

COURSE SYLLABUS

Course Prefix/Number/Title: BIOL 221 Anatomy & Physiology II

Number of Credits: 4

Course Description: This course provides further study of the structure and function of the human body.

Pre-/Co-requisites: none

Course Objectives:

- 1) Structure and Function: Continues to build on and integrates related facts, principles, and concepts from various areas, including cell biology, chemistry, biochemistry, and hemostasis.
- 2) Systems Covered: The following body systems will be covered in this course
 - a. Endocrine System components and their functions
 - b. Circulatory System heart, blood, and their functions
 - c. Respiratory System structure and function
 - d. Lymphatic System components and their functions
 - e. Digestive System organs, metabolism and nutrition
 - f. Urinary System organs, and fluid balances in the body
 - g. Reproductive Systems human reproductive systems and development

Instructor: Emily Schaefer **Office Hours:** By appointment

Phone: 701-240-7782

Email: Emily.schaefer@dakotacollege.edu

Lecture/Lab Schedule: Online

Textbook(s):

<u>Lecture</u> – Anatomy and Physiology, 2e published by OpenStax

- This textbook is fully online and can be access via this link: <u>Anatomy and Physiology</u>, <u>2e</u>. Accessing using this link and setting up an account will allow you to save highlights and notes you add throughout the course. There is no cost to access this book for the course.
- There is also a PDF version available to download in the Blackboard course. You can also find a link to order a print copy of the textbook here or through the bookstore.

Lab - Science Interactive Lab Kit

- The lab materials for this course are a kit available through Science Interactive. You will need to purchase the kit from the bookstore and you will need to make sure you have received your kit PRIOR to the start of the class. All the labs for this course will be virtual, so you will not need additional materials.
- All labs will be submitted via the Science Interactive Platform, which will link to the gradebook in Blackboard.

Course Requirements: Textbook, Science Interactive Lab Kit

Tentative Course Outline:

✓ Included is a tentative course outline for the quizzes, exams, and lab activities. All assignments are due by 11:59 pm on the due date. Please see blackboard for specific due dates for assignments.

Week	Unit	Chapters	Labs	Exams
1-3	Fluids and	✓ Endocrine System	✓ Getting Started Lab	Exam 1 –
	Transport	✓ Cardiovascular System:	✓ Lab Safety Lab - Digital	Endocrine &
		Blood	✓ Using the V-Scope Lab	Cardio
		✓ Cardiovascular System:	✓ Endocrine System	
		Heart	✓ Blood Vessels & the	
		✓ Blood Vessels and	Heart	Exam 2 –
		Circulation	✓ Lymphatic System	Circulation &
		✓ Lymphatic & Immune		Lymphatic
		System		
4-6	Energy,	✓ Respiratory System	✓ Respiratory System Lab	Exam 3 –
	Maintance &	✓ Digestive System	✓ Digestive System Lab	Respiration &
	Exchange	✓ Metabolism and Nutrition	✓ Nutrition Lab	Digestion &
		✓ The Urinary System	✓ Urinary System Lab	Metabolism
		✓ Fluid, Electrolyte, and	✓ Electrolytes & Acid-Base	
		Acid-Base Balance	Lab	
7-8	Human	✓ Reproductive Systems	✓ Heredity Lab	Exam 4 – Fluids,
	Development	✓ Development and		Reproduction &
		Inheritance		Development

Class Policies & Expectations:

- 1) Classwork & effort: You can expect to spend 2 3 hours per day working on this course. Please make sure that you have consistent access to the internet and the course materials for the whole course.
 - ✓ The OpenStax textbook website has a lot of great resources to help study, so please take advantage of those. The quiz and exam questions will be based on those questions from your textbook. There are also links to videos that can help explain concepts.
 - ✓ I will create a link for a class Quizlet that will include study sets for each chapter, as an additional resources to help you study.
 - ✓ There are outline notes that go along with each chapter, and will be very helpful when you are reading the text and taking notes.
- 2) *Grades*: The grades will be calculated based on total points for all activities. The breakdown of points is given below (this may change slightly):

Grading Scale will be as follows:

✓ Quizzes (12) – 120 pts
 A: 90 – 100% of total points

✓ Labs (12) – 319 points **B: 80 – 89% of total points**

✓ Exams (4) – 100 points
 ✓ Total: 849 points
 C: 70 – 79% of total points
 D: 60 – 69% of total points

F: 59% or below of total points

- 3) Assignments Assignments that not turned in by the due date will automatically be given a 'zero'. It is the students responsibility to complete all assignments and keep track of due dates set up with in the course. If a student does miss the deadline, they have 2 schools days to reach out to me to arrange to complete the assignment. Missing the deadlines will lead to a 20% reduction in the overall score on the assignment.
 - ✓ Quizzes There will be a 10 questions quiz for every chapter, those 10 questions being pulled from a pool of questions for the chapter. Students have unlimited tries for each chapter quiz, and the highest attempt will be recorded. Use these quizzes as study tools for the larger unit exams, and as a way to review the readings.
 - ✓ <u>Labs</u> You will need to have purchased and received your kit from Science Interactive in order to access the lab materials. There are combination of hands on and digital labs. ALL lab assignments will be completed in the Science Interactive online platform.
 - ✓ Exams There will be 4 exams throughout the course, including the final exam. Each exam will be worth 100 points and students will be given one attempt at the exam. The exams will be open for 24 hours on the due date and accessible via Blackboard. Students will have 60 minutes to complete the exams. These will include information from both lecture & the lab activities.
- 4) Communication: Since this is a fully online class, communication via email and Blackbooard messages will by priority. If you are having questions with any assignments or accessing the course, please reach out to me as soon as possible, so I can help you find a solution to those problems.

 Technical problems will not be accepted as a reason for not completing assignments. Please reach out to me with any questions and I will respond within 24 hours during the school week (M-F). I will be available on the weekends, but do not expect the same response time.
- 5) Class meetings: Prior to each exam, I will hold a virtual class meeting for students to join to ask questions and prepare for the exams. I will post these meeting dates at least 2 days prior so students can prepare to attend and reach out with any questions.

General Education Competency/Learning Outcome(s) <u>OR</u> CTE Competency/Department Learning Outcome(s):

- 1) To learn and retain information essential to a broad knowledge of human anatomy and physiology.
- 2) Demonstrate the application of the scientific methods of inquiry
- 3) Practice sound, safe, and sensible laboratory techniques.
- 4) Demonstrate knowledge of the natural environment
- 5) Demonstrate an awareness of the role of science 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.

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.