

BIOGEOGRAPHY: 416-340, SE001, Fall Semester, 2009

Class Meetings: TR 9:30 AM-10:45 AM, Bolton B95

Instructor: Glen Fredlund, **Office:** 486 Bolton Hall

Office Hours: TR 11:00 - 12:30 or by appointment

Phone: 229-6112 (Direct) or 229-4866 (Geog. Dept.);

Email: fredlund@uwm.edu

INTRODUCTION:

The objective of this course is to introduce students to biogeography: the geography of biodiversity. Both historical-taxonomic and ecosystems biogeography and their implications are covered. No prior knowledge or course work is required, but a general background biology, physical geography, and ecology is strongly recommended.

The theory of **biological evolution** is central to all aspects of biogeography. If your personal spiritual beliefs conflict with the science of biogeography you should make an appointment with me so that we can affirm that this class is appropriate for your needs.

REQUIRED TEXT BOOKS: Fundamentals of Biogeography, 2th ed., by Richard John Hugget.

Additional on-line readings may be assigned.

SUGGESTED READING: The Song of the Dodo by David Quammen, 1996

LECTURE CONTENT: Keyword lecture outlines, links, assignments, and course information will be available on d2L

H1N1: In the event of disruption of normal classroom activities due to an H1N1 swine flu outbreak, the format for this course may be modified to enable completion of the course. In that event, you will be provided an addendum to this syllabus that will supersede this version.

Mandatory Furlough Days: All faculty are required to take furlough days. By federal law I am unable to respond to any work related request on those days, including emails.

EXAMINATIONS AND GRADING:

There are a total of 300 possible points. Approximately 13% of the points are earned through in-class activities, quizzes, and attendance. Another 13% of your evaluation is derived from short “take-home” assignments and/or on-line quizzes. Your final paper/project on a topic of your choosing is worth 80 points (~27%). The remainder of your points come from the midterm and final exams (60% of your grade)

Attendance/Quiz	40 pts.	13.33%
Assignment/On-Line Quiz	40 pts.	13.33%
Paper/Project	50 pts.	16.67%
Midterm Exam	80 pts.	26.67%
<u>Final Exam</u>	<u>100 pts.</u>	<u>33.33%</u>
Total Points	300 pts.	100.00%

ONE 80 point mid-term tests will focus on terms and concepts from the preceding lecture and readings. Exams will be definition, short answer, and discussion. A similar 80 point final exam at the end of the semester will cover the final third of course materials and include some

comprehensive questions on the course as a whole. The final exam will be, Tue., Dec 10:00 – 12:00 noon. All students are required take the final exam at this time.

Make-up Exams: Except under dire circumstances, substantiated by authentic written documentation, no makeup exams will be given. If you must miss an exam contact me as early as possible, preferably before the exam. Late makeup examinations will vary in content from the regular class exam. There are no “make-ups” for missed assessments or d2L quizzes unless you can document an extended personnel emergency or illness

Grading: Your final grade for the class will be based on your performance within the total class curve. The sum of your total points, not the average of exam letter grades, will be used to rank your performance within the class. The grading curve may fluctuate with class performance. Maximum breaks-point for percentage of total points needed for letter grades are: A=90%, B=80%, C=70%, and D=55%. The grading curve may be lowered, but not raised above these guaranteed percentages.

Desire-to-Learn (d2L): All course materials, lecture outlines, discussion, and grades will be posted through the class d2L web site. It is critical that you become comfortable with using this software.

Email Correspondence: Email is the best way to get in touch with me (fredlund@uwm.edu). When contacting me by email, always: 1) use an appropriate subject line such as “**GEOG 340**,” 2) email me from your own account (preferably you UWM address), and 3) include your first and last names at the end of the email.

Voluntary Field Trip: If there is enough student interest we will organize one or more field trips within the region, possibly to the UWM field station.

OTHER COURSE POLICIES AND GUIDELINES:

Accommodations for Religious Observances: Students will be allowed to complete examinations or other course requirements at an alternative date and time if their participation in a religious observation prevents them from completing the assignment on the scheduled date. The student is responsible for contacting his/her professor during the first two weeks of the semester regarding the need to reschedule the assignment dates.

Change of Grades: Professors and instructors may not change a course grade after the grade sheet has been submitted to the Registrar except for an inadvertent error in determining or recording the grade or in the case where the original grade was an incomplete. Any change in a student's grade or record, including retroactive change to drop, withdrawal, or incomplete, must receive the approval of the Dean of the School or College in which the student was enrolled at the time the course was taken.

Incompletes: An incomplete may be given in lieu of a final grade only if the student has completed the course successfully until near the end of the semester/session but, because of an illness or other unusual and substantiated cause beyond his/her control, can not complete a final project/paper or examination. The student must be able to provide his/her professor or instructor with written, verifiable and acceptable proof of a medical or family emergency. This proof must clearly indicate that the emergency prevented the student from completing the assignment(s).

