

TROY UNIVERSITY Southeast REGION

COURSE SYLLABUS BIOLOGY 1100

Term 4- 2013

LOCATION/TIME: Ft. Walton Beach- Tuesday 5:00Pm to 10:00PM

TEXTBOOK: TEXTBOOK(S) AND/OR OTHER MATERIALS NEEDED:

Essentials of Biology

Author: Mader & Windelspecht

Edition: Third Edition

ISBN-10: 978-0-07352551-8

Students should have their text the first DAY of class. Chapters 1 through 4 should be read prior to class.

There is NOT a need for the virtual lab access- that is for the Distance Learning only. *Your lab course has it's own separate syllabus and schedule*

INSTRUCTOR: Dennis M. Mitchell, home: 850-652-4326

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EDUCATION

M.S. Zoology, Louisiana State University

B.S. Zoology, Louisiana State University

CATALOG DESCRIPTION:

BIO 1100 is an overview of biology that includes scientific methods, biological chemistry, cell biology, biological energy transformations, physiology, genetics, gene expression and regulation, population genetics, and ecology.

COURSE CONTENT:

The course will survey the basic principles of Biology. Students will learn how to use the scientific method and how to apply this to the study of biology. From there the student will learn about the basic chemistry of life. The class will then focus on the cell, starting with basic cell biology, followed by energy systems in the cell, DNA replication and protein synthesis, and then cell division. After the cell, the class will learn basic Mendelian genetics, and learn about genetic disorders. The focus of the class will shift to ecology, including lectures on population dynamics, community interactions, ecosystems, nutrient and water cycles, and animal behavior. Evolution will be discussed either separately or as a part of the ecological material in the class. Biotechnology will also be addressed. From the course, students will gain an appreciation for complexity and diversity of life, a basic factual knowledge of biological concepts, and an understanding of the complex interactions which fill our living world.

STUDENT LEARNING OUTCOMES:

Students will gain a practical and applied understanding of general biology that includes scientific methods, biological chemistry, cell biology, biological energy transformations, physiology, genetics, gene expression and regulation, population genetics, and ecology.

PURPOSE (COURSE OBJECTIVES):

BIO 1100 offers students the following opportunities:

- (1) to gain basic knowledge of facts and concepts in biological science;
- (2) to understand the ultrastructure, cellular processes, chemistry, and physiology of biological systems;
- (3) to comprehend molecular and Mendelian genetics and their applications in the allied health professions;
- (4) to practice the scientific method of investigation;
- (5) to realize the impact of humans in shaping the world environment;
- (6) to gain insight into the complexity of life from the molecular level to the ecological level;
- (7) to become more aware of the need to conserve natural resources.

PREREQUISITES: None.

COREQUISITES: BIO L100. Students must register for both the lecture (BIO 1100) and lab (BIO L100) concurrently unless they are repeating the lecture or lab. If a student drops the lecture (BIO 1100), then the student **MUST** also drop the lab (BIO L100).

ENTRANCE COMPETENCIES:

Student must possess the knowledge and skills of a high school graduate and the capability to perform on a college level.

METHOD OF INSTRUCTION & Student Expectation:

The lecture method is predominant with in class demonstrations. Consistent preparation by the student on the scheduled material, primarily from the text, *before class* is required and attendance at all scheduled class meetings are essential. Lectures include interactive discussions on the assigned material as well as less formal encounters with current events that relate to the

course in general. Students are encouraged to bring up additional topics of interest so long as they are appropriate to the course and do not distract from the primary text oriented criteria.

METHOD OF EVALUATION:

Test #1- take home- 20%
Test #2- in-class- 30%
Test #3- comprehensive final- 40%

Attendance and Participation in the classroom discussions 10%
Extra credit option 5%

ASSIGNMENT OF GRADE:

Upon timely completion of required graded material, the following scale will apply

- A. 90- 100
- B. 80-89
- C. 70-79
- D. 60-69
- F. Below 60

Incomplete grades must be petitioned and filed by the student with the administrative offices before the end of the term.

RESEARCH COMPONENT:

There is a optional COURSE ESSAY that will require some basic internet information search. Students will complete evaluation instruments as directed by the instructor.

LIBRARY SUPPORT:

The Libraries of Troy University provide access to materials and services that support the academic programs. The address of the TROY Global Campus Library Web site, which is for all TROY Global Campus and eCampus students, is <http://uclibrary.troy.edu> . This site provides access to the Library's Catalog and Databases, as well as to links to all Campus libraries and to online or telephone assistance by Troy Library staff. Additionally, the Library can also be accessed by choosing the "Library" link from the University's home page, www.troy.edu .

TROY E-MAIL REQUIREMENTS

All students are required to obtain and use the TROY e-mail address that is automatically assigned to them as TROY students. All official correspondence (including bills, statements, e-mails from instructors and grades) will be sent ONLY to the troy.edu (@troy.edu) address.

Your troy.edu e-mail address is the same as your Web Express user ID followed by @troy.edu. Students are responsible for the information that is sent to their TROY e-mail account.

