

Course Prefix/Number/Title: BIOL 115 – Concepts of Anatomy and Physiology

Number of Credits: 4 semester credits

Course Description: A one semester course that integrates the structure and function of the human body. Topics include chemistry, cell biology, tissues, and organ systems. Course includes a lab component.

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 advancements 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 the scientific methods of inquiry.
- 3) To practice sound, safe, and sensible laboratory techniques.
- 4) To apply scientific information and principles to everyday life.
- 5) To recognize the interrelationship among the sciences, technology and society.

Instructor: Angie Bartholomay

Office: NSC 111

Office Hours: MW 9-10:00 am, MW 1-2:00pm

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Lecture/Lab Schedule: Lecture M,W,F 2:00-2:50pm NSC 104
Lab T 2:00-3:50pm NSC 128
Lab W 3:00-4:50pm Swain 306

Textbook(s): Understanding Human Anatomy and Physiology, S. Longenbaker, 10th Edition
Lab Manual Bottineau none; Minot TBA

Course Requirements: The lecture component of this course will consist of approximately 700 pts. The 700 points will come from 10-12 quizzes worth 10 points each; 5 exams worth 100 points each and a final exam for 100 points. There will not be make-up for missed exams unless prior arrangements have been made with the instructor. Grading scale is as follows:

- A= 90-100%
- B= 80-89.5%
- C= 70-79.5%
- D=60-69.5%
- F= <59.5%

Exams: There will be five regular exams. Exams may contain short answer, multiple choice,

Completion and problems. There will be no make-ups for exams unless prior approval is given!

Homework: Throughout the semester problems will be assigned in order for you to better understand the concepts and math involved. This homework will not be graded, however you will be able to use these assignments on quizzes. The problems assigned will be similar to those which will be on the exams.

Quizzes: will be used to check for understanding. Make-up quizzes are not allowed.

Laboratory: The laboratory portion of the course provides an opportunity to integrate lecture concepts with observable activities and is critical to understanding chemical concepts. Attendance in lab is mandatory.

Early Warn Attendance Policy will be followed

Tentative Course Outline:		reading
Week 1	Introduction & Organization of the Body	Chapter #1
Week 2	Chemistry	Chapter #2
Week 3	Cell Structure & Function	Chapter #3
Week 4	Exam #1- Chapters #1-3	
	Tissues	Chapter #4
Week 5	Integumentary & Skeletal system	Chapter # 5 & 6
Week 6	Exam #2- Chapters #4-6	
Week 7	Muscular system	Chapter #7
Week 8	Nervous & sensory systems	Chapter #8 & 9
Week 9	Endocrine system	Chapter #10
Week 10	Blood	Chapter #11
	Exam #3 Chapters #7-11	
Week 11	Circulatory System	Chapter #12
Week 12	Lymphatic System & Respiratory	Chapter #13 &14
Week 13	digestive system & Nutrition	Chapter #15
	Exam #4 -Chapter #12-15	
Week 14	Urinary System	Chapter #16
Week 15	Reproductive System	Chapter #17
Week 16	Development & Birth	Chapter #18 &19
12/7 & 12/9	Final Review	
12/11/20	Final Exam	

Lab Schedule	Topic	Lab #
Week 1	No lab	
Week 2	Use of Light Microscope + Scientific Method	microscope & scientific method
Week 3	Microscope quiz & Chemistry of Life	Organic chemistry
Week 4	Cell Structures & Human Body Tissues	cells and tissues
Week 5	Organization of the Body	fetal pig dissection
Week 6	Skeletal system & quiz	Bones and skeleton
Week 7	Muscular system & quiz	muscles
Week 8	Nervous System & quiz	Nerves and Brain
Week 9	Sensory System & quiz	Eyes and Ears
Week 10	Cardiovascular system	Blood and heart
Week 11	Respiratory System	Lung capacity
Week 12	Digestive system & nutrition	Nutrition
Week 13	Urinary system	urinalysis
Week 14	No Lab	
Week 15	Development, Inheritance & Genetics	genetics

General Education Competency/Learning Outcome(s) OR CTE Competency/Department Learning Outcome(s): This course meets the General Education Competency #1; Identifies the interrelationships between humans and their environment.

Learning Outcome 3; Applies scientific information in everyday life

Relationship to Campus Focus: 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) The use of cell phones, electronic devices and headphones are prohibited in the classroom. If you have brought it is to be placed on silent and placed on the table in front of you.
- 2) Be respectful of other students, instructors and guests.

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.

Disabilities or Special Needs:

Students with disabilities or special needs (academic or otherwise) are encouraged to contact the instructor and Disability Support Services.

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.