CAMOSUN COLLEGE
School of Arts & Science
Biology Department

BIOL 102 Non-Majors Biology 2
Winter 2005 – Sections 001 and 002

COURSE OUTLINE

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.*

PREREQUISITES

English 12 or assessment. Math 10 recommended. Students going on in Sciences will require further mathematics. Note: Students who have BIOL 080 without BIOL 060 or Biology 11 should take BIOL 102 to complete their 2 semesters of preparatory Biology for Majors courses.

1. Instructor Information

(a) Instructor: Ted Davis, *M.Sc., Ph.D.*
(b) Office hours: TBA
(c) Location: F340A
(d) Phone: 370-3388
(e) E-mail: 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 the mechanics of natural selection and speciation
4) be able to discuss the nature of scientific knowledge; its limits and strengths, and how it is produced
5) be able to explain basic concepts in population and community ecology
6) be able to recognize and explain the major threats to biodiversity and ecosystem processes, and ways in which these threats might be mitigated

3. Required Materials

(a) Textbook: Johnson, G.B. 2003. The Living World. 3rd edition. McGraw Hill. [or the 2nd edition]

(b) BIOL 102 Laboratory Manual

4. Course Content and Schedule

001: Lecture: Tu, W, & F, 9:30-10:20 AM. Lab: 001A, M, 9:30-12:20 PM; 001B, M, 2:30-5:20 PM.
002: Lecture: Tu, W, & Th, 4:30-5:20 PM. Lab: 002A, Th, 9:30-12:20 PM; 002B, Th, 1:00-3:50 PM.

You should plan on a minimum of 6 hours outside of scheduled class time for the completion of assignments and for general studying.

Week	Labs	*Lecture*
1	Introduction Lab 11: Microscopes	• Basic chemistry I • Basic chemistry II • DNA, genes, and genetics
2	Lab 1: Pop^n growth – set up Lab 2: Soil – week 1 Lab 4: Set up Bottle Ecology	• Taxonomy, species concepts • Viruses and Bacteria • Protists I
3	Lab 1: Pop^n growth – data Lab 2: Soil – week 2 Lab 5: Lichen Chromatography Lab 7 Protists and Fungi Lab 4: Examine Bottle Ecology	• Protists II • Fungi • Plants I
4	Lab 1: Pop^n growth – data Lab 4: Examine Bottle Ecology Lab 8: Plants	• Plants II • Origin of Life • **Midterm I**
5	Lab 1: Pop^n growth – data Lab 4: Examine Bottle Ecology **No Labs this week**	• Invertebrates I • Invertebrates II • **Reading Break**
6	Lab 1: Pop^n growth – data Lab 9: Animals I Lab 4: Examine Bottle Ecology	• Invertebrates III • Vertebrates I • Vertebrates II
7	Lab 1: Pop^n growth – data Lab 9: Animals II Lab 4: Examine Bottle Ecology Review for Lab Exam	• Vertebrates III • Science I • Science II
8	**Lab Exam I** Lab 1: Pop^n growth – data Lab 4: Examine Bottle Ecology	• Darwin's revolution • *Beyond Genesis* • Evolution I
9	Lab 1: Pop^n growth – data Lab 4: Examine Bottle Ecology Lab 6: Adaptation Lab 13: Evolution	• Evolution II • Microevolution • Macroevolution
10	Lab 1: Pop^n growth – terminate Lab 4: Terminate Bottle Ecology Lab 12: Graphs, and statistics	• **Midterm II** • Population Ecology I • Population Ecology II
11	Lab 14: Mark recapture Lab 15: Predation	• Interspecific interactions • Community Ecology I • Community Ecology II
12	**No Labs this week**	• Biodiversity and Ecosystem Services • Human Demographics & Global Climate Change • Threats to Biodiversity I
13	Lab 10: Field Trip (Mt. Douglas)	• Threats to Biodiversity II • Overexploitation I • Overexploitation II
14	**Lab Exam II**	• Exotic Species and Disease • Problems of Small Populations • Reserve Design

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

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.

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