

# **COURSE SYLLABUS**

<b>LAST REVIEW</b>	Spring 2021
<b>COURSE TITLE</b>	Physiology Laboratory
<b>COURSE NUMBER</b>	BIOL-0272
<b>DIVISION</b>	Math, Science, Business & Technology
<b>DEPARTMENT</b>	Biology
<b>CIP CODE</b>	24.011
<b>CREDIT HOURS</b>	1
<b>CONTACT HOURS/WEEK</b>	Lab: 2
<b>PREREQUISITES</b>	BIOL-0271, Physiology
<b>COREQUISITES</b>	BIOL-0271, Physiology
<b>COURSE PLACEMENT</b>	Students must meet the correct placement measure for this course. Information may be found at: <a href="https://www.kckcc.edu/admissions/information/mandatory-evaluation-placement.html">https://www.kckcc.edu/admissions/information/mandatory-evaluation-placement.html</a>

## **COURSE DESCRIPTION**

Using scientific procedures, students investigate and perform laboratory work dealing with basic physiological processes.

## **KANSAS SYSTEMWIDE TRANSFER: BIO 2032**

The learning outcomes and competencies detailed in this course outline or syllabus meet or exceed the learning outcomes and competencies specified by the Kansas Core Outcomes Groups project for this course as approved by the Kansas Board of Regents.

## **TEXTBOOKS**

<http://kckccbookstore.com/>

## **METHODS OF INSTRUCTION**

A variety of instructional methods may be used depending on content area. These include but are not limited to: lecture, multimedia, cooperative/collaborative learning, labs and demonstrations, projects and presentations, speeches, debates, panels, conferencing, performances, and learning experiences outside the classroom. Methodology will be selected to best meet student needs.

## **COURSE OUTLINE**

- I. Scientific Observations
  - a. Homeostasis
  - b. Diffusion and Osmosis
- II. Nervous System Functions
  - a. Reflex Actions
  - b. Action Potentials
- III. Skeletal Muscle
  - a. Activity and Actions
- IV. Special Senses
  - a. Vision
  - b. Hearing and Equilibrium
  - c. Taste and Touch and/or Smell
- V. Cardiovascular Function
  - a. Blood Pressure
  - b. Electrocardiograms
  - c. Heart Health
- VI. Respiration Activities
- VII. Special Topics

## **COURSE LEARNING OUTCOMES**

Upon successful completion of this course, the student will:

- A. Be able to make and record scientific observations and summarize the results.
- B. Be able to elicit various reflexes on another person and evaluate them.
- C. Be able to evaluate visual responses and make observations.
- D. Be able to evaluate responses to hearing tests.
- E. Be able to test responses of taste and touch and evaluate the results.
- F. Be able to record blood pressure, collect data from other students, and construct tables, charts or graphs as needed.
- G. Be able to identify the waves on ECG recordings, measure intervals and calculate heart rate.
- H. Be able to identify cardiovascular processes and evaluate the results.
- I. Be able to examine and evaluate respiratory recordings.
- J. Be able to submit laboratory reports for evaluation.

## **ASSESSMENT OF COURSE LEARNING OUTCOMES**

Student progress is evaluated through both formative and summative assessment methods. Specific details may be found in the instructor's course information document.

## **COLLEGE POLICIES AND PROCEDURES**

*Student Handbook*

<https://www.kckcc.edu/files/docs/student-resources/student-handbook-and-code-of-conduct.pdf>

*College Catalog*

<https://www.kckcc.edu/academics/catalog/index.html>

*College Policies and Statements*

<https://www.kckcc.edu/about/policies-statements/index.html>

*Accessibility and Accommodations*

<https://www.kckcc.edu/academics/resources/student-accessibility-support-services/index.html>.