

GEOG 510 LEC 01 Biogeography and Landscape Ecology Winter 2022 classes: January 10th – April 12th, 2022
GFC HOURS (3-0)

Section	Days	Time	Location
LEC 01	M	16:00-18:45PM	ES 054 / Online

Instructor: Dr. Victoria Lukasik	Office: ES438
Telephone:	Email: vlukasik@ucalgary.ca
Email communication will be through your UCalgary email address.	Office hours: By Appointment

The **Department of Geography** condemns the longstanding and continued injustices against those marginalized by racism, sexism, homophobia, transphobia, classism, xenophobia, able-bodied normativity, mental health profiling, and other forms of prejudice. We are pained by the fact that injustices are unevenly borne. <https://arts.ucalgary.ca/news/anti-racism-statement>

Territorial Acknowledgement

The Department of Geography would also like to acknowledge the traditional territories of the people of the Treaty 7 region in southern Alberta. The City of Calgary is also home to Métis Nation of Alberta, Region III. <https://www.ucalgary.ca/indigenous/cultural-protocol>

Official Course Description

Explores the distribution (past and present) of animals and plants, causes of variation in species types, and their abundance and survival. Topics focus on bioregions, biodiversity, communities, ecosystems at multiple scales, as well as investigation of ways that human and natural disturbance affect these patterns. Uses qualitative and quantitative approaches to measure these effects to inform management and conservation.

Course Objectives

The primary objective of this course is to introduce and explain the subfields of biogeography and landscape ecology, including the main concepts of spatial patterns of species distribution and how those are formed and affected. The course will also introduce key analysis methods common in these fields of research.

Course Learning Outcomes

The Department of Geography is committed to student knowledge and skill development. The table below lists the key learning outcomes for this course, the program-learning outcomes to which they contribute, and the expected level of achievement.

Course Learning Outcomes	PLO(s)*	Level(s)**
Understand the history and theoretical foundations of biogeography and landscape ecology	1, 2, 8	1,2
Understand and be able to describe the causes of landscape pattern (abiotic, biotic, human land use and disturbance)	1, 2, 5	1, 2
Understand and be able to describe the effects of landscape pattern on organisms, populations, and communities	1, 2, 5	1, 2
Understand the types of analyses used in biogeography and landscape ecology, and be able to interpret results	1, 2, 4, 6, 8	2, 3
Understand the contribution of biogeography and landscape ecology to conservation and ecosystem management	1, 2, 5, 7, 8	2, 3

*PLOs = Program Learning Outcomes: 1 = reflect and communicate diverse human-environment perspectives, 2 = identify and explain human-environment processes, 3 = implement sampling, data collection, analyses and communication methods, 4 = analyze spatial and temporal aspects of human-environment systems, 5 = employ knowledge, arguments, and methodologies for solving human-environment problems, 6 = evaluate geospatial data and manipulate it to create cartographic products, 7 = communicate geographic concepts using oral, written, graphic, and cartographic modes, and 8 =

demonstrate literacy skills.

**Levels: 1 = Introductory, 2 = Intermediate, and 3 = Advanced.

Prerequisites

3 units from GEOG 313, 412

Basic computer skills are required:

- Access to and use of Microsoft Office suite or equivalent software (word processor, spreadsheets, presentation slides)
- Use of online technology (i.e., D2L, Zoom)
- Internet capacity to access online materials, conduct quizzes, post assignments, join live Zoom sessions.

Some knowledge of Geographic Information System software (i.e., ArcMap, QGIS) is an asset, but is not required.

Course Format

- This course will begin online, through synchronous Zoom sessions.
- Lectures will move to in-person format when the University policy allows. Announcements regarding this will be posted to the course D2L site.
- Students are expected to attend all classes, within reason (i.e., students are to remain home if ill, rather than attend an in-person lecture).
- All course material will be available on D2L, including the course schedule, lecture slides, readings, assignments, quizzes. However, in-person lectures will not be recorded nor broadcast live online

Learning Resources

Required readings will be posted to the course D2L. Students are expected to read these materials outside of class time.

Recommended texts include:

- Cox, C.B., Ladle, R.J., & Moore, P.D. (2019). *Biogeography: an ecological and evolutionary approach*. Hoboken, NJ: John Wiley & Sons; Tenth edition
- Rego, F.C., Bunting, S.C., Strand, E.K., & Godinho-Ferreira, P. (2019). *Applied Landscape Ecology*. Hoboken, NJ: John Wiley & Sons
- Northey, M., Draper, D.L., & Knight, D.B. (2012). *Making Sense: a Student's Guide to Research and Writing: Geography and Environmental Sciences*. Don Mills, ON: Oxford University Press.

