



RANGER COLLEGE
STEPHENVILLE, TEXAS

COURSE SYLLABUS

Anatomy and Physiology

Biology 2402

4 credit hours

INSTRUCTOR:

Kathleen Huckabee

[Insert Course Code] – [Insert semester]

INSTRUCTOR: Kathleen Huckabee
EMAIL: Kathleen.huckabee@sவில்.us
OFFICE: Room 503 Stephenville High School
PHONE: 254-968-4141
HOURS: 7:45 am to 11:45 pm

I. Texas Core Curriculum Statement of Purpose

Through the Texas Core Curriculum, students will gain a foundation of knowledge of human cultures and the physical and natural world, develop principles of personal and social responsibility for living in a diverse world, and advance intellectual and practical skills that are essential for all learning.

II. Course Description

This course includes the study of the basic structure of the cell, tissue organization, tissue and organ structure, and physiological processes of the integumentary, skeletal, muscular, and nervous systems in humans. The principle of structure and function and the role these organ systems play in maintaining homeostasis will be emphasized. This course is designed for students entering medical or allied health careers and physical education majors.

III. Required Background or Prerequisite

Recommended prerequisite: BIOL 1406 or approval of instructor.

IV. Required Textbook and Course Materials

“Hole’s Human Anatomy and Physiology” 15th edition. Shier, Butler, Lewis. 2019. McGraw Hill. ISBN 13:978-1-259-86456-1

“Laboratory Atlas of Anatomy and Physiology” 6th edition by Eder. 2009. McGraw Hill. ISBN 10:0073525677, 13:978-0073525679

V. Course Purpose

Courses in the life and physical sciences focus on describing, explaining, and predicting natural phenomena using the scientific method. Courses involve the understanding of interactions among natural phenomena and the implications of scientific principles on the physical world and on human experiences.

VI. Learning Outcomes

Upon successful completion of this course, students will:

- *Use anatomical terminology to identify and describe locations of major organs of each system covered.
- *Explain interrelationships among molecular, cellular, tissue, and organ functions in each system.
- *Describe the interdependency and interactions of the systems.
- *Explain contributions of organs and systems to the maintenance of homeostasis.
- *Identify causes and effects of homeostatic imbalances.
- *Describe modern technology and tools used to study anatomy and physiology.

VII. Core Objectives

This course meets the following of the six Core Objectives established by Texas:

- Critical Thinking Skills (CT)** – Creative thinking, innovation, inquiry, and analysis; evaluation and synthesis of information
- Communication Skills (COM)** – effective development, interpretation and expression of ideas through written, oral, and visual communication
- Empirical and Quantitative Skills (EQS)** – The manipulation and analysis of numerical data or observable facts resulting in informed conclusions
- Teamwork (TW)** – The ability to consider different points of view and to work effectively with others to support a shared purpose or goal
- Social Responsibility (SR)** – Intercultural competence, knowledge of civic responsibility, and the ability to engage effectively in regional, national, and global communities
- Personal Responsibility (PR)** – The ability to connect choices, actions, and consequences to ethical decision-making

VIII. Methods of Instruction

1. Lectures (3 times weekly) in which the major concepts and theories in anatomy and physiology will be discussed.
2. Labs (2 times weekly) in which major anatomical and physiological principles will be demonstrated by examination of specimens and viewing videos.
3. Case Studies will be assigned each semester.

IX. Methods of Assessment

The course grade will be computed as follows:

Average of lecture exams and quizzes (CT, COM, EQS), lab practicals, and case studies (CT, COM, EQS, TW)	= 75%
Final Exam (CT, EQS)	= 25%

Letter grades will be assigned as follows:

90-100 = A, 80-89 = B, 70-79 = C, 60-69 = D, below 60 = F

X. Course/Classroom Policies

Regular and punctual attendance in all classes and labs is considered essential for optimum academic success. If the student has the equivalence of three weeks of unofficial absences the instructor may drop the student from the course with a grade of F (Ranger College General Catalog). Students are expected to be seated by the beginning of the lecture period. Excessive tardies (6) may be considered as absences. Excessive unexcused absences (6) may result in a grade of I (incomplete) and may result in dismissal from the course with a grade of F. It is your responsibility to inform the instructor of an excused absence. An absence is excused if you are excused by the Dean to participate in an authorized College activity or if you have a valid medical excuse. Any student who is disruptive to the class will be dismissed from the class and may be dismissed from the course. Any student found with unauthorized notes (cheat sheets, electronic devices, etc.) during an exam or copying from another student's exam will be subject to disciplinary action. Any student misconduct will be reported to the Dean of Student Services (See Student Handbook).

No tobacco use is permitted on campus.

XI. Course Outline/Schedule

<u>CLASS</u>	<u>LECTURE TOPIC</u>	<u>TEXT ASSIGNMENT</u>
1	Endocrine System	Ch. 11
2	Endocrine System	
3	Blood and Blood Vessels	Ch. 12
4	Blood and Blood Typing	
5	Circulatory System and Heart Anatomy	Ch. 13
6	Circulatory System and Heart Anatomy	
7	Lab Practical #1	
8	Online assignment – Lymphatic System	Ch. 14
9	Lymphatic System, review for Test #1	
10	Test #1	

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11	Digestive System and Lab	Ch. 15
12	Digestive System and Lab	
13	Digestive System and Lab	
14	Respiratory System	
15	Respiratory System and Spirometry	Ch. 16
16	Respiratory System and Review	
17	Test #2	
18	Urinary System	Ch.17
19	Urinary System and Lab	
20	Urinary System and Lab	
21	Urinary System and Lab	
22	Male Reproductive System and Lab	Ch. 19
23	Male Reproductive System and Lab	
24	Female Reproductive System and Lab	
25	Lab Practical #2	
26	Pregnancy, Growth, and Development	Ch. 20
27	Test #3	
28	Final Exam Review	
29	<u>Final Exam (Comprehensive)</u>	

**** Periodic online assignments will be assigned

XII. Non-Discrimination Statement

Admissions, employment, and program policies of Ranger College are nondiscriminatory in regard to race, creed, color, sex, age, disability, and national origin.

XIII. ADA Statement

Ranger College provides a variety of services for students with learning and/or physical disabilities. Students are responsible for making initial contact with the Ranger College Counselor, Gabe Lewis (glewis@rangercollege.edu). It is advisable to make this contact before or immediately after the semester begins.

XIV. Exit plan for the science building

In case of fire or other emergency, the nearest exit from the classroom is the door by the small gym. Please remain outside the building until otherwise notified by campus officials.