COURSE OUTLINE
Grading Systems

School of Arts & Science

BIOL 102 Non-Majors Biology II
Section 001 Winter 2013

COURSE OUTLINE

An introduction to biological diversity, evolution, ecology, scientific knowledge, and the biodiversity crisis. Includes a survey of the major taxonomic groups of living organisms, the evidence for evolution, natural selection, the nature of scientific knowledge, and the impact of humans on the ecology of populations, communities and ecosystems.

Prerequisites: English 12 or assessment. *Math 10 recommended*.

1. Instructor Information

Instructor:	Geoff Haywood M.Sc., Ph.D.		
Office Hours:	9.00 – 10.00 AM Wed, Thur.		
Location:	F246		
Phone:	250-370-3196	Alternative Phone:	
Email:	haywoodg@camosun.bc.ca		
Website:	D2L (No emails to D2L please)		

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 the mechanisms of natural selection and speciation
- discuss the nature of scientific knowledge, its limits and strengths, and how it is produced
- explain basic concepts in population and ecosystem processes, and ways in which these threats might be mitigated
- 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: Audesirk et. al., 2007. **Biology: Life on Earth *with Physiology***, 8th or 9th ed. Pearson/Prentice Hall.or **Biology** Campbell 9th Ed.

(b) **BIOL 102 Laboratory Manual**

(c) *optional:* Garrett. 2007. **Get Ready For Biology**, 7th ed. Pearson/Benjamin Cummings

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, (Wednesday) unless otherwise stated.

Wk #	Lecture dates	Lecture (chapter no.'s in brackets)	Lab date	Lab/Field
1	Jan 9-10	Introduction, Science (1), Principles of Evolution (14)	Jan 7	Safety and Laboratory Procedures
2	Jan 16-17	Micro-evolution (15), Speciation/Macro-evolution (16)	Jan 14	1. Science, Graphs, Stats
3	Jan 23-24	History of Life (17) Extinction (16,17) Systematics (18)	Jan 21	2. Evolution
4	Jan 30-31	**MIDTERM I** Viruses, Bacteria (19)	Jan 28	3. Microscopes
5	Feb 6-7	Protists (20)	Feb 4	4. Bacteria, Protists, Fungi
6	Feb 13-14	Protists (20)	**Feb 11**	**No Lab - Family Day**
7	Feb 20 only **Reading Break**	Plants (21) Fungi (22) Animal Evolution (23)	**Feb 18**	**LAB EXAM I**
8	Feb 27-28	Invertebrates (23) Aquatic Vertebrates (24)	Feb 25	5. Plants
9	Mar 6-7	**MIDTERM II** Terrestrial Vertebrates (24) Human Evolution (17)	Mar 4	6. Animals
10	Mar 13-14 *Mar 10 last d2W*	Animal Behavior (25)	Mar 11	7. Field Trip to Sidney Aquarium
11	Mar 20-21	Population Ecology (26)	Mar 18	8. Ecological Simulations
12	Mar 27-28	Community Ecology (27)	Mar 25	9. Field Trip Mt. Doug
13	Apr 3-4	Ecosystem Ecology (28,29)	**Apr 1**	***No lab (Easter Monday)***
14	Apr 10-11	Biodiversity Crisis (30)	**Apr 8**	**LAB EXAM II**

check CAMLINK!

Avoid making travel or work plans during the exam period, as you are expected to give priority to your exam schedule!

Exams:	
Midterm I	10%
Midterm II	20%
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 (ecology) not covered by previous midterms. 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 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

LEARNING SUPPORT AND SERVICES FOR STUDENTS

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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

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".**
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 course material of that unit . **Please bring a pen and soft pencil to all exams. No programmable devices are allowed in exams.**

Labs: You need to attend labs and lab exams during your assigned section (A or B). Switching between sections on a permanent or temporary basis requires instructor's permission. 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, annoy your lab partner, or flunk a pre-lab pop quiz.

Assignments: Assignments will be given on the Thursday and are due for the following Wednesday. If handed in on that day they will be rated at 100% of the marks**. Late assignments will lose a 20% rating per day late – thus if handed in the following Monday will only be marked to a total of 60%. It is important to meet deadlines!**

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**, and the college also offers study skill courses and individual consultations.

Exam questions will be based on lecture 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.