Students are expected to login to the course Desire2Learn page online at <https://d2l.ucalgary.ca/d2l/home> at least twice weekly to stay current with the course and any changes to the course format.

Assessment Methods

Grading (Weighting)

1.	Quizzes (6)	30%
2.	Short Assignments (4)	40%
3.	Presentation on a Course Topic (in pairs)	15%
4.	Final Paper	15%

There is no registrar scheduled final examination for this course

- It is not essential to pass all components to pass the course as whole
- Late assignments without prior arrangement will be penalized 10% per 24 hrs

Grading System

96 – 100	A+	77 – 80	B	59 – 61	C-
90 – 95	A	71 – 76	B-	55 – 58	D+
86 – 89	A-	65 – 70	C+	50 – 54	D
81 – 85	B+	62 – 64	C	0 – 49	F

Flexible Grade Option (CG Grade)

<https://www.ucalgary.ca/pubs/calendar/current/f-1-3.html>

Additional Course Information

All written assignments will be expected to meet the standard of a 500-level university course. All writing submitted must first be edited for grammar, spelling, and sentence structure, and must include proper citations. Students are expected to understand plagiarism and how to avoid it.

Online and in-person writing support is available through the Student Success Centre. All students are encouraged to use these resources to improve their writing skills. See: <https://www.ucalgary.ca/student-services/student-success/virtual-writing-question> and <https://www.ucalgary.ca/student-services/student-success/writing-support>.

Students are expected to communicate any challenges with deadlines *in advance* of that deadline. In the event that a student misses any course work due to illness, supporting documentation, such as a medical note or a statutory declaration may be requested <https://www.ucalgary.ca/pubs/calendar/current/m-1.html>
Please refer to <https://www.ucalgary.ca/registrar/registration/appeals/student-faq> for frequently asked questions concerning the provision of a medical note/statutory declaration.

Exams & Deferrals

<https://www.ucalgary.ca/registrar/exams>

Supplementary Fees

Not applicable

Referencing Standard

In written work presented in this class, the accepted method for referencing the work of others will be according to the seventh edition of the Publication Manual of the American Psychological Association (i.e., APA 7th Ed). In text citations should follow the author-date method. <https://library.ucalgary.ca/c.php?g=664585&p=4671793>

Important Dates

The last day to drop this course and receive a tuition fee refund is **Thursday, January 20th, 2022**. The last day to withdraw from this course is **Tuesday, April 12th, 2022**. No classes February 20 – 26th, 2022.

For additional detailed course information posted by the instructor, visit the course Desire2Learn page online at <https://d2l.ucalgary.ca/d2l/home>.

Writing support

Please note writing support resources provided by the Student Success Centre <https://ucalgary.ca/ssc/resources/writing-support> and the library <https://library.ucalgary.ca/guides/writinghelp>

University of Calgary Academic Integrity Policy

Academic integrity is the foundation of the development and acquisition of knowledge and is based on values of honesty, trust, responsibility, and respect. We expect members of our community to act with integrity. The University Calendar includes a statement on the principles of conduct expected of all members of the university community (including students, faculty, administrators, any category of staff, practicum supervisors, and volunteers), whether on or off university property. This statement applies in all situations where members of the university community are acting in their university capacities. All members of the university community have a responsibility to familiarize themselves with the principles of conduct statement, which is available at: www.ucalgary.ca/pubs/calendar/current/k.html.

Plagiarism, Cheating, and Student Misconduct

The University of Calgary is committed to the highest standards of academic integrity and honesty. Students are expected to be familiar with these standards regarding academic honesty and to uphold the policies of the University in this respect.

