

COURSE OUTLINE

TERM: Fall 2013	COURSE NO.: BBIO 044
INSTRUCTOR:	COURSE NAME: ABE Advanced Biology II
OFFICE:	COURSE CREDITS: 1.0

COURSE FORMAT: A minimum of 1.5 hours in class and 1.5 hours in another mode of delivery such as tutorial in the ABE Learning Lab, on-line using Moodle or in the ABE Biology lab. Students may complete this course in less or more than 15 weeks in the self-paced mode.

PREREQUISITE: BBIO 043

RECOMMENDED FOLLOW-UP COURSES: Any of: BBIO 053 (ABE Provincial Biology), BIOL 104 (Human Biology for non-majors), BIOL 105 (Environmental Biology for non-majors) or BIOL 110 (majors Biology)

LEARNING OUTCOMES:

Upon completing this course students will be able to demonstrate functional scientific skills at the ABE-Advanced Biology level, which is articulated in the *Adult Basic Education in British Columbia Articulation Handbook* at <http://www.aved.gov.bc.ca/abe/docs/handbook.pdf>. Note that laboratory skills are part of the essential learning outcomes, and a total of at least 7 lab and field activities must be completed by the end of BBIO 043 and BBIO 044.

Specifically, upon completion of BBIO 044, learners will be able to:

- Cite evidence for evolutionary theory.
- Explain the mechanisms of evolution.
- Discuss the origin of life.
- Demonstrate an understanding of classification.
- Identify major taxonomic groups.
- Identify structures and distinguishing characteristics and describe life processes for the following groups:
 - Viruses.
 - Bacteria.
 - Protists.
 - Fungi.
 - Animals – invertebrates and vertebrates.
- Describe energy flow and nutrient cycles within ecosystems.
- Characterize ecosystems and the interactions therein.
- Describe ecological changes over time.
- Define biosphere and characterize biomes.
- Identify and evaluate ecological issues.
- Demonstrate proficiency with the use of plant and/or animal identification keys.
- Demonstrate the ability to gather ecological data safely and ethically.

- Analyze, interpret and communicate results of field and/or lab investigations appropriately.

REQUIRED TEXT:

Mader, S. *Inquiry into Life*. 13th edition. New York: McGraw Hill, 2011. Previous editions are acceptable, but be aware that the assigned readings may be slightly different.

EVALUATION PROFILE:

Quizzes (10 x 1%)	10%
Unit Tests (3x 10%)	30%
Lab Activities (2 x 5%)	10%
Assignments and Field Activities (2x 12.5%)	25%
Final exam	<u>25%</u>
	100%

GRADING PROFILE:

Final letter grades will be determined from your total final mark according to the following schedule:

A+	90-100%	B+	77-79%	C+	67-69%	D	50-59%
A	85-89%	B	73-76%	C	63-66%	F	0-49%
A-	80-84%	B-	70-72%	C-	60-62%		

* Students may be assigned “NC” (No Credit) if they require more time to finish the course.

OPERATIONAL DETAILS:

Laboratory:

- Consult with your instructor for information relating to laboratory safety.
- The area of the lab in which you perform your experiment must be left clean and all equipment thoroughly washed **and** rinsed. Equipment should be returned to the location in which it was found.
- Remember to leave time for clean up when planning an experiment.
- Students must demonstrate responsible and respectful behavior in the lab at all times.
- All laboratory data must be checked and initialed by the instructor before cleaning up after the lab work is completed.

University Policies:

Capilano University has policies on Academic Appeals (including appeal of final grade), Student Conduct, Cheating and Plagiarism, Academic Probation and other educational issues. These and other policies are available on the University website.

Attendance and Progress:

Students who will be absent for any reason should leave a voice or email message for their instructor *prior* to the start of class. ABE department policy is to place students attending less than 75% of classes in a subject on a “non-priority list”. Students on this list register last (after all other students have registered). A student may enroll in a self-paced ABE Biology course for a maximum of 2 terms.

Cheating/Plagiarism:

All forms of cheating including plagiarism are serious offences. The instructor has the right to assign a “0” on the assignment or a grade of “NC” on the course. A second offence in any course may result in expulsion from the program.

Computer use policies:

The misuse of a computer system (such as unauthorized access to other computer accounts or unauthorized use of system software) is not only unfair to other students but can result, at the instructor's discretion, in suspension of the offender's computer access in a course, which may result in an “NC” grade. Repeated offences may result in a permanent revoking of all computer privileges.

Emergency Procedures:

Please read the emergency procedures posted on the wall of the classroom.