



COURSE OUTLINE		
TERM: Fall 2022	COURSE NO: BIOL 351	
INSTRUCTOR:	COURSE TITLE: Global Biogeography	
OFFICE: LOCAL: E-MAIL: @capilanou.ca	SECTION NO(S):	CREDITS: 3.0
OFFICE HOURS:		
COURSE WEBSITE:		

Capilano University acknowledges with respect the Lil'wat, Musqueam, Squamish, Sechelt, and Tsleil-Waututh people on whose territories our campuses are located.

COURSE FORMAT

Each week there are three hours of class time, and an additional hour delivered through on-line or other activities for a 15-week semester, which includes two weeks for final exams.

COURSE PREREQUISITES

45 credits of 100-level or higher coursework

CALENDAR DESCRIPTION

Students will be introduced to the relationship between earth's geological and biological history and the evolutionary processes which combine to determine the global distribution of plants, animals and ecosystems. Major biomes, such as the tundra, boreal forests, tropical rainforests, grasslands and deserts and their characteristic vegetation and faunal groups will be included in the studies.

COURSE NOTE

BIOL 351 is an approved Science and Technology course for Cap Core requirements.

BIOL 351 is an approved Science course.

This course is intended for students in the 3rd or 4th year of a degree program.

RECOMMENDED TEXT:

Optional Textbook: Cox, C.B., P.D. Moore and Richard J. Ladle. Biogeography: An Ecological and Evolutionary Approach. 9th ed. Wiley: Blackwell, 2016.

Additional readings may be assigned during the semester.

COURSE STUDENT LEARNING OUTCOMES

- Understand and explain the impact of such processes as plate tectonics and past climatic change on present day world plant, animal, and ecosystem distributions.
- Understand and be able to describe the major life regions in terms of distribution, ecology, and major vegetation and faunal groups.
- Understand and explain the major evolutionary processes which help explain biodiversity differences and levels in various parts of the world.

Students who complete this Science and Technology course will be able to do the following:

- Assess the cultural, economic, and political effects of technology.
- Assess the impacts of human activity on natural systems and articulate ways in which environmental sustainability may be achieved.
- Evaluate scientific information (e.g., distinguish primary and secondary sources, assess credibility and validity of information).
- Explain how scientific inquiry is based on investigation of evidence and evolves based on new findings.
- Participate in scientific inquiry and communicate the elements of the process, including making careful and systematic observations, developing and testing a hypothesis, analyzing evidence, and interpreting results.

COURSE CONTENT

Textbook readings are optional, but will support topics covered in lecture. Additional readings may be assigned during the semester.

Week	Topic	Textbook Chapter
1	Introduction History of Biogeography	Chapter 1 The History of Biogeography
2	The Physical Template: Plate Tectonics and Climate	Chapter 5 Plate Tectonics
3	Fundamental Processes: Evolution and Dispersal	Chapter 6 Evolution Chapter 8 From Evolution to Patterns of Life
4	Ecological Biogeography: Distribution of Species	Chapter 2 Patterns of Distribution
5	Ecological Biogeography: Distribution of Ecosystems	Chapter 3 Communities and Ecosystems
6	Ecological Biogeography: Islands	Chapter 7 Life, Death, and Evolution on Islands
7	<i>Family Day – No Class</i>	
8	Ecological Biogeography: Continents and Oceans	Chapter 4 Patterns of Biodiversity Chapter 9 Patterns in the Oceans
9	Historical Biogeography: Continental Drift and Biogeographic Regions	Chapter 10 Patterns in the Past Chapter 11 Setting the Scene for Today
10	Historical Biogeography: Climate Change in Deep Time	Chapter 12 Ice and Change
11	Human Evolution and Biogeography	Chapter 13 The Human Intrusion
12	Conservation Biogeography	Chapter 14 Conservation Biogeography
13	Poster Presentations	
14	Catch up and review for final exam	
15	Final Exam Period	

EVALUATION PROFILE

Final grades for the course will be computed based on the following schedule:

Unit Exams (3)	30%
Annotated Bibliography	20%
Poster Presentation	15%
Final Exam	35%
TOTAL	100%

- A graded assessment will be returned to students prior to the withdrawal date.
- Specific dates and details regarding the Evaluation Component will be provided by the instructor.

GRADING PROFILE

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	

Incomplete Grades

Grades of Incomplete "I" are assigned only in exceptional circumstances when a student requests extra time to complete their coursework. Such agreements are made only at the request of the student, who is responsible to determine from the instructor the outstanding requirements of the course.

Late Assignments

Assignments are due at the beginning of the class on the due date listed. If you anticipate handing in an assignment late, please consult with your instructor beforehand.

Missed Exams/Quizzes/Labs etc.

Make-up work is given at the discretion of the instructor. Normally, a score of zero will be given for a missed exam, test, quiz, lab, etc. In certain exceptional situations, the student will be permitted to write a make-up test, defer the lab to a later date or to replace the score by other marks (see below). The date and timing of any make-up option is at the discretion of the instructor. It may not be possible to reschedule certain labs, tests or other activities.