Equal Treatment: The principle of equal treatment of all students is a fundamental guide in responding to requests for special consideration. No student shall be given an opportunity to improve a grade that is not made available to all members of the class. This policy is not intended to exclude reasonable accommodation of verified student disability or the completion of work missed as the result of religious observance, verified illness, or justified absence due to circumstances beyond a student's control.

Participation by Students with Disabilities: Students who need accommodations to meet the requirements in any course should contact the professor, instructor, or teaching assistant of the course no later than two weeks after the beginning of the course.

Grievance Policy and Procedure: If, for any reason, you believe that you are being treated unfairly within this course your first step is to see me, the instructor. If the perceived problem cannot be satisfactorily resolved through instructor-student mediation, you must next make an appointment to see the chairperson of the Department of Geography. Information regarding the policies and procedures applicable to this course are available on request at the Geography Department main office, Bolton 410 or http://www.uwm.edu/lets/grievance_procedure.pdf.

Sexual Harassment: Sexual harassment will not be tolerated by the University of Wisconsin-Milwaukee. If you believe you have been sexually harassed by a member of the instructional or administrative staff of the Department of Geography, you should contact the Chair of the Department of Geography, the Associate Dean of Social Sciences, or the Dean of the College of Letters and Science

Academic Integrity and Academic Misconduct: Each student has an obligation to act with honesty and integrity, and to respect the rights of others in carrying out all academic assignments.

Academic Misconduct may result in the immediate failure of the course in which the misconduct occurs. Academic misconduct will be reported to the Investigating Officer of the College of Letters and Science and additional sanctions may be recommended. A student may be found to have violated this obligation and to have engaged in academic dishonesty if during or in connection with any academic evaluation, if he/she:

- A. Refers to materials or sources or employs devices (e.g., audio recorders, crib sheets, calculators, solution manuals, or commercial research services) not authorized by the instructor for use during the academic evaluation;
- B. Possesses, buys, sells, obtains, or uses, without appropriate authorization, a copy of any materials intended to be used for academic evaluation in advance of its administration;
- C. Acts as a substitute for another person in any academic evaluation;
- D. Uses a substitute in any academic evaluation;
- E. Depends on the aid of others to the extent that the work is not representative of the student's abilities, knowing or having good reason to believe that this aid is not authorized by the instructor.
- F. Provides inappropriate aid to another person, knowing or having good reason to believe the aid is not authorized by the instructor;
- G. Permits his or her work to be submitted by another person without the instructor's authorization; or
- H. Attempts to influence or change any academic evaluation or record for reasons having no
- I. relevance to class achievement

J. Engages in any form of academic deceit, (including **cheating, fabrication, and plagiarism**);.

Plagiarism: means using another's words, ideas, materials or work without properly acknowledging and documenting the source. Students are responsible for knowing the rules governing the use of another's work or materials and for acknowledging and documenting the source appropriately. Examples: a) Failing to cite any major idea created by some other person or entity; b) Failing to cite and/or enclose in quotation marks all words, phrases or sentences copied from another source' c) Failing to cite paraphrased work of others; d) Acquiring a paper or project from a research service or another source and submitting it as your own work for academic evaluation.

TENTATIVE SCHEDULE FOR READINGS AND IN-CLASS DISCUSSION:

<u>MO</u>	<u>DAY</u>	<u>LECTURE TOPIC</u>	<u>#</u>	<u>READING</u>
Sep	03	Introduction To Class	1	Ch. 01
	08	History of Biogeography	2	Ch. 02
	10	Scientific Methods and Biogeog.	3	
	15	Basics of Taxonomy: Kingdom Animale	4	
	17	Kingdom: Plantae	5	
	22	Models of Speciation	6	Ch. 02
	24	Ecology and Geography of Species	7	Ch. 05
	29	Geography of Physiological Adaptation	8	Ch. 06
	Oct	01	Models of Range Disjuncture	9
06		Plant Migration: Modes of Dispersal	10	
08		Animal Dispersal and Migration	11	Ch. 03
13		Global Biogeographic Realms	12	Ch. 04
15		Patterns of Evolutionary Disjuncture	13	
20		Cladistic and Biogeography	14	Ch. 14
22		Plate tectonics and Biogeography	15	
27		Midterm Exam	16	
29		Community Ecology History	17	Ch. 07
Nov		03	Community Ecology Basics	18
	05	North American Communities	19	Ch. 09
	10	Biomes and Climate	20	Ch. 06
	12	Ecology, Process, and Patterns	21	Ch. 12, 13
	17	Island Biogeography	22	
	19	Landscape Ecology	23	Ch. 10
	24	Patterns of Biodiversity	24	Ch. 11
	26	Thanksgiving		
Dec	01	Quaternary Paleoecology	25	Ch. 16
	03	Pollen and Other Proxies	26	
	08	Phytoliths and grasslands	27	Ch. 17
	10	Transforming the Planet	28	Ch. 18
	22	FINAL EXAM: Tues. 10:00-12:00 Noon		