

UC 1064209F

CBM003 ADD/CHANGE FORM

APPROVED FEB 9 4 2009

Undergraduate Council
 New Course Course Change
 Core Category: ActSci Effective Fall 2010

30

or

Graduate/Professional Studies Council
 New Course Course Change
 Effective Fall ____

RECEIVED OCT 16 2009

- Department: Biology and Biochemistry College: NSM
- Faculty Contact Person: L. Rapp Telephone: 3-8398 Email: Lrapp@uh.edu
- Course Information on New/Revised course:
 - Instructional Area / Course Number / Long Course Title:
BIOL / 1310 / General Biology
 - Instructional Area / Course Number / Short Course Title (30 characters max.)
BIOL / 1310 / GENERAL BIOLOGY
 - SCH: 3.00 Level: FR CIP Code: 26.0101.00 02 Lect Hrs: 3 Lab Hrs: 0
- Justification for adding/changing course: To reflect change in prerequisite course
- Was the proposed/revised course previously offered as a special topics course? Yes No
 If Yes, please complete:
 - Instructional Area / Course Number / Long Course Title:
____ / ____ / _____
 - Course ID: _____ Effective Date (currently active row): _____
- Authorized Degree Program(s): B.S. Biology
 - Does this course affect major/minor requirements in the College/Department? Yes No
 - Does this course affect major/minor requirements in other Colleges/Departments? Yes No
 - Can the course be repeated for credit? Yes No (if yes, include in course description)
- Grade Option: Letter (A, B, C ...) Instruction Type: lecture ONLY (Note: Lect/Lab info. must match item 3, above.)
- If this form involves a change to an existing course, please obtain the following information from the course inventory: Instructional Area / Course Number / Long Course Title
BIOL / 1310 / General Biology
 - Course ID: 13329 Effective Date (currently active row): 1999
- Proposed Catalog Description: (If there are no prerequisites, type in "none".)
 Cr: 3. (3-0) Prerequisites: MATH 1310 or MATH 1311. Credit may not be received for both BIOL 1361:1362 and 1310:1320 Description (30 words max.): Designed for nonscience majors; does not satisfy requirements for biology majors and preprofessional students. Introduction to general principles of biology with special orientation toward man and the natural world.
- Dean's Signature: _____ Date: 13 Oct '09
 Print/Type Name: _____

JANERO

U N I V E R S I T Y of H O U S T O N

CORE CURRICULUM COURSE REQUEST

Originating Department/College: Dept. of Biology and Biochemistry/NSM

Person making request: L. Rapp Telephone: 3-8398

E-mail: Lrapp@uh.edu

Dean's signature: _____ Date: 2/11/10

I. General Information:

Course number and title: BIOL 1310- General Biology

Catalog description must be included on completed CBM 003 form and attached to this document.

Category of Core for which course is being proposed (mark only one):

- Communication
- Mathematics
- Mathematics/Reasoning (IDO)
- American History
- Government
- Humanities
- Visual/Performing Arts Critical
- Visual/Performing Arts Experiential
- Natural Sciences
- Social/Behavioral Sciences
- Writing in the Disciplines (IDO)

II. Objectives and Evaluation (respond on one or more separate sheets):

Call ext. 3-0919 for a copy of "Guidelines for Requesting and Evaluating Core Courses" or visit the website at www.uh.edu/academics/corecurriculum

- A. How does the proposed course meet the appropriate Exemplary Educational Objectives (see **Guidelines**). Attach a syllabus and supporting materials for the objectives the syllabus does not make clear.

Please see attached syllabus and CBM003 form. The only change is the following:

The catalog description for BIOL 1310 and 1320 currently includes the statement "Credit may not be received for both BIOL 1161,1361:1162,1362 and 1310:1320." In this statement BIOL 1161 and 1162 are superfluous because they are one credit-hour lab courses that have no relationship (or possible replacement value) with BIOL 1310 and 1320. They are eliminated in the wording of new catalog description that reads: "Credit may not be received for both BIOL 1361:1362 and 1310:1320."

BIOLOGY 1310 COURSE OUTLINE

Dr. L. R. Williams, 124D Science Building phone: 743-2637, email: lrwilliams@uh.edu

OFFICE HOURS: TUESDAY, 10:30 TO 11:30 AM, WEDNESDAY, 10:30 TO 11:30 AM or BY APPOINTMENT. Contact me by email for appointments.

