

Fall 2015

BIOS 1073

Larry Dew
University of New Orleans

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BIODIVERSITY - BIOS 1073
SYLLABUS FALL 2015

INSTRUCTOR: Dr. Larry Dew

Office: Bio 204 **E-mail:** jl Dew@uno.edu **Office telephone:** 280-6308

Office hours: Mondays 12-2 and Wednesdays 12-1. The teaching assistant will also hold office hours to be announced in the UNO Biology Learning Center in 2105 Sciences.

SCHEDULE: Mon-Wed -Fri 10:00-10:50, room Liberal Arts 140.

TEXTBOOK AND COURSE MATERIALS: Campbell, NA & JB Reece. 2013. *Biology*. 10th Edition (ISBN 10:0-321-77565-1 with Masteringbiology online homework exercises). The digital version of the textbook is cheaper than the hardback and is available at www.masteringbiology.com. You will also need an *i>clicker*: (ISBN 0-716779390). Both of these resources are available at the UNO bookstore. *i>clicker* allows you to answer questions posed during class, and you will be graded on this in-class participation. In order to receive this credit, you will need to register your *i>clicker* remote online before the end of the first week of class. You must have come to class and voted on at least one question in order to complete this registration. Once you have voted on a question in class, go to <http://www.iclicker.com/registration>. Complete the fields with your first name, last name, student ID# (actually your UNO email address) and remote ID. The remote ID is the series of numbers and sometimes letters found on the bottom of the back of your *i>clicker* remote. The *i>clicker* will be used every day in class, and you are responsible for bringing your remote daily.

COURSE DESCRIPTION AND CONTENT: *Biodiversity* provides an introduction to the principles of genetics, systematics, evolution, and ecology, and their roles in producing, maintaining, and understanding biological diversity. Lectures will survey the classification, diversity, ecology, and economic and/or medical significance of the major groups of living things, and explore current theory on the origin and history of life.

STUDENT LEARNING OUTCOMES: The basic goal of *Biodiversity* is to establish an understanding and appreciation of the great diversity and complexity of the living systems that inhabit the Earth's biosphere. Specifically, students are expected to:

Describe and summarize facts, principles, and concepts about the diversity of life on Earth, how it evolved over time, and the ways that humans are affecting it.

Use evidence and logic to connect ideas and information linking genetics with evolutionary change, and linking biological and industrial processes with environmental effects.

Understand and be able to explain how and why we study ecology, evolutionary biology, conservation biology, and environmental science.

PREREQUISITES: All students registered for BIOS 1073 must be eligible for, be currently enrolled in, or have credit for MATH 1125 and ENGL 1157.

MOODLE: Class lectures and grades will be posted to the university's online classroom via the Moodle webpage. (See <http://uno.mrooms3.net/>) Lecture outlines will be available on Moodle after each lecture. Students are expected to access Moodle frequently for announcements regarding exams, helpful internet links, etc. At <http://www.moodlerooms.com/resources/tutorials/participate/> you will find topics such as how to login, and a list of frequently asked questions.

STUDENT CONDUCT: ATTENDANCE: UNO faculty are required to take attendance in all 1000 & 2000 level courses. You must sign an attendance sheet that will be circulated during class, and missing class will result in a grade penalty. The questions that you answer with the *i>clicker* will be a second way of ensuring that you have a good attendance record in this class.

LECTURES: Arrive in class on time. ALL CELL PHONES MUST BE TURNED OFF DURING LECTURE. STUDENTS WITH LAPTOPS MUST NOT HAVE SOCIAL MEDIA OR NONACADEMIC APPLICATIONS OPEN DURING CLASS TIME. Doing so disrupts the entire class and will count against your grade. Do not leave class early. If you feel sick or if you have a medical appointment during class time, it is better NOT to attend class than to interrupt lecture by leaving class early. Lectures will include material not provided in the text or on Moodle,

and this material will be included on the exams.

Feel free to ask me questions at any time during class, but please do not ask other students. Talking disturbs me and prevents other class members from hearing the lecture. Distracting interruptions like texting during lecture are inconsiderate and disrespectful to the instructor and to fellow students. Those who fail to follow these rules of conduct will be asked to leave the class.

Students are expected to treat faculty and fellow students with respect. Any actions that purposefully and maliciously, or even unintentionally distract the class from the work at hand will not be tolerated and may meet with disciplinary action through formal university channels.

