



**School of Arts & Science  
BIOLOGY DEPARTMENT**

**BIOL 102-02  
Non-Majors Biology 2  
2006F**

## COURSE OUTLINE

The Approved Course Description is available on the web @  
<http://camosun.bc.ca/calendar/>

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:	Ted Davis, <i>M.Sc., Ph.D.</i>		
(b)	Office Hours:	M Th & F -10:30-11:30; Tu -1:00-2:00; W – 3:30-4:30		
(c)	Location:	F340A		
(d)	Phone:	370-3388	Alternative Phone:	
(e)	Email:	davist@camosun.bc.ca		
(f)	Website:			

### 2. Intended Learning Outcomes

*(No changes are to be made to this section, unless the Approved Course Description has been forwarded through EDCO for approval.)*

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	1) Textbook: Audesirk, Audesirk, and Byers. 2005. Biology: Life on Earth. 7 <sup>th</sup> ed. Prentice Hall. 2) BIOL 102 Laboratory Manual
(b)	Other	

### 4. Course Content and Schedule

(Can include: class hours, lab hours, out of class requirements and/or dates for quizzes, exams, lectures, labs, seminars, practicums, etc.)

Lecture: Wed, Th & Fri, 2:30-3:20 PM. Lab: 002A, Mon, 2:30-5:20 PM; 002B, Tue, 2:30-5:20 PM. You should plan on a *minimum* of 6 hours per week outside of scheduled class time for the completion of assignments and for general studying.

Week	Dates	Lab	Lecture
1	Sept 5 – Sept 6	<b>No lab this week.</b>	1) Introduction 2) Basic chemistry I 3) Basic chemistry II
2	Sept 11 – Sept 15	Lab 9: Field Trip (Mt. Douglas)	4) DNA, genes, and genetics 5) Taxonomy 6) Viruses and bacteria
3	Sept 18 – Sept 22	Lab 1: Microscopes Lab Safety	7) Protists I 8) Protists II 9) Fungi
4	Sept 25 – Sept 29	Lab 2: Bacteria, Protists Fungi	10) Plants I 11) Plants II 12) Invertebrates I
5	Oct 2 – Oct 6	Lab 3: Plants Midterm I Review	13) Invertebrates II 14) Invertebrates III 15) <b>Midterm I (Oct 6)</b> Chemistry to plants
6	Oct 9 – Oct 13	<b>No lab this week – Thanksgiving (Oct 9)</b>	16) Vertebrates 17) Vertebrates 18) Vertebrates
7	Oct 16 – Oct 20	Lab 4: Animals	19) Origin of Life 20) Evolution I 21) Evolution II
8	Oct 23 – Oct 27	Lab 5: Diversity Review	22) Darwin's revolution I 23) Darwin's revolution II 24) <i>Beyond Genesis</i> – film
9	Oct 30 – Nov 3	<b>Lab Exam I</b>	25) Microevolution 26) Macroevolution 27) Science I
10	Nov 6 – Nov 10	Lab 6: Evolution; Midterm II Review	28) Science II 29) Pop ecology I 30) <b>Midterm II (Nov 10)</b> Invertebrates to macroevolution
11	Nov 13 – Nov 17	31) <b>No Lab this week – Remembrance Day (Nov 13)</b>	32) Pop Ecology II 33) Interspecific interactions 34) Community Ecology I
12	Nov 20 – Nov 24	Lab 7: Science, graphs, statistics	35) Community Ecology II 36) Biodiversity and Ecosystem Services 37) Threats to Biodiversity I Human demographics
13	Nov 27 – Dec 1	Lab 8: Ecological simulations	38) Threats to Biodiversity II 39) Threats to Biodiversity III 40) Threats to Biodiversity IV
14	Dec 4 – Dec 8	<b>Lab Exam II</b>	41) Threats to Biodiversity V 42) Threats to Biodiversity VI 43) Problems of small populations

## 5. Basis of Student Assessment (Weighting)

(Should be linked directly to learning outcomes.)

(a)	Assignments	Assignments/quizzes	20%
(b)	Quizzes		

(c)	Exams	Lab Exam I	12.5%
		Midterm I	15%
		Midterm II	15%
		Lab Exam II	12.5%
		Final Exam	25%
(d)	Other (eg. Attendance, Project, Group Work)		

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

## 6. Grading System

(No changes are to be made to this section, unless the Approved Course Description has been forwarded through EDCO for approval.)

### Standard Grading System (GPA)

Percentage	Grade	Description	Grade Point Equivalency
95-100	A+		9
90-94	A		8
85-89	A-		7
80-84	B+		6
75-79	B		5
70-74	B-		4
65-69	C+		3
60-64	C		2
50-59	D		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 at [camosun.ca](http://camosun.ca) or 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 are designed to have an anticipated enrollment that extends beyond one term. No more than two IP grades will be assigned for the same course.
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.

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](http://camosun.ca) for information on conversion to final grades, and for additional information on student record and transcript notations.

## 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](http://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.

English 12 or assessment. Math 10 recommended

*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.