

**School of Arts & Science
DEPT**

**Course Abbreviation, Number & Title
Term & Year**

**BIOL 102 Non-Majors Biology 2
Winter 2004 – Section 004**

COURSE OUTLINE

The Approved Course Description is available on the web @ _____

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: Don MacRae
- (b) Office hours: TBA
- (c) Location: F346A
- (d) Phone: 370-3437
- (e) E-mail: dmacrae@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
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4. Course Content and Schedule

You should plan on a minimum of 1 hr of studying for EACH hour of lecture. Also budget 1-3 hr/wk for completion of assignments.

Week	Date	Labs	Lecture
1	Jan 5-9	Lab Safety, Introduction	Taxonomy, species concepts Scientific method
2	Jan 12-16	Lab 1: Microscopes	DNA, genes, and genetics Viruses and Bacteria
3	Jan 19-23	Lab 2: Set up Bottle Ecology Lab 3: Set up Lab 3	Protists Fungi
4	Jan 26-30	Lab 3 Soil diversity Lab 2: Examine Bottle Ecology	Plants Midterm I
5	Feb 2-6	Lab 4 Protist and Fungi diversity Lab 2: Examine Bottle Ecology	Invertebrates
6	Feb 9-11	Lab 5: Plant diversity Lab 2: Examine Bottle Ecology	Vertebrates <i>Reading Break</i>
7	Feb 16-20	Lab 6: Animal diversity	Evolution
8	Feb 23-27	Lab 6: Animal diversity Lab 2: Examine Bottle Ecology	Evolution
9	Mar 1-5	Lab Exam I	Population Ecology Midterm II
10	Mar 8-12	Lab 7: Evolution Lab 8: Graphs, means, distributions, and statistics Lab 2: Examine Bottle Ecology	Community Ecology
11	Mar 15-19	Lab 9: Mark recapture Lab 2: Examine Bottle Ecology	Biodiversity
12	Mar 22-26	Lab 2: Examine Bottle Ecology - final	Biodiversity
13	Mar 29- April 4	Lab 11: Predation	Ecosystems
14	April 5-8	Lab Exam II	Ecosystems

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

5. Basis of Student Assessment (Weighting)

Assignments and quizzes	25%
Lab Exam 1	12.5%
Lab Exam 2	12.5%
Mid-term Exam 1	10%
Mid-term Exam 2	15%
Final Exam	25%

6. Grading System

(If any changes are made to this part, then the Approved Course description must also be changed and sent through the approval process.)

(Insert appropriate approved grading system – see last page of this template.)

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%	

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

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