

BIOLOGY 1371
Human Biology
Spring 2013
TEXAS A&M INTERNATIONAL UNIVERSITY
DEPARTMENT OF BIOLOGY & CHEMISTRY

Lecture: T R 2:00-3:15 PM
Mike Daniel
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Office Hours: **appointment**

Room: BH 211
Office: LBV 312
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M-F- **appointment recommended**

Lab W 2:00-4:50

LBV 188

I. Course Description

A survey of the basic anatomy and functioning of systems of the human body, including musculoskeletal, reproductive, circulatory, respiratory, immune, nervous, endocrine, urinary and digestive systems. Not for students majoring or minoring in biology. Fulfills the laboratory science core curriculum requirement.

II. Student Learning Outcomes: Upon the successful completion of this course, students will be able to:

1. Apply critical thinking to examine primary literature concerning human biology in order to effectively defend a conclusion.
2. Use the scientific method to design an experiment and analyze a data set to determine a conclusion.
3. Demonstrate effective technical communication skills.
4. Collaborate effectively on a research project and on a presentation of scientific results.
5. A knowledge of the characteristics of living organisms
6. A knowledge of structure and function of the human body
7. A knowledge of the systems of the human body

Core-Curriculum Learning Outcomes:

1. Critical Thinking: includes creative thinking, innovation, inquiry and analysis, evaluation, and synthesis of information. (SLOs: 1 & 2)
2. Communication Skills: Students will demonstrate their ability to communicate effectively by using written communication. (SLOs: 3 & 4)
3. Empirical and Quantitative Skills: includes the manipulation and analysis of numerical data or observable facts resulting in informed conclusions. (SLOs: 2)
4. Teamwork: includes the ability to work effectively with others to support a shared goal. (SLOs: 4)

III. Course Objectives

- 1) Students will know the basic structure and function of the major organ systems of the human body.

IV. Texts

Lecture: Johnson. Human Biology. Concepts and Current Issues. 3rd Ed.

Lab: Altsma & Hsu. Human Biology. Concepts and Current Issues. 3rd Ed.

V. Teaching Methods

- 1) Lecture, discussion, visual aids, and demonstrations.
- 2) Outside readings and library assignments.
- 3) Laboratory reinforcement and techniques.

VI. Lecture Outline

	<u>Topic</u>	<u>Chapter(s)</u>
Week 1	Introduction	1
Week 2	Chemistry of Life	2

Week 3	Cells	3, 17
Week 4	Tissues	4
Week 5	Skeletal System	5
Week 6	Muscular System	6
Week 7	Circulatory System	7, 8
Week 8	Respiratory System	10
Week 9	Digestion & Nutrition	14
Week 10	Urinary & Reproductive Systems	15, 16, 21
Week 11	Endocrine System	13
Week 12	Nervous System	11, 12
Week 13	Genetics	19
Week 14	Ecology & Environment	23 & 24

VII. Evaluation

Three Exams (100 pts. each)	300 pts.
Paper Report	100pts.
Final exam (comprehensive)	200 pts.
<i>Lab quizzes</i>	<i>100 pts.</i>
<i>Lab Final</i>	<u><i>100 pts.</i></u>
Total	800 pts.

Lecture is 60% of your grade

Lab is 40%

Tentative Exam Dates- weeks of Sept 17, Oct 15, Nov 12

Last day to drop course or withdraw Nov 9th

Last Class Day Dec. 4th

VIII. Plan For Success

Come to class

Read the book before lecture

Actively participate in class, take notes, ask questions, make comments, and look up words you don't understand

Review your notes at least weekly

Take advantage of office hours

Be punctual, come to class on time.

IX. Course Policies

Attendance is mandatory. Students are responsible for any material missed due to absence.

Exams will be given at times indicated in class, as close to the course outline as possible.

No make-up exams will be given. If you must miss for a university sanctioned event, the test must be taken before the regular class time. The final exam may substitute for one missed exam.

Cell phones and beepers **must** be turned off as a courtesy to others in the class.

If you arrive after class has begun or must leave during class, please enter and leave quietly.

X. University Policies

Classroom Behavior

The College of Arts and Sciences encourages classroom discussion and academic debate as an essential intellectual activity. It is essential that students learn to express and defend their beliefs, but it is also essential that they learn to listen and respond respectfully to others whose beliefs they may not share. The College will always tolerate diverse, unorthodox, and unpopular points of view, but it will not tolerate condescending or insulting remarks. When students verbally abuse or ridicule and intimidate others whose views they do not agree with, they subvert the free exchange of ideas that should characterize a university classroom. If their actions are deemed by the professor to be disruptive, they will be subject to appropriate disciplinary action, which may include being involuntarily withdrawn from the class.

Copyright Restrictions

The Copyright Act of 1976 grants to copyright owners the exclusive right to reproduce their works and distribute copies of their work. Works that receive copyright protection include published works such as a textbook. Copying a textbook without permission from the owner of the copyright may constitute copyright infringement. Civil and criminal penalties may be assessed for copyright infringement. Civil penalties include damages up to \$100,000; criminal penalties include a fine up to \$250,000 and imprisonment.

Copyright laws do allow students and professors to make photocopies of copyrighted materials under strict conditions. You may not copy most, much less all, of a work, but you may copy a limited portion of a work, such an article from a journal or a chapter from a book. These copies must be for your own personal academic use or, in the case of a professor, for personal, limited classroom use. In general, the extent of your copying should not suggest that the purpose or the effect of your copying is to avoid paying for the materials. And, of course, you may not sell these copies for a profit. Thus, students who copy textbooks to avoid buying them or professors who provide photocopies of textbooks to enable students to save money are both violating the law.

Plagiarism and Cheating

Plagiarism is the presentation of someone else's work as one's own. Recently, the Internet has complicated the picture. Getting something from the Internet and presenting it as one's own is still plagiarism. Copying another student's paper or a portion of the paper - is usually called "copying". Neither plagiarism nor copying will be tolerated. Should a faculty member discover that a student has committed plagiarism; the students will receive a grade of 'F' in that course and the matter will be referred to the Executive Director of Student Life for possible disciplinary action.

Students with Disabilities

Texas A&M International University seeks to provide reasonable accommodations for all qualified persons with disabilities. This University will adhere to all applicable federal, state, and local laws, regulations and guidelines with respect to providing reasonable accommodations as required to afford equal education opportunity. It is the student's responsibility to register with the Director of Student Counseling and to contact the faculty member in a timely fashion to arrange for suitable accommodations.

Incomplete Grade Assignments

Incompletes are discouraged and are assigned only under extenuating circumstances. In fairness to those students who complete the course as scheduled, under no circumstances will an Incomplete ("I") be changed to an "A" unless the student has experienced a death in the immediate family or has a written medical excuse from a physician.

Student Responsibility For Dropping a Course

"It is the responsibility of the STUDENT to drop the course before the drop date. Faculty are not responsible for dropping students who suspend class attendance".

Final Examination

Final Examinations must be comprehensive and must be given on the day specified.

Student E-mail Address

All students must obtain a TAMIU e-mail address