WEEK OF:	TOPICS	CHAPTERS
25 Aug	Introduction; Life, Science, and Society	1
1 Sep	Chemistry of Life, Molecules	2,3
8 Sep	Molecules; Structure, Energy, and Function of Cells	4, 5
15 Sep	Energy, Enzymes, and the Cell Membrane; EXAM ONE	5
22 Sep	Energy of Life; Cellular Respiration	6
29 Sep	Cellular Respiration; Photosynthesis	6,7
6 Oct	Cellular Reproduction; Introduction to Genetics	8,9
13 Oct	Patterns of Inheritance; EXAM TWO	9
20 Oct	Molecular Genetics, Control of Gene Expression	10,11
27 Oct	Control of Gene Expression; Biotechnology	11, 12
3 Nov	Biotechnology; Introduction to Evolution	12, 13
10 Nov	Population Genetics and Evolution; EXAM THREE	13, 14
17 Nov	Evolution and Evolutionary History	15
24 Nov	Evolution of Life; THANKSGIVING HOLIDAY	16, 17
1 Dec	Living Things Invades Land; Animal Diversity	18, 19

FINAL EXAM IS 2 PM THURSDAY, 18 DEC 2008

Exams will be taken as scheduled on Thursdays. **THERE WILL BE NO MAKE-UP EXAMS.** All FOUR Exams will be 50 questions (points) each. Your grade will be determined from a possible total of 200 EXAM points plus an undetermined point total from in-class quizzes using your PRS ("clicker"). **THERE IS ABSOLUTELY NO EXTRA CREDIT.**

Monday, 8 Sep 08: last day to drop without a grade or without counting toward your enrollment cap.

Tuesday 4 Nov 08: last day to drop the course with a "W." My signature is required.

TEXT: Biology, concepts and connections, 6th edition, by Campbell et al. No other books are required. You also must purchase the Interwrite[™] PRS, model R1 personal response system, aka "clickers," (available in the UH bookstore). You do not need to register this clicker. The system used is self-contained in the classroom. For information on its use go to:

Clicker Overview (for Students or Faculty)

<http://www.interwritelearning.com/support/tutorials/rfoverview.html>

Clicker Overview for Students - from Boston College (Hilarious four minute animated video)

<http://www.bc.edu/offices/instruction/clicker/>

Additional use of the Clickers will include 1) survey questions to assess options and 2) questions imbedded in lectures to assess comprehension.

THIS SCHEDULE IS SUBJECT TO CHANGE WITHOUT NOTICE.

ALL VIOLATIONS OF ACADEMIC HONESTY WILL BE HANDLED IN MOST SERIOUS MANNER.

GOALS (what you should take away from this class):

1. Better understand living things from a genetic and molecular perspective.
2. Develop an appreciation of how science is conducted and how information is discovered.
3. Appreciation of the beauty in the combination of chemistry, physics, and biology as forces influencing living things.
4. Better ability to critically consider scientific (or any other) information and evaluate science in your everyday life.

SUGGESTIONS TO HELP YOU WITH THIS COURSE:

1. Come to class. You chose this class at this time and it is costing someone money for you to be here. Get your money's worth.
2. Take good notes. I will try to keep the material organized using topic headings and some form of outline.
3. Read your textbook. Minimally, read what is covered in lecture. Better yet, read each chapter completely while focusing on lecture topics. I may add supplemental material to read as appropriate current articles or information comes available.
4. Pay close attention to graphs, figures, and pictures that illustrate concepts and ideas.
5. Study. Keep up (or ahead?). Use any study aids you have. If possible, **organize a study group** of classmates. I do not expect that you will properly understand what is covered in a lecture at the end of that lecture. You will need to look your notes over, read the text, and think about things. Most importantly, do not expect to "learn" everything the weekend (or night!) before the exam.
6. If you need help, contact me. I have office hours set. I will return your emails and calls. If necessary, I will make an appointment with you to help. Do not wait until it is too late.
7. Do not consider what we cover as a series of facts to memorize, rather make everything a process that make sense.

ABOUT THE PROFESSOR:

I received his Ph. D. from the University of Houston working on Attwater's pocket gopher on the coastal prairie in south Texas. Prior to that I completed a B. S. in Biology at Central State University (currently University of Central Oklahoma) in Edmond, OK. After that and before coming to UH, I completed a M. S. in Biology at Fort Hays Kansas State University in Hays, KS. My primary area of interest is Ecology and Evolution (along with fishing the coastal waters of Texas). I have worked with several species of grassland mammals and the plants of their native habitat. More recently my work has been on imported red fire ants and some aquatic biology of ephemeral ponds. Besides classroom education, I was the Director of Undergraduate Affairs and Advising (19 years) for the Department of Biology and Biochemistry and am currently the Department's Director of Undergraduate Research. I've been at UH since 1977 and have been teaching BIOL 1310 and 1320 since spring 1986.

I have been active throughout the University serving on various committees and task forces and sponsoring student organizations. My biggest commitment is as a long-serving member of UH Undergraduate Council as a member, committee chair, and Chair of the Council. I am UC Chair for this current academic year.