

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

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: S110
Office Hours:
- D. Time/Location: Online

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 virtual laboratory presentations.

V. COURSE REQUIREMENTS AND POLICIES

A. Required Textbooks, Materials, and Equipment

1. Essentials of Human Anatomy and Physiology, (Pearson). 12th Edition, Marieb.
2. MasteringA&P for Marieb, Essentials of Human Anatomy & Physiology 12th Edition
3. Laboratory Manual to Accompany Essentials of Human Anatomy and Physiology, (Pearson). 7th Edition. Marieb.
4. All lecture notes, power point presentations, & supplementary materials necessary for the course will be available via blackboard.
5. Access to a computer with internet and speakers/headphones
6. Access to a testing center or ProctorU
7. Access to a printer

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

VI. ACADEMIC ASSISTANCE

Educational Accommodations – 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 may fill out the Educational Accommodations application within your AC Portal, under the “Student Services” tab. A Student Success team member will contact you once the application is received. At a post-secondary institution, you must self-identify as a person with a disability in order to receive services; for questions regarding the application process you can visit the Office of Student Success and Inclusion in the Student Center (205A); text 936.463.8078; or email access@angelina.edu. To report any complaints of discrimination related to a disability, you should contact Mr. Steve Hudman, Dean of Student Affairs, in Room 101 of the Student Center. You may also contact Dean Hudman by calling (936) 633-5292 or by emailing shudman@angelina.edu.

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).

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

Lecture Outline:

Lecture Outline			
Week	Date	Topic	Online Homework
1	27-Aug	Introduction (Ch 1)	Chapter 1 Assessment, Discussoin 1
2	4-Sep	Chemistry (Ch 1)	Chapter 2 Assessment, Discussoin 2
3	10-Sep	Cells (Ch 3)	Chapter 3 Assessment, Discussoin 3
4	17-Sep	Skin & Body Membranes (Ch 4) Exam 1 (Ch 1 - 4)	Chapter 4 Assessment, Discussoin 4
5	24-Sep	Skeletal System (Ch 5)	Chapter 5 Assessment, Discussoin 5
6	1-Oct	Muscle System (Ch 6)	Chapter 6 Assessment, Discussoin 6
7	8-Oct	Nervous System (Ch 7) Exam 2 (Ch 5 - 7)	Chapter 7 Assessment, Discussoin 7
8	15-Oct	Endocrine System (Ch 9)	Chapter 9 Assessment, Discussoin 8
9	22-Oct	Blood (Ch 10)	Chapter 10 Assessment, Discussoin 9
10	29-Oct	Cardiovascular (Ch 11)	Chapter 11 Assessment, Discussoin 10
11	5-Nov	Lymphatic System (ch 12) Exam 3 (Ch 9 - 12)	Chapter 12 Assessment, Discussoin 11
12	12-Nov	Respiratory System (Ch 13)	Chapter 13 Assessment, Discussoin 12
13	19-Nov	Digestive System (Ch 14)	Chapter 14 Assessment, Discussoin 13
14	26-Nov	Urinary System (Ch 15)	Chapter 15 Assessment, Discussoin 14
15	3-Dec	Reprohductive System (Ch 16) Exam 4 (Ch 13 - 16)	Chapter 16 Assessment, Discussoin 15
16	10-Dec	Final Exam (All Chapters)	

Lecture Outline:

Week	Date	Lab Outline	Lab Exercise
1	27-Aug	Topics, Handouts, Assignments	
2	4-Sep	Language of Anatomy Handout	1
3	10-Sep	Organ System and Cells Handout	2, 3
4	17-Sep	Classification of Tissues Handout	5
5	24-Sep	Integumentary System Handout Lab Exam 1	6
6	1-Oct	Skeletal System Handout	8, 9
7	8-Oct	Muscular System Handout	12
8	15-Oct	Nervous System (Brain) Handout Lab Exam 2	13, 14
9	22-Oct	Nervous System (Nerves) Handout	14
10	29-Oct	Special Senses Handout	17
11	5-Nov	Endocrine System Handout	18
12	12-Nov	Blood and Cardiovascular Handout Lab Exam 3	19, 20
13	19-Nov	Respiratory Handout	23
14	26-Nov	Digestive Handout	25
15	3-Dec	Urinary Handout	26
16	10-Dec	Reproductive Handout Lab Exam 4	27

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
50 points from online homework
50 points from discussion posts
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
100 points from Quizzes and Exercises
500 points available

Final Course Grade = (Lect points you earn / 600) x 0.6
(Lab points you earn / 500) x 0.4
Maximum of 100 points

Testing Procedures

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

Final Exam: The comprehensive final exam will be taken in the lecture portion of this course, and will include both lecture and lab material .

*** STUDENTS ARE REQUIRED TO PROVIDE THEIR OWN SCANTRONS (FORM 882-E) FOR EACH EXAM!**

****** 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.