

University of Detroit Mercy

General Biology II (BIO 122)

Credits: 3.0

Times: MWF 1:00 to 1:50

Instructor: Dr. Barbara Hollar

Semester: Winter 2004

The textbook for this course is Purves WK, Sadava D, Orians GH, Heller GH. 2001. Life 6th ed. Sunderland, Mass: Sinauer Associates, Inc. 1044p.

Course objectives:

1. To develop an understanding of the types of questions biologists ask and the methods by which scientific evidence is gathered and evaluated.
2. To provide a knowledge base in the biological sciences that will enable you to begin reading the literature in the field.
3. To develop an appreciation of the life systems that sustain us and an understanding of man's place in the ecosystem.

Methods:

The course is a traditional lecture series supplemented with audiovisual aids. The course is accompanied by a laboratory in which you will observe the biological and chemical phenomena described in lecture.

Grading:

The grading will be based upon a 500 point system. There will be four exams of 125 points each. The scale will be:

450 and up = A 390 - 399 = B- 315 - 324 = D+

440 - 449 = A - 380 - 389 = C+ 275 - 314 = D

430 - 439 = B+ 335 - 379 = C Below 275 = F

400 - 429 = B 325 - 334 = C-

The exam dates are listed on the schedule. Three hourly exams will be given during the term. The fourth hourly will be given during the first hour of the final exam period. Only those topics that are covered in lecture will be on the exam. Topics which are in the book but not covered in class are NOT on the exam. Topics which are covered in class, but which are not in the book ARE on the exam. Calculators are not permitted during

examinations. Answers to the exams will be posted in the door of LS 220/ 221. You have until the next exam to correct any errors in grading on your paper. After the next exam has been given there will be no further reviews of grades from previous exams. If you miss an exam, the make-up exam will be an essay exam given during the second hour of the final exam period. If you miss two exams with legitimate excuses such as hospitalization, please make an appointment with me to discuss a schedule for making up the work.

Office hours:

My office is Life Science 221. You may stop by during office hours or you may make a specific appointment with me. My office hours are posted on the door and on the web at <http://ids.udmercy.edu/hollar/biotutor>. My office phone is (313) 993-1408, and you are welcome to call with questions, but do not call to tell me that you will not be in class. My e mail address is hollarba@udmercy.edu. I usually check my e mail every day and I will write back to you as quickly as I can. If we have a snow emergency, the University will post that information through WDIV, and information concerning this class will appear on Blackboard under my name. All of my courses are listed under BIO 100 so look there.

Attendance:

I do not take attendance, but I strongly advise you to come to class. If you choose to come to class, I expect that you will give the subjects being discussed your full attention. It is discourteous to fellow students to disrupt class by moving about the room. If you must leave the room in an emergency, quietly take a seat in the back when you return. If you are absent from class, you are responsible for getting notes from another student. If I feel that you are being disruptive, I may ask you to leave the class. Please do so quickly and quietly. You may return the following class period.

Plagiarism and Academic Honesty:

The web page explaining the use of sources is an official part of this syllabus (see attached page). I take cheating on exams and plagiarism very seriously and will report you to University authorities if I catch you cheating. Obviously, you will also receive no credit for the work you turned in that was not your own. Persons who have been disciplined for cheating are generally not acceptable candidates for admission to medical or dental school.

DATES LECTURE CHAPTER

Jan. 05, 07 Genes within populations 21

09, 12 Origin of Species 22

14, 16 Evidence for Evolution 23,24

21, ,23 Evolutionary History 25,20

26 Primitive invertebrates 31

28 EXAM

Feb. 30, 02 Mollusks and annelids 31
04 Arthropods 32
06 Echinoderms and chordates 33
09 Organization of the body/ homeostasis 40
11, 13 Hormones 41
16, 18 Reproduction 42
20 EXAM
23 Development 43
25 Immunity 19
Mar. 27, 08, 10 The nervous system 44, 46
12 Locomotion 47
15 Gas Exchange 48
17, 19 Circulation 49
22 Digestion 50
24 Salt and water balance 51
26 EXAM
Apr. 29, 31, 02 Animal behavior 52, 53
05, 07 Populations 54
12, 14 Communities 55
16 Ecosystems 56, 57
20 FINAL EXAM 2:00 to 4:00. This is a Tuesday

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