



BIOL 221_A&P II_Online_Syllabus

Course Prefix/Number/Title: BIOL 221 - Anatomy and Physiology II-Online

Number of Credits: 4 semester credits

Course Description: A study of the structure (anatomy) and function (physiology) of the human body. This course consists of one discussion, one two-hour lab/assignment, and one quiz each week.

Pre-/Co-requisites: BIOL 220

Instructor: Shubham Datta, PhD

Office: N/A **Office Hours:** N/A

Phone: (701)-228-5463

Email: Shubham.datta@dakotacollege.edu

Lecture Schedule: Online

Lab Schedule: Online

Textbook: Anatomy and Physiology, Patton and Thibodeau, 9th/10th Edition

Lab Manual: Hands on Labs- student ordered through <http://holscience.com/>

General Education Competency/Goal # 1: Identifies the interrelationships between humans and their environment.

LO # 3: Applies scientific information in everyday life

Course Requirements: Grading is based on a standard college curve, where students earn a grade based upon the percent of total possible points they obtain. Although subject to slight modification based on the discretion of the instructor, this course will consist of 1000 points (14 quizzes worth 10-20 points each, 1 mid-term, and 1 final exam worth 100 points each). Laboratory and assignment points are worth approximately 480 points and discussions 80 points to obtain the total points possible for the course (approximately 1000). There is a **three-day grace period to make up any missed exam or assignment with a 10% deduction for each day it is late.** Any missed exam/work not made up within the allotted time will be given a zero. It is the responsibility of the student to schedule make-up work within an acceptable period of time due to extenuating circumstances. 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 and Lab Outline:

Week 1:

- Labs (15 pts): Getting Started (5 pts) & Laboratory Safety (10 pts)
- Discussion (5 pts)
- Quiz (5 pts): Attest to reading Syllabus

Week 2:

- Reading: Blood (Ch.27) and the Heart (Ch.28)
- Begin Lab (60 pts): Cardiovascular Lab
- Discussion (5 pts)
- Quiz (20 pts): Ch. 27 & Ch. 28

Week 3:

- Reading: Blood Vessels (Ch.29) and the Circulation of Blood (Ch.30)
- Lab Due: Cardiovascular Lab
- Discussion (5 pts)
- Quiz (20 pts): Ch. 29 & Ch. 30

Week 4:

- Reading: Lymphatic System (Ch.31) and Innate Immunity (Ch.32)
- Begin Lab (60 pts): Lymphatic System Assignment
- Discussion (5 pts)
- Quiz (20 pts): Ch. 31 & Ch. 32

Week 5:

- Reading: Adaptive Immunity (Ch.33) and Stress (Ch.34)
- Lab Due: Lymphatic System Assignment
- Discussion (5 pts)
- Quiz (20 pts): Ch. 33 & Ch. 34

Week 6:

- Reading: Respiratory Tract (Ch.35)
- Lab (60 pts): Anatomy of Respiratory Lab
- Discussion (5 pts)
- Quiz (10 pts): Ch. 35

Week 7:

- Reading: Ventilation (Ch. 36) and Gas Exchange (Ch. 37)
- Begin Lab (60 pts): Respiratory Physiology Lab
- Discussion (5 pts)
- Quiz (20 pts): Ch. 36 & Ch. 37

Week 8:

- Lab Due: Respiratory Physiology Lab
- Discussion (5 pts)
- Midterm (100 pts)

Week 9:

- Reading: Upper Digestive Tract (Ch. 38)

- Lab (60 pts): Digestive System Lab
 - Discussion (5 pts)
 - Quiz (10 pts): Ch. 38
- Week 10:
- Reading: Lower Digestive Tract (Ch. 39) and Digestion and Absorption (Ch. 40)
 - Lab Due: Digestive System
 - Discussion (5 pts)
 - Quiz (20 pts): Ch. 39 & 40
- Week 11:
- Reading: Nutrition and Metabolism (Ch. 41) and Urinary Tract (Ch. 42)
 - Begin Lab (60 pts): Urinary Tract System
 - Discussion (5 pts)
 - Quiz (20 pts): Ch. 41 & Ch. 42
- Week 12:
- Reading: Fluid and Electrolyte Balance (Ch. 43) and Acid-Base Balance (Ch. 44)
 - Lab Due: Urinary Tract System
 - Discussion (5 pts)
 - Quiz (20 pts): Ch. 43 & Ch. 44
- Week 13:
- Reading: Male Reproductive System (Ch. 45) and Female Reproductive System (Ch. 46)
 - Begin Lab (60 pts): Reproductive System
 - Discussion (5 pts)
 - Quiz (20 pts): Ch. 45 & Ch. 46
- Week 14:
- Reading: Growth and Development (Ch. 47)
 - Lab Due: Reproductive System
 - Discussion (5 pts)
 - Quiz (10 pts): Ch. 47
- Week 15:
- Reading: Genetics and Heredity (Ch. 48)
 - Assignment (60 pts): Genetics and Genomics
 - Discussion (5 pts)
 - Quiz (10 pts): Ch. 48
- Week 16:
- Review
 - Discussion (5 pts): Course Wrap-up
- Week 17:
- Final (100 pts):

Relationship to Campus Focus/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
- 2) Notify the instructor of any coursework that may be late prior to the due date

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

All students are expected to adhere to the highest standards of academic integrity. Dishonesty in the classroom or laboratory and with assignments, quizzes, and exams is a serious offense and is subject to disciplinary action by the instructor and college administration. For more information, refer to the Student Handbook.

Disabilities and Special Needs

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

If you have a disability for which you need accommodations, you are encouraged to contact your instructor and Jackie Migler at 701-228-5672 to request disability support services 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.