ATTENDANCE AND MAKE UP WORK POLICY:

Mandatory attendance. Unexcused excessive absences are timely filed with the university(and VA and/or military if appropriate). *It is up to the student to contact the instructor about necessary absences and the make-up requirements.*

INCOMPLETE GRADE POLICY:

Missing any part of the Course Schedule may prevent completion of the course. If circumstances prevent the student from fulfilling course requirements by the end of the term, the student must

submit a request for an incomplete grade (see "Incomplete Grade" in the current Troy University *Undergraduate Catalog*).

Note: A grade of incomplete or "I" is not automatically assigned to students, but rather must be requested by the student by submitting a *Petition for and Work to Remove an Incomplete Grade* Form. Requests for an incomplete grade must be made before the end of the term. A grade of "I" does not replace an "F" and will not be awarded for excessive absences. An "I" will only be awarded to student presenting a valid case for the inability to complete coursework by the conclusion of the term. ***It is ultimately the instructor's decision to grant or deny a request for an incomplete grade, subject to the policy rules below.***

Policy/Rules for granting an Incomplete ("I"):

- An incomplete cannot be issued without a request from the student.
- To qualify for an incomplete, the student **must**:
 1. have completed over 50% of the course material and have a documented reason for requesting the incomplete. (50% means all assignments/exams up to and including the mid-term point, test, and/or assignments.)
 2. be passing the course at the time of his/her request.

If both of the above criteria are not met, an incomplete cannot be granted.

An "I" is not a substitute for an "F." If a student has earned an "F" by not submitting all the work or by receiving an overall "F" average, then the "F" stands.

SPECIAL NOTE:

It is expected that the student will come to each class prepared. Preparation includes thorough reading of the scheduled materials before the class. Vocabulary is the key to biological concepts. Due to the concentrated format of the course, timely and effective reading of the material is critical to success in this course.

FOOD AND DRINK:

As allowed by the location policy.

HONESTY AND PLAGIARISM:

The awarding of a university degree attests that an individual has demonstrated mastery of a significant body of knowledge and skills of substantive value to society. Any type of dishonesty in securing those credentials therefore invites serious sanctions, up to and including suspension and expulsion (see Standard of Conduct in each TROY *Catalog*). Examples of dishonesty include actual or attempted cheating, plagiarism, or knowingly furnishing false information to any university employee.

Plagiarism is defined as submitting anything for credit in one course that has already been submitted for credit in another course, or copying any part of someone else's intellectual work – their ideas and/or words – published or unpublished, including that of other students, and portraying it as one's own. Proper quoting, using strict APA formatting, is required, as described by the instructor. All students are required to read the material presented at:

<http://troy.troy.edu/writingcenter/research.html>

- Students must properly cite any quoted material. No term paper, business plan, term project, case analysis, or assignment may have **no more than 20% of its content quoted** from another source. Students who need assistance in learning to paraphrase should ask the instructor for guidance and consult the links at the Troy Writing Center. This does not apply for test /discussion questions where the required textbook is the directed source.
- This university employs **plagiarism-detection software**, through which *all* written student assignments are processed for comparison with material published in traditional sources (books, journals, magazines), on the internet (to include essays for sale), and papers turned in by students in the same *and* other classes in this *and all previous terms*. The penalty for plagiarism may range from zero credit on the assignment, to zero in the course, to expulsion from the university with appropriate notation in the student's permanent file.

The syllabus also includes general rules, which are applicable to all eCampus courses. Students are responsible for them, as well. To access them, click on the General Rules button of the course menu.

NON-HARASSMENT, HOSTILE WORK/CLASS ENVIRONMENT

Troy University expects students to treat fellow students, their instructors, other TROY faculty, and staff as adults and with respect. No form of “hostile environment” or “harassment” will be tolerated by any student or employee.

AMERICANS WITH DISABILITIES ACT:

Troy University supports Section 504 of the Rehabilitation Act of 1973 and the Americans With Disabilities Act of 1990, which insure that postsecondary students with disabilities have equal access to all academic programs, physical access to all buildings, facilities and events, and are not discriminated against on the basis of disability. Eligible students, with appropriate documentation, will be provided equal opportunity to demonstrate their academic skills and potential through the provision of academic adaptations and reasonable accommodations. Further information, including appropriate contact information, can be found at the following link: http://www.troy.edu/academics/aop/documents/AOP_08-01-07-09.pdf

FACULTY EVALUATION

In the eighth week of each term, students will be notified of the requirement to fill out a course evaluation form. These evaluations are completely anonymous and are on-line.

SCHEDULE of reading, exams and research paper

Class # 1- Mar 19 Chapter 1, 2,3& 4 (Chapters should be read BEFORE the first class meeting)

Class # 2 – Mar 26 Ch 5,6 7 ,8&9.

Class # 3- April 2 Ch 10 11,12 ,&13 (Review for take home test)

Class # 4 Apr 9 (Turn in take home test Ch 1 thru 13) Ch 14,15,16,&17

Class # 5 – Apr 16 Ch 18,19, 20 & 21 Review for test #2

Class # 6 – Apr 23 Test #2 (In class) after exam Ch 22, 23, & 24

Class # 7 – Apr 30 Ch 25,26,27, 28 & 29

Class # 8 – May 7 Ch 30, 31 & 32. Review for final Optional extra credit presentations.

Class # 9 – May 14 Comprehensive final exam- all chapters