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UNIVERSITY
OF MANITOBA

**University of Manitoba
Clayton Riddell Faculty
Department of Environment and Geography**

**Biogeography Course Syllabus
ENVR 4060, GEOG 4060, GEOG 7500
Winter 2024**

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COURSE DETAILS

Course Title & Number: Biogeography - ENVR 4060, GEOG 4060, and GEOG 7500

Number of Credit Hours: 3 Credit Hours

Class Times & Days of Week: Friday 2:30 pm – 5:15 pm (CST)

Instructor Contact Information

Instructor: Dr. Erin McCance

Species Specialist Robert Wheeldon rewheeldon51@gmail.com

Office Hours: Online office hours via Microsoft Teams Thursday 4:00 pm-6:00 pm (By appointment only)

Office Phone No.: (204) 232-2941

Email: erin.mccance@umanitoba.ca

Contact: E-mail : erin.mccance@umanitoba.ca
Communication with students is conducted only through an @umanitoba.ca email account
All email communication will be responded to within 24 hours.
Students should contact me via email.

General Course Content

The course consists of weekly seminars in which students take an active role in presenting, examining, and questioning specific aspects of biogeography. Students learn about Historical Biogeography, Biological Biogeography, Ecological Biogeography, Conservation Biogeography, as well as Biogeography in the Anthropocene, using species-specific case studies to assist. The course emphasizes principles and approaches to understanding biogeography using the selected textbook as the basic guide. Additional background reading materials will be assigned and provided as required. Students should prepare themselves for weekly seminars and class discussions by referring to designated chapters of the textbook as well as other materials as assigned and of their own choosing. Weekly discussions include consideration of 'Current Events' as related to biogeography. Students will be evaluated through class participation, seminar leadership, formal testing, research assignments, and oral presentations.

Course Goals

Biogeography is a senior-level course in the Department of Environment and Geography. The goal of this course is to provide students with a general understanding of the current and historical components of this discipline, especially considering its ecological, analytical, and

conservation aspects. The course has a dual focus on identifying principles and concepts of the distribution of plants and animals worldwide as well as incorporating discussion on as many local (Manitoba, Canada, North America) examples as possible.

Intended Learning Outcomes – Course Objectives

Upon completion of this course, students should be able to:

1. Understand and participate in discussions regarding various aspects of biogeography on a broad as well as a local scale;
2. Identify, examine, and assess the scientific literature relating to biogeography; and
3. Describe in detail, the historical, biological, ecological and anthropogenic biogeographical components for a North American species.

Using Copyrighted Material

Please respect copyright. We will use copyrighted content in this course. I have ensured that the content used is appropriately acknowledged and is copied in accordance with copyright laws and University guidelines. Copyrighted works, including those created by me, are made available for private study and research and must not be distributed in any format without permission. Do not upload copyrighted works to a learning management system (such as UM Learn), or any website, unless an exception to the *Copyright Act* applies or written permission has been confirmed. For more information, see the University's Copyright Office website at <http://umanitoba.ca/copyright/> or contact um_copyright@umanitoba.ca.

Plagiarism: Plagiarism, cheating, or impersonation in the completion of assignments and at examinations are very serious offences. Students caught plagiarizing on assignments may be debarred from class with further risk of academic penalty and possible expulsion. All graded work must be independent.

Recording Class Lectures

Dr. Erin McCance, Robert Wheeldon, and the University of Manitoba hold copyright over the course materials, presentations, and lectures which form this course. No audio or video recording of lectures or presentations is allowed in any format, openly or surreptitiously, in whole or in part without permission of Dr. Erin McCance. Course materials (both paper and digital) are for the participant's private study and research.

Textbook, Readings, Materials

Required Textbook:

C. Barry Cox, Richard J. Ladle, Peter D. Moore. (2020). *Biogeography: An Ecological and Evolutionary Approach*. 10th Edition. Wiley Publishing. ISBN#: 978-1119486312

Attendance & Lecture Assessments

You are required to attend all scheduled lectures. At various times within each lecture, you will be prompted to contribute to an interactive engagement exercise. Your completion of these interactive engagement/lecture exercises will contribute toward 10% of your course attendance/lecture assessment grade. If you are unable to attend a scheduled lecture, you are required to email the instructor PRIOR to the scheduled class to provide reasoning for your absence.

