



RANGER COLLEGE

COURSE SYLLABUS

General Biology I

BIOL 1406

4 credit hours

FALL 2020

INSTRUCTOR:

Brandy Musick

BIOL1406 – Fall 2020

INSTRUCTOR: Brandy Musick
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HOURS: Monday - Friday; 8AM - 9PM, via email

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

Fundamental principles of living organisms will be studied, including physical and chemical properties of life, organization, function, evolutionary adaptation, and classification. Concepts of cytology, reproduction, genetics, and scientific reasoning are included.

III. Required Background or Prerequisite

Passing score on TSI Reading section or equivalent alternate test is recommended.

IV. Required Textbook and Course Materials

The textbook for this course is provided by Lumen Learning. There is no separate book to purchase. It can be accessed in Blackboard and/or Canvas.

V. Course Purpose

Life Science courses 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

1. Describe the process of science as a way to understand the natural world.
2. Describe the cell as the basic unit of life.
3. Describe the major metabolic pathways in cellular respiration and photosynthesis, and the role of enzymes and high-energy molecules, such as ATP, in these processes.
4. Describe the structure and expression of the genetic material in living organisms.
5. Describe the process of cellular division.
6. Describe the mechanics of passing characteristics from parent to offspring.
7. Describe the mechanism of organic evolution and adaptation.

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

Reading/Lectures/Notes

Online Practice, Homework

Labs in which major biological principles will be demonstrated by examination of specimens, conducting experiments and viewing videos virtually.

IX. Methods of Assessment

Exams will consist of multiple choice and short answer questions and will cover all material discussed in class or in reading assignments. Each question will be graded as correct or incorrect in accordance with information in the text, lectures and readings. Exam grades will be taken as the points correct.

There will be NO RETESTS.

The course grade will be computed as follows:

EXAMS	25%
HOMEWORK	25%
LAB	25%
FINAL EXAM	25%

Letter grades will be assigned as follows:

Grading scale: A = 90-100% B = 80-89 C = 70-79 D = 60-69 F = Below 60

X. 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.

XI. 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.