



**School of Arts & Science
BIOLOGY DEPARTMENT**

**BIOL 102-01
Non-Majors Biology 2
2008W**

COURSE OUTLINE

The Approved Course Description is available on the web @ _____

Ω Please note: this outline will be electronically stored for five (5) years only.
It is strongly recommended students keep this outline for your records.

1. Instructor Information

(a)	Instructor:	Alison Moran		
(b)	Office Hours:	F 3:00-5:00		
(c)	Location:	Ewing 304		
(d)	Phone:	370-3984	Alternative Phone:	
(e)	Email:	MoranA@camosun.bc.ca		
(f)	Website:	D2L: Biology 102: Non-Majors Biology II (Moran 001)		

2. Intended Learning Outcomes

Upon completion of this course the student will be able to:

1. Identify and classify living organisms to their major taxonomic groupings, and to list their defining characteristics.
2. Describe the major lines of evidence for evolution.
3. Explain the mechanics of natural selection and speciation.
4. Discuss the nature of scientific knowledge; its limits and strengths, and how it is produced.
5. Explain basic concepts in population and community ecology.
6. Recognize and explain the major threats to biodiversity and ecosystem processes, and ways in which these threats might be mitigated.

3. Required Materials

- (a) Texts: Audersirk, T., Audersirk, G., Byers, B.E. 2005. **Biology, Life on Earth with Physiology**. 8th edition. Prentice Hall
- (b) Other: **BIOL 102 Laboratory Manual**

4. Course Content and Schedule

The following schedule is tentative and subject to change if deemed necessary by the instructor.
 Note: The mid-term is scheduled for the first lecture of the week, unless specified otherwise.

Wk	Dates	Lecture (chapter #s in brackets)	Lab/Field
1	Jan. 7	Introduction, Science (1), Principles of Evolution (14)	Safety and Laboratory Procedures
2	Jan. 14	Micro-evolution (15), Macro-evolution/Speciation (16)	7. Science, Graphs, Statistics
3	Jan 21	History of Life (17) Extinction (16,17)	6. Evolution
4	Jan. 28	Systematics (18) Viruses, Bacteria (19)	1. Microscopes
5	Feb. 4	Protists (20) Fungi (22)	2. Bacteria, Protists, Fungi
6	Feb. 11	Plants (21) Animal Evolution (23) <i>(Feb 14/15 Reading break)</i>	LAB EXAM I
7	Feb. 18	MIDTERM (1st lecture) Invertebrates (23) Aquatic Vertebrates (24)	3. Plants
8	Feb. 25	Terrestrial Vertebrates (24) Human Evolution (17)	4. Animals
9	Mar. 3	Animal Behavior (25)	5. Diversity Review
10	Mar. 10	Population Ecology (26)	8. Ecological Simulations
11	Mar. 17	Community Ecology (27)	9. Field-trip: Mt. Doug
12	Mar. 24	Ecosystem Ecology (28,29) <i>(Mar. 24 - Easter Monday)</i>	
13	Mar. 31	Biodiversity Crisis (30)	Seminar: Oral Group Presentations
14	Apr. 7	Biodiversity Crisis cont.	LAB EXAM II

Exam Period Apr.14-28 (scheduled by registrar) - check CAMLINK. **Do not book flights!**

5. Basis of Student Assessment (Weighting)

Class participation / assignments / labs / quizzes 30%

Exams:

Midterm	15%
Lab Exam I	15%
Lab Exam II	15%

Final Exam 25%

Science is a language and to give it meaning we need to use and practice its vocabulary. As such, class participation is a key component of this course. It will take the form of questions, presentations and discussions. At the end of each class, you will be given the class participation question for the following lesson. Students will be asked to present or explain their answers at the beginning of the next class. Each week one group will present a special assignment and design questions on their topic for the rest of the class to answer. You will also have regular on-line (open book) quizzes that will run through the D2L site.

Please bring a pen *and* pencil to all class and lab exams.