Course Technology

It is the general University of Manitoba policy that all technology resources are to be used in a responsible, efficient, ethical, and legal manner. Students may use technology for educational purposes as approved by instructor and/or the University of Manitoba Disability Services. Students should not participate in personal direct electronic messaging / posting activities (e-mail, texting, video or voice chat, wikis, blogs, social networking (e.g., Facebook) online and offline “gaming” during scheduled online lecture time.

Microsoft Teams

Instructor office hours will be held following each lecture as well as during scheduled office hours (by appointment only) using Microsoft Teams. Each student should take time to download Microsoft Teams (<https://www.microsoft.com/en-ca/microsoft-teams/download-app>)

Class Communication

The University requires all students to activate an official University email account. For full details of the Electronic Communication with Students please visit:

http://umanitoba.ca/admin/governance/media/Electronic_Communication_with_Students_Policy_-_2014_06_05.pdf

Please note that all communication between me and you as a student must comply with the electronic communication with student policy.

(http://umanitoba.ca/admin/governance/governing_documents/community/electronic_communication_with_students_policy.html). You are required to obtain and use your U of M email account for all communication between yourself and the university. I will only use and respond to an email from a student’s U of M email account. All students must gain access to U of M Learn. All course materials and updates on course scheduling and content will be posted on U of M Learn.

Course Delivery

This course is comprised of weekly in-person seminars. Lecture materials will be posted on UM Learn. These materials are subject to copyright (please note the section outlining the use of copyrighted material). These online materials are not a substitute for coming to class, and you cannot use these notes exclusively as they will need to be supplemented by notes from lecture and seminar discussions as well as readings that are assigned and from the textbook. ALL course content, including information from discussions held during class time are testable.

- For assistance with *UM Learn*:
 - Information and Services Technology Service Desk: <http://umanitoba.ca/ist/help/>
 - 123 Fletcher Argue (Mon - Fri: 8:00 AM. - 8:00 PM)
 - Phone: 204.474.8600
 - Email: Servicedesk@umanitoba.ca

Expectations: I Expect You To

The lecture material covered in each week will be provided on UM Learn. Since the notes are made available to you, each student should be actively involved in class discussions and participate fully with each exercise. You are required to attend every class. Please come to class each week prepared to discuss the topics outlined. You may use your computer to take notes during class. Further, each student is asked to:

- Know course and university policies.

- Read and understand the course syllabus.
- Be courteous and respectful. Policies on Respectful Work and Learning Environment (RWLE) and Inappropriate and Disruptive Student Behavior below.
- Remain available for all classes.
- Maintain academic integrity and copyright according to the University of Manitoba guidelines.
- Inform instructor promptly if there is a conflict with the course schedule or course deliverables.
- Consult your *UM* email account regularly. This is how the instructor and university will communicate with you. Since there may be weather that may impact the schedule, please check your U M Learn and U of M email accounts each week prior to class.

I will treat you with respect and would appreciate the same courtesy in return. See [Respectful Work and Learning Environment Policy](#).

Inappropriate and Disruptive Student Behavior:

Inappropriate and disruptive behavior that interferes with the learning of other students, or the instructor's ability to teach will not be tolerated. Such behaviors would include but would not be limited to the following:

- threats to the physical safety of the individuals or others;
- verbal threats to or abuse of students or University personnel;
- recurring and willful damage of University and Parkland Mews property, including equipment;
- inappropriate or disruptive behavior as a result of misuse of drugs or alcohol on University or Parkland Mews property; and
- actions which habitually interfere with the learning environment or requires the inordinate time and attention of faculty and staff.

Other disruptive activities include (but are not limited to) the use of texting in class, wearing headphones, talking during lecture, using technology such as computers, tablets, and mobile devices to view material that is not related to the class.