EXAMS & GRADES: Twenty five percent of the final grade in this course will depend on quiz questions and exercises that we will do during class and in homework. Active participation in every lecture will be essential. The rest of the grade will be determined with **four non-cumulative interim exams**, each of which will constitute **25 percent of your grade**. An optional cumulative final exam will also be offered during exam week. Students who take at least four exams will have their lowest exam grade dropped. Additional information about exam format and content will be given during lectures. Make-up exams will be given only if the student provides a written statement from a physician, or if there is a death in the immediate family. A missed exam will be given a zero unless a written excuse is obtained from a physician, or from the Dean's office. Grades are based upon a curve, with the average grade in the class constituting the middle of the "C" range and determining the spreads of the other letter grades.

PLEASE NOTE: Additional information concerning exam content will be announced in lecture and on Moodle. **Do not contact the instructor by telephone or e-mail with questions about exam content. Such inquiries will receive no response.**

ACADEMIC INTEGRITY: Academic integrity is fundamental to the process of learning and evaluating academic performance. Dishonesty will not be tolerated. Academic dishonesty includes, but is not limited to cheating, plagiarism, tampering with academic records and examinations, falsifying identity, and being an accessory to acts of academic dishonesty. Yes, using a cell phone during an exam constitutes cheating. Refer to the UNO Judicial Code for further information: (<http://www.uno.edu/student-affairs-enrollment-management/documents/academic-dishonesty-policy-rev2014.pdf>).

DISABILITY ACCESS STATEMENT: Accommodations will be made for students with disabilities. It is the responsibility of the student to register with the Office of Disability Services (UC 260) each semester and follow their procedures for obtaining assistance.

TENTATIVE LECTURE SCHEDULE

Students are expected to use this syllabus to gain information about the readings that should be done before, and in preparation for class.

<u>Week of</u>	<u>Topics and Readings</u>	
August 19	Information about the class and exams.	
	Overview. Nature of Science.	Chapter 1: Concepts 1.1 to 1.6
August 24	The cell cycle.	Chapter 12: Concepts 12.1 to 12.3
	Meiosis and sexual life cycles.	Chapter 13: Concepts 13.1 to 13.4
Sep 4	Labor Day Holiday – online exercise. No lecture	
Aug 31	Genetics (1).	Chapter 14: Concepts 14.1 to 14.4
Sep 9	Genetics (2).	Chapter 23: Concepts 23.1 to 23.4
Sep 14	Evolution in natural populations	Chapter 22: Concepts 23.1 to 23.4
	The Origin of Species.	Chapter 24: Concepts 24.1 to 24.3
Monday Sep 21	Exam 1	
Sep 23	The history of life.	Chapter 25: Concepts 25.1 to 25.3
	Phylogeny and the tree of life.	Chapter 26: Concepts 26.1-26.6
Sep 28	Prokaryotes. Protists.	Chapter 27: Concepts 27.1-27.5
		Chapter 28: Concepts 28.1-28.8
Oct 5	Plant diversity (1).	Chapter 29: Concepts 29.1 to 29.4
		Chapter 30: Concepts 30.1 to 30.4
Oct 12	Plant diversity (2).	Chapter 38: Concepts 38.1 to 38.4
	Fungi.	Chapter 31: Concepts 31.1 to 31.5
October 14 - Last day to drop classes and receive a W		
(Friday Oct 16) Midsemester Break – No lecture		
Monday Oct 19	Exam 2	

Oct 21	Intro to animal diversity. Animal embryology	Chapter 32: Concepts 32.1 to 32.4 Chapter 46: Concept 46.5
Oct 26	Invertebrates (1)	Chapter 33: Concepts 33.1 to 33.8
Nov 2	Invertebrates (2) Chordates, Vertebrates. Animal form, function, digestion	Chapter 33 continued. Chapter 34: Concepts 34.1 to 34.8 Chapter 40: Concepts 40.1 to 40.4 Chapter 41: Concepts 41.1 to 41.5 Chapter 42: Concepts 42.1-42.3 Chapter 44: Concepts 44.1-44.3
Monday Nov 9	Exam 3	
Nov 11	Introduction to Ecology. Behavioral Ecology.	Chapter 52: Concepts 52.1 to 52.4 Chapter 51: Concepts 51.1 to 51.6
Nov 16	Population Ecology. Community Ecology.	Chapter 53: Concepts 53.1 to 53.6 Chapter 54: Concepts 54.1 to 54.5
Nov 23	Ecosystems.	Chapter 55: Concepts 55.1 to 55.5
November 25, 27	Thanksgiving Break - No lecture	
November 30	Biodiversity and Conservation.	Chapter 56: Concepts 56.1 to 56.5
Friday Dec 4	Exam 4	
Exam Week	Optional Cumulative Final Exam	

Happy Holidays