

**COURSE OUTLINE**  
Grading Systems

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**CAMOSUN COLLEGE**  
*School of Arts & Science*  
*Department*

**BIOL 124 Evolution and Diversity**  
*Fall 2004*

**COURSE OUTLINE**

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The Approved Course Description is available on the web @

<http://www.camosun.bc.ca/divisions/registrar/calendar/courses/bio.htm>

Ω Please note: This outline will not be kept indefinitely. It is recommended students keep this outline for your records.

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**PREREQUISITES**

English 12 or assessment and Biology 12 with a B or BIOL 080 (or 100) with a B-.

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**1. Instructor Information**

- (a) Instructor: Ted Davis, *M.Sc., Ph.D.*
- (b) Office hours: Mon: 12:30-2:20 PM; Wed & Fri: 12:30-1:30 PM; Thurs: 1:00-2:00 PM.
- (c) Location: F340A
- (d) Phone: 370-3388
- (e) E-mail: [davist@camosun.bc.ca](mailto:davist@camosun.bc.ca)

**2. 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

**3. Required Materials**

- (a) Textbook: Campbell, N.A. and J. B. Reece. 2002. *Biology*. 6<sup>rd</sup> edition.
- (b) BIOL 124 Laboratory Manual

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#### 4. Course Content and Schedule

*Lecture:* Monday, Thursday, and Friday, 8:30-9:20 AM (Section 001), 10:30-11:20 AM (Section 002).

*Lab:* Section 001A: Tuesday, 9:00 – 11:20 AM. Section 001B: Wednesday, 9:00 – 11:20 AM.

Section 002A: Tuesday 2:30 – 5:20 PM. Section 002B: Wednesday 2:30 – 5:20 PM.

You should plan on a minimum of 2 hours of study outside of scheduled lecture time, on an ongoing basis, for each hour of lecture.

Week	Labs	Lecture
Sept 6 – Sept 10	Introduction, Lab safety; Taxonomy and species concepts. Introduction to microscopes	1) <b>No class (Labour Day – Sept 6)</b> 2) Reproductive isolating mechanisms and higher classification 3) Phylogenetic systematics and cladistic analysis
Sept 13 – Sept 17	Lab 3: Phylogenetics and classification	4) Prokaryotes 5) Prokaryotes 6) DNA, genes, and genetics
Sept 20 – Sept 24	Lab 5: Prokaryotes – part 1	7) Evolution 8) Evolution 9) Evolution
Sept 27 – Oct 1	Lab 5: Prokaryotes – part 2	10) Evolution 11) Evolution 12) Stats and Graphs
Oct 4 – Oct 8	Lab 2 Population genetics (Hardy-Weinberg) Lab 1 Natural Selection (woodlice)	13) Science and epistemology 14) Science and epistemology 15) <b>Midterm I (Oct 8)</b>
Oct 11 – Oct 15	<b>Lab Exam I</b>	16) <b>No Class (Thanksgiving – Oct 11)</b> 17) Protists 18) Protists
Oct 18 – Oct 22	Lab 6: Protists	19) Protists 20) Fungi 21) Seedless Plants
Oct 25 – Oct 29	Lab 7: Fungi Lab 8: Seedless Plants	22) Seedless Plants 23) Seed Plants 24) Seed Plants
Nov 1 – Nov 5	Lab 9: Seed plants	25) Plant Life Cycles 26) Plant Life Cycles 27) Invertebrates
Nov 8 – Nov 12	Lab 10a: Animals 1	28) <b>Midterm II (Nov 8)</b> 29) <b>No Class (Remembrance Day – Nov 11)</b> 30) Invertebrates
Nov 15 – Nov 19	Lab 10b: Animals 2	31) Invertebrates 32) Invertebrates 33) Invertebrates
Nov 22 – Nov 26	Lab 11a: Animals 3 (except chordates)	34) Invertebrates 35) Vertebrates 36) Vertebrates
Nov 29 – Dec 3	Lab 11b: Animals 4 (chordates)	37) Vertebrates 38) Vertebrates 39) Vertebrates
Dec 6 – Dec 10	<b>Lab Exam II</b>	40) Biodiversity 41) Biodiversity 42) Biodiversity

**Final examination:** December 13-21 – **DO NOT MAKE OTHER PLANS FOR THIS PERIOD!!!**

Midterms I and II and the Lab Exams will be unit exams.  
The final lecture exam will be cumulative.

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#### 5. Basis of Student Assessment (Weighting)

a) Lab Exam I	12.5%
b) Midterm I	15%
c) Midterm II	15%
d) Lab Exam II	12.5%
e) Assignments/quizzes	20%
f) Final Exam	25%

#### **ADDITIONAL INFORMATION**

*Be sure that you are familiar with the General Department Policies, which are stated in the lab manual. These policies cover absenteeism, late assignments (but see below), attendance, exam scheduling, plagiarism as well as other topics and 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.*

#### **ATTENDANCE**

**You are expected to attend all classes.** 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**. Also, if you miss a class or are late, you are very likely to miss a handout, assignment or other essential information. Classes begin on time, so don't be late! It is your responsibility to obtain this material from either the instructor or other students. **Laboratory attendance is mandatory. 10% of the lab mark will be deducted for each unexcused lab absence.**

#### 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 = 0.0 - 49%
A- = 85 - 89%	C+ = 65 - 69%	
B+ = 80 - 84%	C = 60 - 64%	

#### **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>

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