Please see the Inappropriate or Disruptive Student Behavior Policy: <http://bit.ly/2iRbHKU>

Please see the Student Discipline Bylaw: <http://bit.ly/2b3RL3p>

Academic Integrity:

Students are responsible for ensuring they understand the University of Manitoba's policy on Academic Integrity (plagiarism, cheating, and examination impersonation). These policies are available in the University Catalog 2016-2017, General Academic Regulations <http://bit.ly/2Dz50DX>. The penalties for plagiarism and cheating are severe and range from receiving a grade of zero on an assignment, to academic suspension. For more information on Cheating, Plagiarism, and Fraud: <http://bit.ly/2b63fBP> & <http://bit.ly/2b63ywR>. All work is to be completed independently unless otherwise specified.

Students Accessibility Services

If you are a student with a disability, please contact SAS for academic accommodation supports and services such as note-taking, interpreting, assistive technology and exam accommodations. Students who have, or think they may have, a disability (e.g., mental illness, learning, medical, hearing, injury-related, visual) are invited to contact SAS to arrange a confidential consultation.

Student Accessibility Services <http://umanitoba.ca/student/saa/accessibility/>

520 University Centre, 204 474 7423 Student_accessibility@umanitoba.ca

Expectations: You Can Expect Me To

I will strive to create a welcoming, inclusive, and positive classroom environment in which all students feel respected and heard. I will treat you fairly and respectfully while supporting your vision of academic success. I will adhere to the Respectful Work and Learning Environment Policy. I will listen to your questions/concerns/feedback about the course structure, readings, assignments and grading. I will provide timely feedback on assessments. I will follow policies regarding academic staff's responsibilities regarding students (ROASS).

I will follow university policies on plagiarism, cheating, and exam personation. I will act with academic integrity, utilize my University of Manitoba email account to communicate with you and return emails in a timely fashion (24-hours) and follow the University of Manitoba Electronic Communications with Students Policy. I will identify and recommend on campus resources you might find helpful on an as-needed basis (such as the academic learning centre, accessibility services, libraries, etc.). I will respect confidentiality by protecting your personal information and adhering to University Policies on Information Access and Privacy and The Freedom of Information and Protection of Privacy Act (FIPPA). I will respect Copyright in accordance with copyright laws and university guidelines.

Class Schedule

Jan. 12	<p>Course Syllabus Overview Attendance/Interactive Assessment Assignment and Term Project</p> <p>The Discipline Definitions, basic concepts and terms used in biogeography Hierarchies of Life Description and Interpretation of Distributions</p>	Chapter 1
Jan. 19	<p>Historical Biogeography "A Walk through time." Earth Formation and Systems Evolution and Adaptive Radiation <i>Attendance/classroom assessment exercise will take place</i></p>	Sections II & IV
Jan. 26	<p>The Influence of Humans Emergence of human species Age of Enlightenment Animal and Plant Domestication and Agriculture Human ethics and value systems <i>Attendance/classroom assessment exercise will take place</i></p> <p>Term Paper Species must be approved by the instructor by the end of the day</p>	Section V
Feb. 2	<p>Ecological Biogeography Limiting factors</p>	Chapters 2 & 3

	Food webs Seasonality Habitat <i>Attendance/classroom assessment exercise will take place</i>	
Feb. 9	An Urbanized Globe Influence and Impact Spatial Geography Species Co-existence Biomimicry <i>Attendance/classroom assessment exercise will take place</i>	Section V
Feb 16	Midterm Test – 1.5 hrs long – worth 20%	
	Climate Change Influence and impact Causes and rates of change Biodiversity shift <i>Attendance/classroom assessment exercise will take place</i>	Chapter 10
Feb. 23	Study Break	
March 1	Term Paper Individual Progress Presentations 5 mins – worth 5%	
March 8	Conservation Biogeography Speciation, Extinction, Evolution Landscape mosaics and Corridor Ecology Island Biogeography The Biogeography Challenge <i>Attendance/classroom assessment exercise will take place</i>	Chapters 7 & 14
March 15	Parkland Mews Field Trip – Case Study: The Story of the Peregrine Falcon <i>Attendance/classroom assessment exercise will take place</i>	
March 20	Voluntary Withdrawal Date (Students will have a minimum of 40% of their course grade available at this time)	
March 21	Term Paper Oral Presentation Submissions due by 4:00 pm	
March 22	Oral presentations <i>Attendance/classroom assessment exercise will take place</i>	
March 29	GOOD FRIDAY – NO CLASS	
April 5	Oral presentations (Continued) <i>Attendance/classroom assessment exercise will take place</i> *<u>Term papers due</u>	
April TBA	Final Exam (April 12-26) - Date to be determined	