6. Grading System

Standard Grading System (GPA)

Percentage	Grade	Description	Grade Point Equivalency
90-100	A+		9
85-89	A		8
80-84	A-		7
77-79	B+		6
73-76	B		5
70-72	B-		4
65-69	C+		3
60-64	C		2
50-59	D	Minimum level of achievement for which credit is granted; a course with a "D" grade cannot be used as a prerequisite.	1
0-49	F	Minimum level has not been achieved.	0

Temporary Grades

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 information on conversion to final grades, and for additional information on student record and transcript notations.

Temporary Grade	Description
I	<i>Incomplete</i> : A temporary grade assigned when the requirements of a course have not yet been completed due to hardship or extenuating circumstances, such as illness or death in the family.

IP	<i>In progress:</i> A temporary grade assigned for courses that, due to design may require a further enrollment in the same course. No more than two IP grades will be assigned for the same course. <i>(For these courses a final grade will be assigned to either the 3rd course attempt or at the point of course completion.)</i>
CW	<i>Compulsory Withdrawal:</i> A temporary grade assigned by a Dean when an instructor, after documenting the prescriptive strategies applied and consulting with peers, deems that a student is unsafe to self or others and must be removed from the lab, practicum, worksite, or field placement.

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, at Student Services or the College web site at camosun.ca.

STUDENT CONDUCT POLICY

There is a Student Conduct Policy **which includes plagiarism**. It is the student's responsibility to become familiar with the content of this policy. The policy is available in each School Administration Office, at Student Services and on the College web site in the Policy Section.

ADDITIONAL INFORMATION

General:

Be sure that you are familiar with the General Department Policies, which are stated in the lab manual. The student conduct code will also be observed.

Please note: Plagiarism will not be tolerated in any form, and may result in a "0".

No programmable devices are allowed in exams.

Each student is required to sign a Laboratory Safety Contract and give it to the instructor prior to commencing laboratory work in the course.

Attendance:

You are expected to attend all classes, and be on time. It is your responsibility to acquire *all* information given during a class missed, incl. notes, hand-outs, assignments, changed exam dates etc.

Missed exams or quizzes cannot be made up except in case of documented illness (doctor's note required). Lab attendance is *mandatory*.

Do not book trips until the exam schedule is finalized.

Labs:

A **1% final grade penalty** applies to any unexcused absence from lab. Frequent late attendance may count as an absence. Should you miss roll call at the beginning of lab, please identify yourself to the instructor as “late” or you may remain marked “absent.” 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.

It is *absolutely* necessary to read through each exercise before coming to lab. Otherwise you may not be able to finish on time and may not be able to complete your lab correctly. Please bring a pencil and a few sheets of unlined and graph paper, in case drawings are required.

Assignments:

Unless otherwise stated, all assignments are due at the **beginning** of the lab/class of the due date. There is a **10%/day late penalty**. The format is expected to be professional, i.e. a neat, legible, clean copy. “Rough” drafts risk rejection and a subsequent late penalty. If the assignment is more than one page, **separate pages must be stapled** before you come to class.

Study Habits:

Biology 102 will require regular study and preparation ahead of each class. It is valuable to review your notes within 24 hours of each class, as that is a proven means of improving memory and retention of information. You should expect to spend at least 6 hours outside of scheduled class time in the preparation of assignments, answering on-line quizzes and for general studying. Study groups are a highly effective way of learning and the great discussions that you have in these groups just make biology even better!

The course will be administered via a D2L site. This site can be accessed from the Camosun homepage via online services and then online courses. Lecture notes and animations will be provided on the D2L site in Power Point. You may prefer to download lectures ahead of time and then write your notes directly onto copies of the slides. Lecture notes must not be considered your sole source of information! They are merely a summary of the main points and you will need to write down additional information in each lecture. In addition, not all details can be covered in a lecture, and you may be required to prepare textbook material that is not discussed specifically in class. Please feel free to email me with questions or come and see me after class or during office hours. If a question is urgent, a specific appointment can be made. Please conduct all course-related correspondence to me through the D2L site. In addition, you will have access to other class members course emails and can contact them via the site. Discussion boards will be provided and as many of you are considering becoming teachers, I encourage you to discuss ways that you might bring the information we are discussing to different age groups of students. This will provide a forum for you to share and develop your pedagogical ideas.