

OFFICIAL UNDERGRADUATE COURSE OUTLINE FORM

Note: The University reserves the right to amend course outlines as needed without notice.

Course Code and Number: GEOG 219	Number of Credits: 4 Course credit policy (105)																
Course Full Title: Biogeography Course Short Title (if title exceeds 30 characters):																	
Faculty: Faculty of Social Sciences	Department (or program if no department): Geography and the Environment																
Calendar Description: Biogeography integrates geography, biology, geology, paleontology, and ecology. Learn how biogeographers study species distribution, track continental drift, and use fossils to help understand evolutionary changes in flora and fauna through geologic time. Note: Field trips outside of class time will be required. Please refer to the department website for field trip scheduling information. Note: This course is offered as GEOG 219 (formerly GEOG 317) and BIO 219 (formerly BIO 317). Students may take only one of these for credit.																	
Prerequisites (or NONE):	One of the following: AGRI 163, BIO 105, BIO 106, BIO 111, CHEM 105, CHEM 110, CHEM 113, CHEM 150, GEOG 101, GEOG 102, GEOG 103, GEOG 116, PHYS 100, PHYS 101, PHYS 105, or PHYS 111.																
Corequisites (if applicable, or NONE):	None																
Pre/corequisites (if applicable, or NONE):	None																
Equivalent Courses (cannot be taken for additional credit) Former course code/number: GEOG 317/BIO 317 Cross-listed with: BIO 219 Equivalent course(s): BIO 219, GEOG 317/BIO 317 <i>Note: Equivalent course(s) should be included in the calendar description by way of a note that students with credit for the equivalent course(s) cannot take this course for further credit.</i>	Transfer Credit Transfer credit already exists: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Transfer credit requested (OReg to submit to BCCAT): <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (if yes, fill in transfer credit form) Resubmit revised outline for articulation: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No To find out how this course transfers, see bctransferguide.ca .																
Total Hours: 90 Typical structure of instructional hours: <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr><td>Lecture hours</td><td style="text-align: center;">26</td></tr> <tr><td>Seminars/tutorials/workshops</td><td style="text-align: center;">26</td></tr> <tr><td>Laboratory hours</td><td style="text-align: center;">16</td></tr> <tr><td>Field experience hours</td><td style="text-align: center;">16</td></tr> <tr><td>Experiential (practicum, internship, etc.)</td><td></td></tr> <tr><td>Online learning activities</td><td style="text-align: center;">6</td></tr> <tr><td>Other contact hours:</td><td></td></tr> <tr><td style="text-align: right;">Total</td><td style="text-align: center;">90</td></tr> </table>	Lecture hours	26	Seminars/tutorials/workshops	26	Laboratory hours	16	Field experience hours	16	Experiential (practicum, internship, etc.)		Online learning activities	6	Other contact hours:		Total	90	Special Topics Will the course be offered with different topics? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, different lettered courses may be taken for credit: <input type="checkbox"/> No <input type="checkbox"/> Yes, repeat(s) <input type="checkbox"/> Yes, no limit <i>Note: The specific topic will be recorded when offered.</i> Maximum enrolment (for information only): 25 Expected frequency of course offerings (every semester, annually, every other year, etc.): Annually
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Department / Program Head or Director: Steve Marsh	Date approved: December 2016																
Faculty Council approval	Date approved: January 2017																
Campus-Wide Consultation (CWC)	Date of posting: March 17, 2017																
Dean/Associate VP: Lucy Lee	Date approved: January 2017																
Undergraduate Education Committee (UEC) approval	Date of meeting: March 24, 2017																

Learning Outcomes

Upon successful completion of this course, students will be able to:

1. describe how continental drift and natural selection are the contemporary paradigms of geology and biology;
2. differentiate between mechanisms that regulate the distribution of flora and fauna;
3. compare biogeographical regions and discuss how these regions might change over time
4. evaluate phylogenetic and cladistic biogeography through geologic time
5. Explain how North America was colonized by people;
6. Relate environmental change to aspects of indigenous cultures;
7. keep professional field and laboratory notes;
8. Use relevant data analysis, statistics, and presentation software to present concepts in written and visual form.

Prior Learning Assessment and Recognition (PLAR)

Yes No, PLAR cannot be awarded for this course because

Typical Instructional Methods (guest lecturers, presentations, online instruction, field trips, etc.; may vary at department's discretion)

Course format will include lectures, presentations, discussions, laboratory sessions and field trips.

Grading system: Letter Grades: Credit/No Credit: Labs to be scheduled independent of lecture hours: Yes No

NOTE: The following sections may vary by instructor. Please see course syllabus available from the instructor.

Typical Text(s) and Resource Materials (if more space is required, download Supplemental Texts and Resource Materials form)

	Author (surname, initials)	Title (article, book, journal, etc.)	Current ed.	Publisher	Year
1.	Cox, C.B., P.D. Moore, R.J. Ladle	Biogeography: An ecological and evolutionary approach, 9 th Edition	<input type="checkbox"/>	Wiley Blackwell	2016
2.			<input type="checkbox"/>		
3.			<input type="checkbox"/>		
4.			<input type="checkbox"/>		
5.			<input type="checkbox"/>		

Required Additional Supplies and Materials (software, hardware, tools, specialized clothing, etc.)

Laboratory and field notebook.

Typical Evaluation Methods and Weighting

Final exam:	15%	Lab assignments:	20%	Midterm exams:	25%	Blogs:	10%
Quizzes/tests:	%	Lab work:	%	Field experience:	20%	Shop work:	%
Presentation:	5%	Participation	5%			Total:	100%

Details (if necessary):

Typical Course Content and Topics

When offered as a lecture course with field and laboratory components:

1. The History of Biogeography
2. Patterns and Distribution
3. Communities and Ecosystems
4. Patterns of Biodiversity
5. Plate Tectonics
6. Evolution, the Source of Novelty
7. Life, Death and Evolution on Islands
8. From Evolution to Patterns of Life
9. Patterns in the Past
10. Setting the Scene for Today
11. Ice and Change
12. The Human Intrusion
13. Conservation of Biogeography

Each course offering includes a minimum of eight laboratory/field activities. Examples of such activities include a field assessment of wetland sediments as archives of past environmental change, and opportunities to process field-collected samples to identify microfossils (e.g., pollen, diatoms, and testate amoebae). Computer-assisted exercises provide practice with quantitative methods. Blackboard Learn is used to organize course material, discuss course topics, complete fossil-identification exercises, and write exams.