A score of zero may be avoided when the student meets all of the following conditions:

1. Circumstances are beyond the control of the student which resulted in the exam, test, quiz, lab, etc. to be missed. Such circumstances include serious illness or injury or severe personal crises. They do not include forgetting about the test, lack of preparation for the test, or work-related or social obligations. The student has notified the instructor (or the School of STEM office staff, if the instructor is not available) about the missed exam, test, quiz, lab, etc. Such notification must occur in advance or, at the latest, on the day of the exam, test, quiz, lab, etc.
2. Evidence of the circumstances may be requested. Proper medical documentation of illness or injury may be required from a doctor.
3. The student has been fully participating in the course up until the circumstances that prevented the writing of the exam, test, quiz, lab, etc. Fully participating means regularly attending labs and lectures and turning in assignments in the course.

Attendance

Regular attendance is essential in online classes. If classes are missed, it is the student's responsibility to become aware of all information given in the lectures and laboratories, including times of examinations and assignment deadlines.

English Usage

Students are expected to use correct standard English in their written and oral assignments, exams, presentations and discussions. Failure to do so may result in reduced grades in any part of the Evaluation Profile.

Electronic Devices

Students may use electronic devices during class for note-taking, calculations and in-class research.

On-line Communication

Outside of the classroom, instructors will (if necessary) communicate with students using their official Capilano University email, eLearn, WebEx, and/or Zoom; please check all platforms regularly. Official communication between Capilano University and students is delivered to students' Capilano University email addresses only.

UNIVERSITY OPERATIONAL DETAILS**Tools for Success**

Many services are available to support student success for Capilano University students. A central navigation point for all services can be found at: <https://www.capilanou.ca/student-life/>

Capilano University Security: download the [CapU Mobile Safety App](#)

Policy Statement (S2009-06)

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

Academic Integrity (S2017-05)

Any instance of academic dishonesty or breach of the standards of academic integrity is serious and students will be held accountable for their actions, whether acting alone or in a group. See policy and procedures S2017-05 Academic Integrity for more information: <https://www.capilanou.ca/about-capu/governance/policies/>

Violations of academic integrity, including dishonesty in assignments, examinations, or other academic performances, are prohibited and will be handled in accordance with the Student Academic Integrity Procedures.

Academic dishonesty is any act that breaches one or more of the principles of academic integrity. Acts of academic dishonesty may include but are not limited to the following types:

Cheating: Using or providing unauthorized aids, assistance or materials while preparing or completing assessments, or when completing practical work (in clinical, practicum, or lab settings), including but not limited to the following:

- Copying or attempting to copy the work of another during an assessment;
- Communicating work to another student during an examination;
- Using unauthorized aids, notes, or electronic devices or means during an examination;

- Unauthorized possession of an assessment or answer key; and/or,
- Submitting of a substantially similar assessment by two or more students, except in the case where such submission is specifically authorized by the instructor.

Fraud: Creation or use of falsified documents.

Misuse or misrepresentation of sources: Presenting source material in such a way as to distort its original purpose or implication(s); misattributing words, ideas, etc. to someone other than the original source; misrepresenting or manipulating research findings or data; and/or suppressing aspects of findings or data in order to present conclusions in a light other than the research, taken as a whole, would support.

Plagiarism: Presenting or submitting, as one's own work, the research, words, ideas, artistic imagery, arguments, calculations, illustrations, or diagrams of another person or persons without explicit or accurate citation or credit.

Self-Plagiarism: Submitting one's own work for credit in more than one course without the permission of the instructors, or re-submitting work, in whole or in part, for which credit has already been granted without permission of the instructors.

Prohibited Conduct: The following are examples of other conduct specifically prohibited:

- Taking unauthorized possession of the work of another student (for example, intercepting and removing such work from a photocopier or printer, or collecting the graded work of another student from a stack of papers);
- Falsifying one's own and/or other students' attendance in a course;
- Impersonating or allowing the impersonation of an individual;
- Modifying a graded assessment then submitting it for re-grading; or,
- Assisting or attempting to assist another person to commit any breach of academic integrity.

Sexual Violence and Misconduct

All Members of the University Community have the right to work, teach and study in an environment that is free from all forms of sexual violence and misconduct. Policy B401 defines sexual assault as follows:

Sexual assault is any form of sexual contact that occurs without ongoing and freely given consent, including the threat of sexual contact without consent. Sexual assault can be committed by a stranger, someone known to the survivor or an intimate partner.

Safety and security at the University are a priority and any form of sexual violence and misconduct will not be tolerated or condoned. The University expects all Students and Members of the University Community to abide by all laws and University policies, including B.401 Sexual Violence and Misconduct Policy and B.401.1 Sexual Violence and Misconduct Procedure (found on Policy page <https://www.capilanou.ca/about-capu/governance/policies/>)

Emergencies: Students are expected to familiarise themselves with the emergency policies where appropriate and the emergency procedures posted on the wall of the classroom.

DEPARTMENT OPERATIONAL DETAILS

PROFESSIONALISM

Students should be able to demonstrate a professional attitude and behaviour: reliability, respect for and cooperation with colleagues, willingness to work calmly and courteously, respect for equipment and systems, and constructive response to criticism. The use of cellphones for non-academic purposes during lecture and lab sessions is prohibited. Students using cell phones inappropriately could be asked to leave the lecture hall or laboratory room by the instructor.

TOOLS FOR SUCCESS

For success in this course, students are expected to attend all lectures and laboratory sessions; come prepared to address topics presented; pre-read laboratory exercises; and complete assigned textbook readings. For every one hour of lecture material presented, students should expect to spend at least two hours reviewing material and engaging with the study tools provided.