



School of Arts & Science  
BIOL 124 Evolution and Diversity  
Fall 2016

COURSE OUTLINE

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The course description is online @ [Camosun's calendar](#). The College stores this outline for five (5) years. It is **strongly recommended** you keep a copy of this outline with your academic records. You will need this outline for any future application/s for transfer credit/s to other colleges/universities.

Instructor:	W. Donald MacRae
Office Hours:	Mon – Thurs (8:30-9:30) or by arrangement
Location:	F346A
Phone:	370-3437
Email:	<a href="mailto:dmacrae@camosun.bc.ca">dmacrae@camosun.bc.ca</a>

### 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 major topics in evolutionary theory.
4. Discuss the nature of scientific knowledge in biology, its limits and strengths, and how it is documented.

### Required Materials

1. **Textbook:** Campbell Biology, Canadian Edition 2015 or comparable textbook.
2. **Lab Manual:** Biology 124 Lab Manual (Fall 2016), Camosun College.

### Course Content and Schedule

<b>Lectures:</b>	Mon (Y211) 9:30 AM – 10:50AM Thur (Y211) 9:30 AM – 10:50AM
<b>Lab Section A:</b>	Wed (F244) 1:30 PM – 4:20 PM
<b>Lab Section B:</b>	Wed (F224) 9:30 AM – 12:20 PM

## Basis of Student Assessment (Weighting)

Tests*	15%
Lab Exam 1	10%
Lab Exam 2	10%
Assignments*	25%
Exam 1	20%
Exam 2 (Final Exam)	20%
Record of Attendance**	

\*Tests and Assignments will be based on work carried out in groups. If a student does not participate in all group work the missing portion of their mark in these categories will be based on the marks that they obtain on Exams 1 and 2.

\*\*Each student is asked to keep a record of the dates of all classes, whether or not they attended and, for any classes not attended, a brief explanation.

## Course Content and Schedule

Wk		Lecture	Lab
1	Wed Sept 7		Course Intro (No Lab)
	Thurs Sept 9	The History of Life on Earth (Ch 25)	
2	Mon Sept 12	Phylogeny (Ch 26)	
	Wed Sept 14		1. Phylogeny
	Thurs Sept 15	Darwinian Revolution (Ch 22)	
3	Mon Sept 19	Darwinian Revolution (Ch 22)	
	Wed Sept 21		2. Field-trip: Mt. Doug
	Thurs Sept 22	Prokaryotes (Ch 27)	
4	Mon Sept 26	Prokaryotes (Ch 27)	
	Wed Sept 28		3. Bacteria
	Thurs Sept 29	Origin of Species (Ch 24)	
5	Mon Oct 3	Protists (Ch 28)	
	Wed Oct 5		3. Bacteria & 4. Protists
	Thurs Oct 6	Protists (Ch 28)	
6	Wed Oct 12		No Lab
	Thurs Oct 13	<b>Test 1</b>	
7	Mon Oct 17	Species and Populations (Ch 23 and 24)	
	Wed Oct 19		Lab Exam 1
	Thurs Oct 20	Seedless Plants (Ch 29)	
8	Mon Oct 24	Seedless Plants (Ch 29)	
	Wed Oct 26		5. Seedless Plants
	Thurs Oct 27	Seed Plants (Ch 30)	
9	Mon Oct 31	Seed Plants (Ch 30)	
	Wed Nov 2		6. Seed Plants
	Thurs Nov 3	Seed Plants (Ch 30)	
10	Mon Nov 7	Fungi (Ch 31)	
	Wed Nov 9		7. Fungi
	Thurs Nov 10	Animal Evolution (Ch 32)	
11	Mon Nov 14	Invertebrates (Ch 33)	
	Wed Nov 16		8. Invertebrates I
	Thurs Nov 17	Invertebrates (Ch 33)	
12	Mon Nov 21	Invertebrates (Ch 33)	
	Wed Nov 23		9. Invertebrates II
	Thurs Nov 24	Vertebrates (Ch 34)	
13	Mon Nov 28	Vertebrates (Ch 34)	
	Wed Nov 30		10. Chordates
	Thurs Dec 1	Vertebrates (Ch 34)	
14	Mon Dec 5	Vertebrates (Ch 34)	
	Wed Dec 7		Lab Exam II
	Thurs Dec 8		

## 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](http://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 3<sup>rd</sup> 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.

## 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 the College web site in the Policy Section.