Academic dishonesty is not an acceptable activity at the University of Calgary, and students are **strongly advised** to read the Student Misconduct section in the University Calendar at: www.ucalgary.ca/pubs/calendar/current/k-3.html. Often, students are unaware of what constitutes academic dishonesty or plagiarism. The most common are (1) presenting another student's work as your own, (2) presenting an author's work or ideas as your own without adequate citation, and (3) using work completed for another course. Such activities will not be tolerated in this course, and students suspected of academic misconduct will be dealt with according to the procedures outlined in the calendar at: <https://www.ucalgary.ca/legal-services/university-policies-procedures/student-academic-misconduct-procedure>

For students wishing to know more about what constitutes plagiarism and how to properly cite the work of others, the Department of Geography recommends that they attend Academic Integrity workshops offered through the Student Success Centre: <https://www.ucalgary.ca/student-services/student-success/learning/academic-integrity>

Instructor Intellectual Property

Information on Instructor Intellectual Property can be found at <https://www.ucalgary.ca/legal-services/university-policies-procedures/intellectual-property-policy>

Freedom of Information and Protection of Privacy

Freedom of Information and Protection of Privacy (FOIP) legislation in Alberta disallows the practice of having students retrieve assignments from a public place, such as outside an instructor's office, the department office, etc. Term assignments will be returned to students individually, during class or during the instructor's office hours; if students are unable to pick up their assignments from the instructor, they must provide the instructor with a stamped, self-addressed envelope to be used for the return of the assignment.

Research

Not applicable

Posting of Grades and Picking-up of Assignments

Graded assignments will be available electronically through the course D2L webpage. Grades and assignments will not be available at the Department of Geography's main office and assignments cannot be dropped off at the Department Office. All assignments will be submitted through the course D2L site.

Academic Accommodations

It is the student's responsibility to request academic accommodations, according to the university policies and procedures listed in the University Calendar.

The student accommodation policy can be found at: <https://www.ucalgary.ca/pubs/calendar/current/b-6-1.html>

Students needing an accommodation because of a disability or medical condition should communicate this need to Student Accessibility Services in accordance with the Procedure for Accommodations for Students with Disabilities: <https://www.ucalgary.ca/legal-services/university-policies-procedures/accommodation-students-disabilities-procedure>

Students needing an accommodation based on a protected ground other than disability should communicate this need, preferably in writing to their instructor or the Department Head (email: freeman@ucalgary.ca).

Online Courses

In order to fully participate while the course is online, students must ensure they meet the Learning technologies and requirements below:

Learning Technologies and Requirements

In order to successfully engage in their learning experiences at the University of Calgary, students taking online, remote and blended courses are required to have reliable access to the following technology.

- A computer with a supported operating system, as well as the latest security and malware updates
- A current and updates web browser
- Webcam (built in or external)
- Microphone and speaker (built in or external) or headset with microphone
- Broadband internet connection

Use of internet and electronic devices in class

During in-person courses, students will be expected to bring a device capable of running D2L to complete online quizzes. Use of the device during lectures is permitted only if this use is related to course activities, and does not disturb the class (i.e., does not distract the instructor or fellow students).

Timed Assessments for Online and Blended Courses

This course includes timed quizzes.

- Quizzes will take place during lecture period. Students unable to attend the lecture will be able to complete the quiz remotely, but only at this common assessment time. A schedule including all quiz dates will be posted on D2L prior to the start of classes.
- Students can miss up to 1 quiz throughout the semester without it affecting their final grade (i.e., assessment will be on the remaining 5 quizzes only). As a result, arranging an alternate time for quizzes will only be considered for circumstances truly out of the student's control.
- If a student is unable to complete the quiz at the scheduled time, the student must contact the instructor as soon as possible (*prior to* the scheduled quiz, if at all possible), to explain the circumstances.
- In the event that a technical issue delays a student's ability to access or complete a quiz, that student is to contact the instructor or teaching assistant immediately, in order to obtain additional time to complete the quiz.
- Students can ask questions regarding quiz material either during office hours (by appointment), via email, or prior to the start of class.

Guidelines for Zoom Sessions

Zoom is a video conferencing program that will allow us to meet at specific times for a "live" video conference (in the event of a switch to an online format, or for online office hours).

To help ensure Zoom sessions are private, do not share Zoom link or password with others, or on any social media platforms. Zoom links and passwords are only intended for students registered in the course. Zoom recordings and materials presented in Zoom, including any teaching materials, must not be shared, distributed or published with the instructor's permission.

The use of video conferencing programs relies on participants to act ethically, honestly and with integrity; and in accordance with the principles of fairness, good faith and respect (as per the [Code of Conduct](#)). When entering Zoom or other video conferencing sessions (such as MS Teams), you play a role in helping create an effective, safe and respectful learning environment.

