BIOL 2401 Anatomy and Physiology I
Course Syllabus: Spring 2014

"Northeast Texas Community College exists to provide responsible, exemplary learning opportunities."

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The information contained in this syllabus is subject to change without notice. Students are expected to be aware of any additional course policies presented by the instructor during the course.

Catalog Course Description (include prerequisites): Anatomy & Physiology I is intended for students entering field of study in allied health sciences, social work, physical therapy, physical education or any student who needs a basic understanding of the structure and function of the human body. This course is the first semester of a two semester sequence and includes a study of basic cell biology, histology, the integument, skeletal, muscular and nervous systems. Animal dissection is a required component of the laboratory component. Three hours of lecture and three hours of lab each week.

Required Textbook:


-OR-

Connect Plus A & P Online Mcgraw Hill ISBN 0077390830Copyright 12

Required Lab Kit:

A & P I Lab Kit Code 5192 – Custom eScience Labs
You may purchase the kit code from the NTCC bookstore and redeem online at www.esciencelabs.com

Recommended Reading(s): Chapters 1 through 12 in the textbook

Student Learning Outcomes:

1. Define anatomy and physiology, explain the importance of the relationship between structure and function and be able to describe directional terms and anatomical positions.
2. Understand the role of the following molecules in living systems: water, carbohydrates, lipids, proteins, and nucleic acids by describing the interrelationships between the basic building blocks of the macromolecules and the role that each plays within the cell.
3. Explain the nature of the fluid mosaic model of the plasma membrane in reference to passage of materials through it; describe the structure and function of major eukaryotic cellular organelles.
4. Describe the general make-up of a tissue, list and be able to recognize the primary tissue
types and examples of each type.
5. Describe the general structure and function of the integumentary system including epidermis and dermis and the accessory structures associated with the skin.
6. List components of the skeletal system, name the functions of each and identify the bones of the human skeleton. Be able to discuss bone formation and bone repair.
7. Describe the structure of a fibrous, cartilaginous and synovial joint. Be able to give examples of each.
8. Summarize the major characteristics and functions of skeletal, smooth and cardiac muscle. Be able to identify the major muscles of the human body.
9. List the divisions of the nervous system and describe the characteristics and functions of each. Describe the structure of neurons and the functions of their components.
10. Be able to work with a laboratory group to design and participate in experiments involving the use of appropriate instrumentation, the identification of dependent and independent variables, the collection of qualitative and quantitative data, the interpretation of data, and the communication of results and conclusions.

**Exemplary Educational Objectives:**

The objective of the study of a natural sciences component of a core curriculum is to enable the student to understand, construct, and evaluate relationships in the natural sciences, and to enable the student to understand the basis for building and testing theories.

The exemplary educational core objectives for natural sciences are:

3.1 to understand and apply method and appropriate technology to the study of natural sciences;
3.2 to recognize scientific and quantitative methods and the differences between these approaches and other methods of inquiry and to communicate findings, analyses, and interpretation both orally and in writing;
3.3 to identify and recognize the differences among competing scientific theories;
3.4 to demonstrate knowledge of the major issues and problems facing modern science, including issues that touch upon ethics, values, and public policies;
3.5 to demonstrate knowledge of the interdependence of science and technology and their influence on, and contribution to, modern culture.

**Lectures & Discussions for ONLINE A&P:**

Week 1- Chapter 1
Week 2- Chapter 2
Week 3- Chapter 3
Week 4- **Test 1 (Chps. 1-3)**
Week 5- Chapter 4
Week 6- Chapter 5
Week 7- Chapter 6
Week 8- **Test 2-MIDTERM (Chps. 1-6)**
Week 9- Chapter 7
Week 10- Chapter 8  
Week 11- Chapter 9  
Week 12- **Test 3 (Chps. 7-9)**  
Week 13- Chapter 10  
Week 14- Chapter 11  
Week 15- Chapter 12  
**FINAL WEEK**- **Test 4-FINAL EXAM (Chps. 7-12)**

**Evaluation/Grading Policy:**

- **Lecture Average 75% of final course grade**  
- **Lab Average 25% of final course grade**

The “lecture” component of this course will consist of online homework/quizzes through McGraw-Hill Connect and examinations with the following weight in calculating final lecture average:

- 15% online homework and quizzes  
- 20% Test 1 and 3 (taken in Respondus Lockdown Browser)  
- 20% Midterm Test 2 (taken at an approved proctored location)  
- 20% Final Test 4 (taken at an approved proctored location)

The “lab” component of this course will consist of online and Hands-on laboratory activities through eScience Lab Kit for A&P I:

- 25% eScience Kit Online and Hands-on Labs

**Other Course Requirements:**  
This is an online course in Anatomy and Physiology. Both lecture and laboratory study materials and assignments will be delivered through the Blackboard Learning Management System at NTCC. Students should ensure that they have the appropriate hardware, software, and technical skills for completing all assignments, labs and tests.

**Student Responsibilities/Expectations:**  
Northeast Texas Community College is a “community of scholars.” Please remember that you and all students in this class are pursuing very important goals in your lives. As scholars, I expect every student to be courteous to other students, the teaching assistants, and the instructor in both lecture and laboratory experiences.

The last day to drop with a “W” is **Thursday, April 10th**. It is a student’s responsibility to withdraw by that date if they are not able to complete the course.
**NTCC Academic Honesty Statement:**
"Students are expected to complete course work in an honest manner, using their intellects and resources designated as allowable by the course instructor. Students are responsible for addressing questions about allowable resources with the course instructor. NTCC upholds the highest standards of academic integrity. This course will follow the NTCC Academic Honesty policy stated in the Student Handbook."

**Academic Ethics**
The college expects all students to engage in academic pursuits in a manner that is beyond reproach. Students are expected to maintain complete honesty and integrity in their academic pursuit. Academic dishonesty such as cheating, plagiarism, and collusion is unacceptable and may result in disciplinary action. Refer to the student handbook for more information on this subject.

**ADA Statement:**
It is the policy of NTCC to provide reasonable accommodations for qualified individuals who are students with disabilities. This College will adhere to all applicable federal, state, and local laws, regulations, and guidelines with respect to providing reasonable accommodations as required to afford equal educational opportunity. It is the student’s responsibility to arrange an appointment with a College counselor to obtain a Request for Accommodations form. For more information, please refer to the NTCC Catalog or Student Handbook.

**Family Educational Rights And Privacy Act (FERPA):**
The Family Educational Rights and Privacy Act (FERPA) is a federal law that protects the privacy of student education records. The law applies to all schools that receive funds under an applicable program of the U.S. Department of Education. FERPA gives parents certain rights with respect to their children’s educational records. These rights transfer to the student when he or she attends a school beyond the high school level. Students to whom the rights have transferred are considered “eligible students.” In essence, a parent has no legal right to obtain information concerning the child’s college records without the written consent of the student. In compliance with FERPA, information classified as “directory information” may be released to the general public without the written consent of the student unless the student makes a request in writing. Directory information is defined as: the student’s name, permanent address and/or local address, telephone listing, dates of attendance, most recent previous education institution attended, other information including major, field of study, degrees, awards received, and participation in officially recognized activities/sports.