



**CAMOSUN COLLEGE**  
**School of Arts & Science**  
**Department of Biology**

**BIOL-124-001/002**  
**Evolution and Diversity**  
**WINTER 2020**

**COURSE OUTLINE**

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The course description is online @ <http://camosun.ca/learn/calendar/current/web/biol.html>

Ω Please note: This outline will not be kept indefinitely. It is recommended students keep this outline for their records, especially to assist in transfer credit to post-secondary institutions.

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**1. Instructor Information**

(a) Instructor	David Raju	
(b) Office hours	TBA	
(c) Location	Fisher 342A	
(d) Phone		Alternative: _____
(e) E-mail	<a href="mailto:raju@camosun.bc.ca">raju@camosun.bc.ca</a>	
(f) Website		

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

**3. Required Materials**

- (a) Required materials will be provided

**4. Course Content and Schedule**

Biology 001A/B Classes Tue (8:30-9:50AM in F266) and Fri (8:30-9:50AM in F268)  
Biology 001A Lab Thu 9:30-12:20 in Fisher 244  
Biology 001B Lab Thu 1:30-4:20PM in Fisher 244

Biology 002A/B Classes Tue (1:30-2:50PM in F268) and Fri (10:00-11:20AM in F268)  
Biology 002A Lab Wed 1:30-4:20PM in Fisher 244  
Biology 002B Lab Wed 9:30-12:20 in Fisher 244

<b>DATE and DAYS</b>	<b>LAB/CASE/ACTIVITY/EXAM</b>	<b>PERCENT of GRADE</b>
Jan 7 (T)	1.INTRODUCTION	/2.5
8,9 (W, Th)	2.TAXONOMY & PHYLOGENY LAB	/2.5
10 (F)	18. SYSTEMATICS WORK	/2.5
14 (T)	3.KIN SELECTION CASE	/2.5
15, 16 (W, Th)	8.CLAM DISSECTION LAB	/2.5
17 (F)	4.PROKARYOTE STUDY	/2.5
21 (T)	6.SEXUAL SELECTION CASE	/2.5
22,23 (W, Th)	5.PLANT SEED LAB	/2.5
24 (F)	7.MICROSCOPIC PROTOZOAN STUDY	/2.5
28 (T)	9.NATURAL SELECTION CASE	/2.5
29,30 (W, Th)	14.SQUID DISSECTION LAB	/2.5
31 (F)	10.MACROSCOPIC PROTOZOAN STUDY	/2.5
Feb 4 (T)	15.FISH PLASTICITY CASE	/2.5
5,6 (W, Th)	29. PLANARIA LAB	/2.5
7 (F)	16.FUNGI STUDY	/2.5
11 (T)	12.EVOLUTION IN GENERAL 13.EVOLUTION TODAY	/2.5
12,13 (W, Th)	20.FISH DISSECTION LAB	/2.5
14 (F)	36.ORGANISM LIFE CYCLES	/2.5
25 (T)	22.BASIDIOMYCETE STUDY	/2.5
26,27 (W,Th)	11.SOWBUG LAB	/2.5
28 (F)	27.BIODIVERSITY CASE 19.FUNGI IN SOCIETY	/2.5
March 3 (T)	21.INSECT BEHAVIOUR CASE	/2.5
4,5 (W, Th)	26.TOAD DISSECTION LAB	/2.5
6 (F)	25.INVERTEBRATE STUDY	/2.5
10 (T)	24.FROG DEVELOPMENT CASE	/2.5
11,12 (W,Th)	23.OWL PELLET LAB	/2.5
13 (F)	28.CHORDATE STUDY	/2.5
17 (T)	30.SPECIES AS ENVIRONMENTAL INDICATOR CASE	/2.5

18,19 (W, Th)	32. BIRD DISSECTION LAB	/2.5
20 (F)	31.PLANT STUDY	/2.5
24 (T)	33.ECOLOGY AND DIVERSITY CASE	/2.5
25,26 (W, Th)	17.DAPHNIA LAB	/2.5
27 (F)	40.REPTILE DISSECTION	/2.5
31 (T)	37.COMMERCIAL FISH	/2.5
April 1,2 (W, Th)	38.INSECT ANATOMY LAB	/2.5
3 (F)	34.DIVERSITY SCAVENGER HUNT	/2.5
7 (T)	39.CONSERVATION CASE	/2.5
8, 9 (W, Th)	35. MAMMAL DISSECTION LAB	/2.5

**FINAL GRADE= /100**

## 5. Basis of Student Assessment (Weighting)

Labs/Cases/Activities/Exams =  $40 \times 2.5 = 100\%$

## 6. Grading System

Standard Grading System (GPA)

Competency Based Grading System

## 7. Recommended Materials to Assist Students to Succeed Throughout the Course

## 8. College Supports, Services and Policies



**Immediate, Urgent, or Emergency Support**

If you or someone you know requires immediate, urgent, or emergency support (e.g. illness, injury, thoughts of suicide, sexual assault, etc.), **SEEK HELP**. Resource contacts @ <http://camosun.ca/about/mental-health/emergency.html> or <http://camosun.ca/services/sexual-violence/get-support.html#urgent>

### College Services

Camosun offers a variety of health and academic support services, including counselling, dental, disability resource centre, help centre, learning skills, sexual violence support & education, library, and writing centre. For more information on each of these services, visit the **STUDENT SERVICES** link on the College website at <http://camosun.ca/>

### College Policies

Camosun strives to provide clear, transparent, and easily accessible policies that exemplify the college's commitment to life-changing learning. It is the student's responsibility to become familiar with the content of College policies. Policies are available on the College website at <http://camosun.ca/about/policies/>. Education and academic policies include, but are not limited to, Academic Progress, Admission, Course Withdrawals, Standards for Awarding Credentials, Involuntary Health and Safety Leave of Absence, Prior Learning Assessment, Medical/Compassionate Withdrawal, Sexual Violence and Misconduct, Student Ancillary Fees, Student Appeals, Student Conduct, and Student Penalties and Fines.

## A. GRADING SYSTEMS <http://camosun.ca/about/policies/index.html>

The following two grading systems are used at Camosun College:

### 1. 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		1
0-49	F	Minimum level has not been achieved.	0

### 2. Competency Based Grading System (Non GPA)

This grading system is based on satisfactory acquisition of defined skills or successful completion of the course learning outcomes

Grade	Description
COM	The student has met the goals, criteria, or competencies established for this course, practicum or field placement.
DST	The student has met and exceeded, above and beyond expectation, the goals, criteria, or competencies established for this course, practicum or field placement.
NC	The student has not met the goals, criteria or competencies established for this course, practicum or field placement.

## B. 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 <http://camosun.ca/about/policies/index.html> 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 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.