Please be mindful of how your behavior in these sessions may affect others. Participants are required to use names officially associated with their UCID (legal or preferred names listed in the Student Centre) when engaging in these activities. Instructors/moderators can remove those whose names do not appear on class rosters. Non-compliance may be investigated under relevant University of Calgary conduct policies (e.g. Student Non Academic Misconduct Policy). If participants have difficulties complying with this requirement, they

should email the instructor of the class explaining why, so the instructor may consider whether to grant an exception, and on what terms. For more information on how to get the most out of your Zoom sessions visit: <https://elearn.ucalgary.ca/guidelines-for-zoom/>.

If you are unable to attend a Zoom session, please contact your instructor to arrange an alternative activity for the missed session (e.g., to review a recorded session). Please be prepared, as best as you are able, to join class in a quiet space that will allow you to be fully present and engaged in Zoom sessions. Students will be advised by their instructor when they are expected to turn on their webcam (for group work, presentations, etc.).

The instructor may record online Zoom class sessions for the purposes of supporting student learning in this class – such as making the recording available for review of the session or for students who miss a session. Students will be advised before the instructor initiates a recording of a Zoom session. These recordings will be used to support student learning only and will not be shared or used for any other purpose.

Media Recording (if applicable)

Not applicable

Course evaluations and student feedback

Student feedback will be sought at the end of the course through the standard University Student Ratings of Instruction (USRI) and Faculty course evaluation forms.

Accessibility

Students are expected to be able to see lecture slides and hear lectures to gain all course information. In the case that students require accommodations for any of the above, they are expected to contact the instructor at or prior to the start of term.

Copyright Legislation

All students are required to read the University of Calgary policy on Acceptable Use of Material Protected by Copyright <https://www.ucalgary.ca/legal-services/university-policies-procedures/acceptable-use-material-protected-copyright-policy> and requirements of the copyright act (<https://laws-lois.justice.gc.ca/eng/acts/C-42/index.html>) to ensure they are aware of the consequences of unauthorised sharing of course materials (including instructor notes, electronic versions of textbooks etc.). Students who use material protected by copyright in violation of this policy may be disciplined under the Non-Academic Misconduct Act.

Wellness and Mental Health Resources

The University of Calgary recognizes the pivotal role that student mental health plays in physical health, social connectedness, and academic success and aspires to create a caring and supportive campus community where individuals can freely talk about mental health and receive supports when needed. We encourage you to explore the mental health resources available throughout the university community, such as counselling, self-help resources, peer support, or skills-building available through the SU Wellness Centre (Room 370, MacEwan Student Centre, <https://www.ucalgary.ca/wellnesscentre/services/mental-health-services>) and the Campus Mental Health Strategy website (<http://www.ucalgary.ca/mentalhealth/>).

Students requiring assistance are encouraged to email the **Student at Risk line** if they or others appear to need wellness assistance: sar@ucalgary.ca For more immediate response, please call: 403-210-9355 and select option #2.

Sexual Violence Policy

The University recognizes that all members of the University Community should be able to learn, work, teach and live in an environment where they are free from harassment, discrimination, and violence. Please see the policy available at <https://www.ucalgary.ca/policies/files/policies/sexual-violence-policy.pdf>

Contact Information for Student and Faculty Representation

- Student Union VP Academic 403-220-3911, suvpaca@ucalgary.ca
- Students Union Representatives for the Faculty of Arts – 403-220-3913, arts1@su.ucalgary.ca, arts2@su.ucalgary.ca, arts3@su.ucalgary.ca, arts4@su.ucalgary.ca
- Student Ombuds Office information can be found at: www.ucalgary.ca/ombuds/

Emergency Evacuation/Assembly Points

Assembly points for emergencies have been identified across campus. Assembly points are designed to establish a location for information updates from the emergency responders to the evacuees; from the evacuated population to the emergency responders. For more information, see the University of Calgary's Emergency Management website: <https://www.ucalgary.ca/risk/emergency-management>. **Please Note: The appropriate emergency evacuation assembly point (i.e. muster point) for all classes taught in Earth Sciences is ICT Food Court**

Campus Safewalk

Campus Security, in partnership with the Students' Union, provides the Safewalk service, 24 hours a day, to any location on Campus, including the LRT station, parking lots, bus zones, and university residences. Contact Campus Security at 220-5333 or use a help phone, and Safewalkers or a Campus Security officer will accompany you to your campus destination.