom without the prior permission of the instructor. However, the instructor's permission is not required when the use of a recording device is sanctioned by the College's Resource Centre for Students with Disabilities in order to accommodate a student's disability and when the instructor has been provided with an instructor notification letter which specifies the use of a recording device. Recordings made in the classroom are for the student's personal use only, and distribution of recorded material is prohibited.*