

**Course Prefix/Number/Title:** BIOL 115 – Concepts of Anatomy and Physiology (online)

**Number of Credits:** 4 semester credits

**Course Description:**

An introduction to the study of the structure (anatomy) and function (physiology) of the human body. This course consists of three, one-hour lectures and one two-hour lab each week.

**Pre-/Co-requisites:** None

**Course Objectives:**

The goal of this course is to facilitate student learning about human anatomy and physiology so that students better understand and appreciate the complexities of and interactions between organ systems in order to promote the advancement of life sciences in society.

Objectives:

- 1) To learn and retain information essential to a broad knowledge of human anatomy and physiology.
- 2) To understand and utilize scientific methods of inquiry.
- 3) To practice sound, safe, and sensible laboratory techniques.
- 4) To appreciate the historic development of science.
- 5) To apply scientific information and principles to everyday life.
- 6) To recognize the interrelationship among the sciences, technology, and society.

**Instructor:** Larry Brooks

**Office:** NSC 102

**Office Hours:** By appointment

**Phone:** (701) 228-5457

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**Lecture Schedule:** Online

**Lab Schedule:** Online

**Textbooks:** Understanding Human Anatomy and Physiology, S. Longenbaker, 9<sup>th</sup> Edition  
Instructor generated lab manual

## **Course Requirements:**

Although subject to slight modification based on the discretion of the instructor, the lecture component of this course will consist of approximately 450 points (nine exams worth 50 points each). The laboratory component of this course consists of 200 points (14 lab reports worth five points each and four lab exams worth 20 points each). There is a one week grace period to make-up any missed quiz, exam or assignment. Any missed exam/work not made up within the allotted time will be given a zero. Makeup exams may be of an essay nature and are usually considered more difficult. Grading is based on a standard college curve, where students earn a grade based upon the percent of total possible points they obtain. Final letter grades are assigned based on the following criteria:

A =	89.5-100% of the total points
B =	79.5 - <89.5% of the total points
C =	69.5 - <79.5% of the total points
D =	59.5 - <69.5% of the total points
F =	<59.5% of the total points

## **Tentative Course Outline:**

<u>TOPIC</u>	<u>READING</u>
Organization of the Body	Chpt. 1
Chemistry	Chpt. 2
Cell Structure	Chpt. 3
Cell Function	Chpt. 3
Tissues	Chpt. 4
Integumentary System	Chpt. 5
Skeletal System	Chpt. 6
Muscular System	Chpt. 7
Nervous System	Chpt. 8
Senses	Chpt. 9
Endocrine System	Chpt. 10
Blood	Chpt. 11
Cardiovascular System	Chpt. 12
Lymphatic System	Chpt. 13
Respiratory System	Chpt. 14
Digestive System	Chpt. 15
Nutrition	Chpt. 15
Urinary System	Chpt. 16
Reproductive System	Chpt. 17
Development and Birth	Chpt. 18
Genetics	Chpt. 19

## LAB

<u>LAB #</u>	<u>TOPIC</u>
1	Organization of the Body
2	Introduction to Human Physiology
3	Histology
4	The Skeletal System
5	Fetal Pig Anatomy
6	The Muscular System
7	The Nervous System
8	The Senses
9	Cardiovascular System
10	Arteries and Veins
11	The Respiratory System
12	Digestive System
13	Urinary and Reproductive Systems
14	Genetics

### **General Education Competencies and Objectives/Outcomes**

This course meets General Education Competency 1: Identifies the interrelationships between humans and their environment and addresses Learning Outcomes (LO) #3:

LO 3: Applies scientific information to everyday life

- Performance Indicator 1: Utilizes scientific information in daily decision making

### **Relationship to Campus Theme:**

This course addresses the campus theme by incorporating the latest diagnostic procedures, treatments, and other technologies that are used to identify and treat human diseases and disorders.

### **Classroom Policies**

- 1) Be respectful of other students and the instructor.

### **Student Email Policy**

Dakota College at Bottineau is increasingly dependent upon email as an official form of communication. A student's campus-assigned email address will be the only one recognized by the campus for official mailings. The liability for missing or not acting upon important information conveyed via campus email rests with the student.

### **Academic Integrity**

According to the DCB Student Handbook, students are responsible for submitting their own work. Students who cooperate on oral or written examinations or work without authorization share the responsibility for violation of academic principles, and the students are subject to disciplinary action even when one of the students is not enrolled in the course where the violation occurred. The Code detailed in the Academic Honesty/Dishonesty section of the Student Handbook will serve as the guideline for cases where cheating, plagiarism or other academic improprieties have occurred.

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### **Disabilities and Special Needs**

Students with disabilities or special needs (academic or otherwise) are encouraged to contact the instructor and Disability Support Services. It is important to do so as early as possible during the beginning of the semester.

### **Title IX:**

Dakota College at Bottineau (DCB) faculty are committed to helping create a safe learning environment for all students and for the College as a whole. Please be aware that all DCB employees (other than those designated as confidential resources such as advocates, counselors, clergy and healthcare providers) are required to report information about such discrimination and harassment to the College Title IX Coordinator. This means that if a student tells a faculty member about a situation of sexual harassment or sexual violence, or other related misconduct, the faculty member must share that information with the College's Title IX Coordinator. Students wishing to speak to a confidential employee who does not have this reporting responsibility can find a list of resources on the DCB Title IX webpage.