

Dakota College at Bottineau Course Syllabus

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

Number of Credits: 4 semester hours

Course Description: One semester course that integrates the structure and function of the human body. Course includes lab.

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 9-10:00am & 1-2:00pm

Phone number: 228-5471

Email: angela.bartholomay@dakotacollege.edu

Lecture Schedule: 2:00-2:50pm MWF in Th 2211

Lab Schedule: Bottineau T 2:00-4:00pm NSC 128

Textbooks: Understanding Human Anatomy and Physiology, S. Longenbaker, 10th Edition

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.

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. The laboratory component of this course consists of 200 points (14 lab reports for 10 points each and four lab exams for 15 points each. Lecture points will comprise 75% of the final grade while labs comprise 25% of the final grade. 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. We will discuss the problems in class or you can see one of the chemistry tutors or myself for help.

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. Safety goggles are available for purchase in the bookstore. Attendance in lab is mandatory and the instructor must validate that you actually assisted in the collection of data. Borrowed results are not acceptable and all parties involved will receive a grade deduction. Lab reports are due at the beginning of the next lab class. Late lab reports will not be accepted. Failure to wear safety goggles, not following instructions or using unsafe procedures is unacceptable and may result in your dismissal from further labs.

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 |
| 12/9 & 11/19 | Final Review | |
| 12/13/19 | Final Exam | |

| <u>Lab Schedule</u> | <u>Topic</u> | <u>Lab #</u> |
|---------------------|---|--------------|
| Week 1 | No lab | |
| Week 2 | Use of Light Microscope + Scientific Method | 1 & 2 |
| Week 3 | Microscope quiz & Chemistry of Life | 3 |
| Week 4 | Cell Structures & Human Body Tissues | 4 |
| Week 5 | Organization of the Body | 5 |
| Week 6 | Skeletal system & quiz | 6 |
| Week 7 | Muscular system & quiz | 7 |
| Week 8 | Nervous System & quiz | 8 |
| Week 9 | Sensory System & quiz | 9 |
| Week 10 | Cardiovascular system | 10 |
| Week 11 | Respiratory System | 11 |
| Week 12 | Digestive system & nutrition | 12 |
| Week 13 | Urinary system | 13 |
| Week 14 | No Lab | |
| Week 15 | Development, Inheritance & Genetics | 14 |

General Education Goals & Objectives

This course meets General Education Goals:

1. Applies the Scientific method of Inquiry
2. Demonstrates an understanding of the natural environment
3. Apply scientific information and principles to everyday life.

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) The use of **cell phones, electronic devices and headphones** are prohibited in the classroom. If you have brought your phone to class it is to be placed on silent and on the table in front of you.
- 2) Food and beverages are permitted in accordance with IVN classroom policy.
- 3) Be respectful of other students, technicians, instructors and guests

Academic Integrity

All students are expected to adhere to the highest standards of academic integrity. Dishonesty in the classroom or laboratory with assignments, quizzes and exams will not be tolerated. Refer to the student handbook for further information.

Disabilities and Special Needs:

If you have a disability for which you require accommodations, you are encouraged to contact:

Jacalyn Migler 228-5672 jacalyn.migler@dakotacollege.edu

to request disability support services as early as possible during the beginning of the semester.

On the Minot Campus contact:

Evelyn Klimpel 701-852-3371 evelyn.klimpel@minotstateu.edu