Course Evaluation Methods

The course is evaluated using a variety of methods to give all types of learners an opportunity to excel, including essay format, traditional testing, oral presentation format, and weekly participation. A goal of the course is to work with students to enhance their oral presentation and writing skills.

Due Date:	Assessment Tool	% Of Final Grade
Ongoing	Attendance/Interactive Assignments	10%
Feb. 16, 2024	Midterm Test	20%
March 1, 2024	Term Paper Progress Oral Presentation (presentations due on Feb. 29 by 4pm)	5%
March 21, 2024	Term paper Oral Presentations due (presentations on either March 22 or April 5)	10%
April 5, 2024	Written Term Paper Report due	25%
April Exam Period -TBA	Final Exam	30%
TOTAL		100%

Grading

The grading scale used by the Department of Environment and Geography is:

Letter Grade	Percentage out of 100	Grade Point Range	Final Grade Point
A+	90-100	4.25-4.5	4.5
A	80-89	3.75-4.24	4.0
B+	75-79	3.25-3.74	3.5
B	70-74	2.75-3.24	3.0
C+	65-69	2.25-2.74	2.5
C	60-64	2.0-2.24	2.0
D	50-59	Less than 2.0	1.0
F	Less than 50		0

Referencing Style

Assignments should use the APA reference style as outlined in the text:
American Psychological Association. (2009). Publication manual of the American Psychological Association (6th ed.). Washington, DC: Author.

Test Absence Policy

If a student is unable to write the final exam on the scheduled exam date due to medical or compassionate reasons, you **may** qualify for a deferred examination. Applications for a deferred exam must be completed within 48 hours of the date of the missed exam and are submitted to your academic advising office. If you are unable to attend an oral presentation date, you must email the instructor (from your U of M email account) **PRIOR** to the presentation date including a medical note, or a self-declaration of a medical or compassionate circumstance. Failure to do so will result in a zero grade. There will be no exceptions to the above standard.

Term Paper and Oral Presentation

Students are expected to write a term paper on the biogeography of a taxon (subspecies, species, superspecies, subgenus, genus, subfamily, or family) or specific population of their own choosing that presently resides within North America. Students must discuss the past (evolutionary history), present (current distribution pattern), and future (changes in limiting factors, threats to survival, and management issues) of their chosen taxon, paying attention to the various concepts discussed throughout the course. Throughout their term paper, students should be referring to the material we are learning and apply these learnings to their North American species of choice. Students must have their species approved by Dr. McCance by January 26, 2024.

Term papers should be in the range of 25 pages long (30 pages maximum) 1.15 spacing, using 11 pt. font. The term paper is due, April 5, 2024, into the dropbox available on UM Learn by 4pm. Term papers are worth 25% of the student's total grade. Term papers must be submitted in either Microsoft word or PDF format only. No other formats will be accepted. It is the responsibility of the student to check to ensure that the file they submitted is correct and can be opened by the instructor.

Late assignments will NOT be accepted, unless for documented reasons as outlined in the University of Manitoba General Academic Regulations.

For the term paper, students are expected to reference scientific literature, in particular peer-reviewed articles, as well as web-based sources, using APA reference style.

Each student is expected to make a 10-minute oral presentation on their chosen topic during one of the last 2 classes (worth 10% of student's total grade). Graduate students will be expected to provide a longer, more detailed response to assignment questions, a more technical term paper, and a 15-minute oral presentation. The oral component of the assignment must be submitted by 4:00 pm into the dropbox on UM Learn on March 21, 2024 (Regardless of which day you are scheduled to present). The formats accepted for the oral presentation component are power point or PDF. No other formats will be accepted. It is the responsibility of the student to check to ensure that the file they submitted is correct and can be opened by the instructor. Students will be presenting their assignment findings to the class on either March 22, 2024, or April 5, 2024, based on a 'first come, first served' philosophy. Students should email the course instructor to request a presentation date.

