



CAMOSUN COLLEGE
School of Arts & Science
Department of Biology

BIOL-124-002
Evolution and Diversity
WINTER 2018

COURSE OUTLINE

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.

1. Instructor Information

(a) Instructor DAVID RAJU
(b) Office hours TBA
(c) Location Fisher 342A
(d) Phone TBA Alternative: _____
(e) E-mail raju@camosun.bc.ca
(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) iPhone or computer (access to Internet provided on campus)
- b) Campbell Biology (any edition is the recommended text) (DO NOT PURCHASE PRIOR TO DISCUSSION REGARDING TEXT WITH INSTRUCTOR)

4. Course Content and Schedule

Biology 001A/B Lectures Monday/Wednesday 11:30-12:50PM in Fisher 200
Biology 002A/B Lectures Monday/Wednesday 3:30-4:50PM in Fisher 200
Biology 001A Lab Friday 1:30-4:20PM in Fisher 244
Biology 001B Lab Friday 9:30-12:20PM in Fisher 244
Biology 002A Lab Thursday 1:30-4:20PM in Fisher 244
Biology 002B Lab Thursday 9:30-12:20PM in Fisher 244

DATE	Day	MAIN TOPIC
Jan 8	M	Introduction to Biology
10	W	Systematics
11, 12	Th, F	Phylogeny/Insect Lab

15	M	Process of Science
17	W	Sexual Selection
18, 19	Th, F	Crustacean (Daphnia) Lab
22	M	Kin Selection
24	W	Natural Selection
25, 26	Th, F	Selection (Sowbug) Lab
29	M	Evolution Continued
31	W	Protists
Feb 1, 2	Th, F	Prokaryote/Protist Lab
5	M	Evolution Review
7	W	Plants
8, 9	Th, F	Plants One Lab
12	M	NO CLASS
14	W	NO CLASS
15, 16	Th, F	NO LAB
19	M	EXAM 1
21	W	EXAM1
22, 23	Th, F	Plant Two Lab
26	M	Birds
28	W	Fungi
Mar 1, 2	Th, F	Fungi Lab
5	M	Amphibians
7	W	Invertebrates
8, 9	Th, F	Invertebrate One Lab
12	M	Rodents
14	W	Prokaryotes
15, 16	Th, F	Invertebrate Two Lab
19	M	Fish
21	W	Chordates
22, 23	Th, F	Chordate Lab
26	M	Gymnosperms
28	W	Mammals
29, 30	Th, F	NO LAB
April 2	M	NO CLASS
4	W	Diversity/Final Review
5, 6	Th, F	Flatworm (Planarian) Lab
9	M	EXAM 2
11	W	EXAM 2
12, 13	Th, F	Bird (Owl) Lab
TBA	TBA	EXAM 3

5. Basis of Student Assessment (Weighting)

- a) *Lecture assignments = 20%*
- b) *Laboratory assignments = 20%*
- c) *Exam 1 = 20%*
- d) *Exam 2 = 20%*
- e) *Exam 3 = 20%*

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.