

INSTRUCTIONAL SYLLABUS  
Angelina College Science and Mathematics Division  
BIOL 2404 - General Anatomy and Physiology

**I. BASIC COURSE INFORMATION**

- A. Course Description (as stated in the bulletin, including necessary pre-requisite courses, credit hours)  
Biology 2404. General Anatomy and Physiology. Four hours credit. A study of the basic anatomical and physiological principles of the skeletal, integumentary, muscular, respiratory, cardiovascular, lymphatic, digestive, urinary, reproductive, nervous, and endocrine systems. Three lecture and two laboratory hours each week (Lab fee required).
- B. Intended Audience: The intended audiences are students majoring in a health career field such as respiratory care or radiography and others needing a sophomore level course in the natural sciences that emphasizes laboratory-based coursework.
- C. Instructor: Instructor Name: **Todd Farmer**  
Email Address: **tfarmer@angelina.edu**  
Office: **S116**  
Office Hours: **By appointment only**
- D. Time/Location: Lecture: MTWR, 8-9:50a, S121  
Lab: MW, 12:30-3:30p, S103

**II. INTENDED STUDENT OUTCOMES**

- A. Core Competencies (Basic Intellectual Competencies)
1. Critical Thinking: To include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information.
  2. Communication: To include effective development, interpretation and expression of ideas through written, oral and visual communication.
  3. Empirical and Quantitative Skills: To include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions.
  4. Teamwork: To include the ability to consider different points of view and to work effectively with others to support a shared purpose or goal.
- B. Course Learning Outcomes for all Sections.
1. Describe, analyze, and obtain a basic understanding of chemistry and biochemistry's influence on human anatomy and physiology.
  2. Compare, describe, and identify the structures and functions of various types of cells and cellular organelles in the human body.
  3. Compare, describe, and identify the structures and functions of tissue types in the human body.
  4. Describe, analyze, and obtain a basic understanding of the anatomy and physiology of organ systems in the human body, including specific structures and functions of the integumentary, skeletal, muscular, nervous, sensory, endocrine, cardiovascular, lymphatic, reproductive, digestive, respiratory, and urinary systems.
  5. Demonstrate comprehension of the interconnectivity of organ systems of the body, and how they contribute to organismal health, as well as potential consequences and health concerns when one or more of the structures associated with organ systems of the body fail to operate properly.

**III. ASSESSMENT MEASURES:**

- A. Assessments for the Core Objectives
1. Critical Thinking: Students will evaluate and analyze a subject related worksheet that is presented to them during a physiology topic. They will then answer essay questions on the worksheet, and the Angelina College (AC) Critical Thinking Rubric will be used to assess each student's critical thinking skills and correctness.

2. Communication: Students will work in groups will write a report to communicate information about a disease/disorder related to physiology. The Angelina College (AC) Communication Rubric will be used to assess each student's communication skills and correctness.
3. Empirical & Quantitative Skills: Students will work in groups to analyze an assigned physiology subject. They will then answer questions through elementary calculations, and the Angelina College (AC) Empirical & Quantitative Skills Rubric will be used to assess each student's empirical and quantitative skills and correctness.
4. Teamwork: Students will work in groups will write a report to communicate information about a disease/disorder related to physiology. The Angelina College (AC) Teamwork Rubric will be used to assess each student's teamwork skills and correctness.

#### **IV. INSTRUCTIONAL PROCEDURES**

This course will be taught using a combination of lectures and laboratory exercises that complement and supplement lecture material. Audio-visual materials, models, and laboratory experiments will be employed to enhance lecture and laboratory presentations.

#### **V. COURSE REQUIREMENTS AND POLICIES**

##### **A. Required Textbooks, Materials, and Equipment**

1. Essentials of Human Anatomy and Physiology, (Pearson). 12<sup>th</sup> Edition, Marieb.
2. Laboratory Manual to Accompany Essentials of Human Anatomy and Physiology, (Pearson). 7<sup>th</sup> Edition. Marieb.
3. All lecture notes, power point presentations, & supplementary materials necessary for the course will be available via blackboard.

C. Course Policies – This course conforms to the policies stated in the AC Handbook.

**VI. ACADEMIC ASSISTANCE** – If you have a disability (as cited in Section 504 of the Rehabilitation Act of 1973 or Title II of the Americans with Disabilities Act of 1990) that may affect your participation in this class, you should see Ms. Sellestine Hunt, Room 200 of the Student Center. At a post-secondary institution, you must self-identify as a person with a disability; Ms. Hunt will assist you with the necessary information to do so. To report any complaints of discrimination related to disability, you should contact Mr. Steve Hudman, Student Center, Room 101 or 936-633-5292.

Attendance – All students are expected to attend all scheduled classes and examinations and to be on time. Students who know they will be absent in advance should contact the instructor as soon as possible by e-mail or telephone. The instructor will determine whether or not an absence is excused. **IT IS THE STUDENT'S RESPONSIBILITY TO DROP THE COURSE** to avoid a potentially failing grade, however any student with 3 consecutive, or 4 cumulative absences may be dropped by the instructor regardless of the potential end of semester grade. The last day to drop the course with a "W" is (insert drop date).

##### **Course Conduct**

1. Absolutely no cell phone use is allowed during labs or class.
2. No Food, drinks, or tobacco in class.
3. Courteous and respectful behavior will be expected in class at all times.

**VII. COURSE OUTLINE: Description of the Course Activities including due dates, schedules, and deadlines.**

Date	Lecture Topic	Lab Exercise
30-May	Introduction to the body - Ch. 1	
31-May	Chemistry - Ch. 2	1, 2, 3
1-Jun	Cells - Ch. 3	
5-Jun	Cells, Skin & Body Membranes - Ch. 4	5,6
6-Jun	<b>Exam 1</b>	
7-Jun	Skeletal System - Ch. 5	<b>Exam 1; 7, 8, 9</b>
8-Jun	Muscle System - Ch. 6	
12-Jun	Nervous System - Ch. 7	10, 12
13-Jun	<b>Exam 2</b>	
14-Jun	Endocrine System - Ch. 9	13, 14, 15
15-Jun	Blood - Ch. 10	
19-Jun	Cardiovascular - Ch. 11	<b>Exam 2; 17, 18, 19</b>
20-Jun	Cardiovascular - Ch. 11	
21-Jun	Lymphatic System - Ch. 12	20, 21, 22
22-Jun	<b>Exam 3</b>	
26-Jun	Respiratory System - Ch. 13	<b>Exam 3; 23, 24</b>
27-Jun	Digestive System - Ch. 14	
28-Jun	Urinary System - Ch. 15	25, 26
29-Jun	Reproductive System - Ch. 16	
3-Jul	<b>Exam 4</b>	27
5-Jul	Review	
6-Jul	<b>FINAL EXAM</b>	<b>Exam 4</b>

**VII. EVALUATION AND GRADING**

TOTAL PERCENTAGE	FINAL GRADE
90+ %	A
80 – 90%	B
70 – 80%	C
60 – 70%	D

Lecture Grade = 400 points from Lecture Exams  
 100 points from Quizzes, Exercises and Research project  
100 points from Final Exam  
 600 points available

The final exam grade may be used to replace the lowest test grade.

Lab Grade = 400 points from Lab Exams

**Final Course Grade = # of points you earn / 1000**

## **Testing Procedures**

Lecture exams will be multiple choice and matching questions. Missed exams may be arranged at the instructor's discretion.

**The instructor may modify the provisions of this syllabus to meet individual class need by informing The class in advance as to the changes being made.**