Assignment Extension and Late Submission Policy

Late submission Policy for Assignments, Reports and Presentations: Late submissions will be awarded an automatic "F" without permission of the instructor and supporting documentation (e.g., medical certificate or self-declaration) or reasons provided. Failure to hand-in one or more assignments/reports will result in a grade of "F" for the course.

Note: electronic submission is required for all assignments using the Dropbox function on the UM Learn site.

Assignment Submissions: All assignments MUST be complete and MUST open to be considered finished. I will accept MS Word documents or PDFs. **It is the student's responsibility to ensure the submitted files are correct and readable by the instructor.**

Academic Supports: The University of Manitoba provides many services and supports to encourage good scholarship and overall health and wellness including instruction to improve writing skills, best use practices for copyrighted materials, and supports for studying for examinations etc., personal health (both mental and physical) including student advocacy, student counseling and health services, etc. and supports for assaults (both verbal and physical). These are designed to make each student's experience positive, safe and assist in successful completion of courses and programs of study. The University provides and encourages all members and students to maintain a respectful work and learning environment. Policies have been developed regarding threatening behavior, or assaults whether verbal or physical to support victims and discipline offenders. For more information on these see Schedule "A" found at the end of the course syllabus.

Schedule "A"

Section (a) Academic Supports

Writing and Learning Support: The Academic Learning Centre (ALC) offers services that may be helpful to you throughout your academic program. Through the ALC, you can meet with a learning specialist to discuss concerns such as time management, learning strategies, and test-taking strategies. The ALC also offers peer supported study groups called Supplemental Instruction (SI) for certain courses that students have typically found difficult. In these study groups, students have opportunities to ask questions, compare notes, discuss content, solve practice problems, and develop new study strategies in a group-learning format.

You can also meet one-to-one with a writing tutor who can give you feedback at any stage of the writing process, whether you are just beginning to work on a written assignment or already have a draft. If you are interested in meeting with a writing tutor, reserve your appointment two to three days in advance of the time you would like to meet. Also, plan to meet with a writing tutor a few days before your paper is due so that you have time to work with the tutor's feedback.

These Academic Learning Centre services are free for U of M students. For more information, please visit the Academic Learning Centre website at: <http://umanitoba.ca/student/academiclearning/>

You can also contact the Academic Learning Centre by calling 204-480-1481 or by visiting 201 Tier Building.

University of Manitoba Libraries (UML): As the primary contact for all research needs, your liaison librarian (if they weren't recently fired by Central Administration) can play a vital role when completing academic papers and assignments. Liaisons can answer questions about managing citations, or locating appropriate resources, and will address any other concerns you may have, regarding the research process. Liaisons can be contacted by email or phone and are also available to meet with you in-person. A complete list of liaison librarians can be found by subject: <http://bit.ly/WcEbA1> or name: <http://bit.ly/1tJ0bB4>

In addition, general library assistance is provided in person at 19 University Libraries, located on both the Fort Garry and Bannatyne campuses, as well as in many Winnipeg hospitals. For a listing of all libraries, please consult the following: <http://bit.ly/1sXe6RA>. When working remotely, students can also receive help online, via the Ask-a-Librarian chat found on the libraries' homepage: www.umanitoba.ca/libraries

Section (b) Mental Health

For 24/7 mental health support, contact the Mobile Crisis Service at 204-940-1781.

