

**COURSE OUTLINE**  
Grading Systems

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**School of Arts & Science**

**BIOL 124 Evolution and Diversity**  
**Section 001 Fall 2014**

**COURSE OUTLINE**

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***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

Section	001-A	001-B
Lecture	T, W, Th 4:30 - 5:20 pm in Y310	
Lab	M 9:30 am - 12:20 pm in F244	W 1:30 - 4:20 pm in F244
Office Hours (drop-in)	T, Th 3:00-4:00 pm, F 12:00-1:00 pm in F248D	

**1. Instructor Information**

Instructor: **Annette Dehalt**, M.Sc.

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web site: <http://faculty.camosun.ca/annettedehalt>

**2. Intended Learning Outcomes**

- identify and classify living organisms to their major taxonomic groupings, and to list their defining characteristics
- describe the major lines of evidence for evolution
- explain major topics in evolutionary theory
- 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. 2014. Biology Cdn. ed. (10<sup>th</sup>, 9<sup>th</sup> or 8<sup>th</sup> US ed. ok if student responsible for changes and updates)
- (b) BIOL 124 Laboratory Manual
- (c) Basic office supplies: pen, pencil, white-out, ruler, stapler...

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**4. Course Content and Schedule**

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

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

<b>Wk</b>	<b>Dates</b>	<b>Lecture</b> (chapter no.'s in brackets)	<b>Laboratory</b>
<b>1</b>	Sept. 2-5 <i>no class: M Sept. 1</i> <i>=Labor Day</i>	Scientific process, biodiversity, species concept, systematics, origin of life, geologic time scale ( <i>excerpts</i> of ch. 1,4,24,25,26,56)	Introduction Safety and laboratory procedures
<b>2</b>	Sept. 8-12	Theory & evidence of evolution (ch. 22)	1. Phylogeny and Classification Appendix: Microscopes
<b>3</b>	Sept. 15-19	Micro-evolution (ch. 23; <i>excerpt</i> of ch. 51; lab 2: Natural Selection)	<b><i>Field-trip: Mt. Doug</i></b>
<b>4</b>	Sept. 22-26	Speciation & Macro-evolution (ch. 24)	3. Prokaryotes
<b>5</b>	Sept. 29 - Oct. 3	<b><u>MID-TERM I</u></b> Prokaryotes (ch. 27) Viruses ( <i>excerpt</i> of ch. 19)	3. Prokaryotes <i>cont.</i> 4. Protists
<b>6</b>	Oct. 6-10	Life cycles ( <i>excerpt</i> of ch. 13) Protists (ch. 28)	<b><u>LAB EXAM I</u></b>
<b>7</b>	Oct. 14-17 <i>no class: M Oct. 13</i> <i>=Thanksgiving Day</i>	Plant evolution (ch. 29 & 30) Seedless Plants (ch. 29)	---No lab---
<b>8</b>	Oct. 20-24	Seedless Plants <i>cont.</i> Seed Plants (ch. 30)	5. Seedless Plants
<b>9</b>	Oct. 27-31	Seed Plants <i>cont.</i> Fungi (ch. 31)	6. Seed Plants
<b>10</b>	Nov. 3-7	<b><u>MID-TERM II</u></b> Animal evolution (ch. 25, 32)	7. Fungi
<b>11</b>	Nov. 10-14 <i>T Nov. 11=</i> <i>Remembrance Day</i>	Invertebrates (ch. 33)	---No lab---
<b>12</b>	Nov. 17-21	Invertebrates <i>cont.</i>	8. Invertebrates I 9. Invertebrates II: Annelids
<b>13</b>	Nov. 24-28	Vertebrates (ch. 34)	9. Invertebrates II <i>cont.</i> 10. Vertebrates
<b>14</b>	Dec. 1-5	Vertebrates <i>cont.</i>	<b><u>LAB EXAM II</u></b>

**FINAL EXAM** during final exam period – scheduled by registrar – check CAMLINK

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#### 5. Basis of Student Assessment

Exams:

Midterm I	15%
Midterm II	15%
Lab Exam I	10%
Lab Exam II	15%
Final Exam	30%

Assignments & Quizzes                      15%

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) not covered by previous midterms.

***Avoid making travel or work plans before knowing your final exam dates (CAMLINK), as you are expected to give priority to your exam schedule!***

Midterm and final exams will be a mix of multiple choice and short answer/short essay questions. Lab exams are set up as a series of "stations" consisting of equipment, data and/or specimens, with accompanying questions testing both practical and theoretical knowledge.

#### 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>

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#### **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 will result in “0”.** Students may not use recording devices in the classroom without authorization of the Disability Resource Centre; distribution of any recorded material is prohibited.

**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. **A missed exam results in “0” except in case of documented emergency or illness** (i.e. doctor’s note required stating that student is unable to attend class during a specified time period – must be submitted **within 1 week** following 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 course material of that unit. **Please bring a pen and soft pencil to all exams. No programmable devices are allowed in exams.**

**Labs:** It is necessary to read each exercise before coming to lab, correlate the material with lecture notes, and research any surfacing questions beforehand, in order to make best use of lab time. Instructions regarding field-trips will be provided in class.

**Assignments:** 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(s), however, **each assignment has to be your individual work – beware of plagiarism.** Unless otherwise stated, all assignments are due by the ***beginning*** of the lab/class of the due date. Marks will be based on all or on a portion of the entire assignment. The first late assignment/term is penalty-free – otherwise a **10%/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. If the assignment is more than one page, separate pages must be **stapled**. “Rough” drafts risk rejection and a subsequent late penalty or reduced marks.

**Study Habits:** You will probably find this course not very difficult, but surprisingly labor-intensive. Good (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**” and **review questions** are posted on the course web site.

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 referred to in class. However, studying additional details in the corresponding textbook sections and other sources 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.