Student Counselling Centre: Contact SCC if you are concerned about any aspect of your mental health, including anxiety, stress, or depression, or for help with relationships or other life concerns. SCC offers crisis services as well as individual, couple, and group counselling. Student Counselling Centre: <http://umanitoba.ca/student/counselling/> 474 University Centre S207 Medical Services (204) 474-8592

Student Support Case Management: Contact the Student Support Case Management team if you are concerned about yourself or another student and don't know where to turn. SSCM helps connect students with on and off campus resources, provides safety planning, and offers other supports, including consultation, educational workshops, and referral to the STATIS threat assessment team. Student Support Intake Assistant <http://umanitoba.ca/student/case-manager/index.html> 520 University Centre (204) 474-7423

University Health Service: Contact UHS for any medical concerns, including mental health problems. UHS offers a full range of medical services to students, including psychiatric consultation. University Health Service <http://umanitoba.ca/student/health/> 104 University Centre, Fort Garry Campus (204) 474-8411 (Business hours or after hours/urgent calls)

Health and Wellness: Contact our Health and Wellness Educator if you are interested in information on a broad range of health topics, including physical and mental health concerns, alcohol and substance use harms, and sexual assault. Health and Wellness Educator <http://umanitoba.ca/student/health-wellness/welcome.html> Katie.Kutryk@umanitoba.ca 469 University Centre (204) 295-9032

Live Well @ UofM: For comprehensive information about the full range of health and wellness resources available on campus, visit the Live Well @ UofM site: <http://umanitoba.ca/student/livewell/index.html>

Section (c) Copyright Information

All students are required to respect copyright as per Canada's Copyright Act. Staff and students play a key role in the University's copyright compliance as we balance user rights for educational purposes with the rights of content creators from around the world. The Copyright Office provides copyright resources and support for all members of the University of Manitoba community. For more information: <http://umanitoba.ca/copyright>

Section (d) Rights and Responsibilities

Your rights and responsibilities: As a student at the University of Manitoba you have rights and responsibilities. It is important for you to know what you can expect from the University as a student and to understand what the University expects from you. Become familiar with the policies and procedures of the University and the regulations that are specific to your faculty, college or school.

The Academic Calendar <http://umanitoba.ca/student/records/academiccalendar.html> is one important source of information. View the sections University Policies and Procedures and General Academic Regulations.

While all of the information contained in these two sections is important, the following information is highlighted.

If you have questions about your grades, talk to your instructor. There is a process for term work and final grade appeals. Note that you have the right to access your final examination scripts.

See the Registrar's Office website for more information including appeal deadline dates and the appeal form: <http://umanitoba.ca/registrar/>

You are expected to view the General Academic Regulation section within the Academic Calendar and specifically read the Academic Integrity regulation. Consult the course syllabus or ask your instructor for additional information about demonstrating academic integrity in your academic work. Visit the Academic Integrity Site for tools and support <http://umanitoba.ca/academicintegrity/> View the Student Academic Misconduct procedure for more information.

The University is committed to a respectful work and learning environment. You have the right to be treated with respect and you are expected to conduct yourself in an appropriate respectful manner. Policies governing behavior are included in the next section.

Section (e) Policies and Services Information

Respectful Work and Learning Environment

Student Discipline

http://umanitoba.ca/admin/governance/governing_documents/students/student_discipline.html

Violent or Threatening Behaviour

http://umanitoba.ca/admin/governance/governing_documents/community/669.html

http://umanitoba.ca/admin/governance/governing_documents/community/230.html

If you experience Sexual Assault or know a member of the University community who has, it is important to know there is a policy that provides information about the supports available to those who disclose and outlines a process for reporting. The Sexual Assault policy may be found at: http://umanitoba.ca/admin/governance/governing_documents/community/230.html More information and resources can be found by reviewing the Sexual Assault site <http://umanitoba.ca/student/sexual-assault/>

Intellectual Property

For information about rights and responsibilities regarding Intellectual Property view the policy:

http://umanitoba.ca/admin/governance/media/Intellectual_Property_Policy_-_2013_10_01.pdf

Department Policies

For information on regulations that are specific to Environment and Geography, read the section in the Academic Calendar for the Department and on:

<http://umanitoba.ca/faculties/environment/departments/geography/index.html>

Contact an Academic Advisor within our faculty/college or school for questions about your academic program and regulations <http://umanitoba.ca/academic-advisors/>

Student Advocacy

Contact Student Advocacy if you want to know more about your rights and responsibilities as a student, have questions about policies and procedures, and/or want support in dealing with academic or discipline concerns. <http://umanitoba.ca/student/advocacy/> 520 University Centre
204 474 7423 student_advocacy@umanitoba.ca