

ZOO-2020-01
Anatomy and Physiology II
Spring 2024
Syllabus
***Subject to revision**

Instructor:

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Office Hours: MW 4:00-5:00PM, TTh 9:50-10:50AM, F 9:00-10:00AM

Students who prefer to attend online office hours are encouraged to schedule a Zoom meeting with the instructor.

Course Information:

Anatomy and Physiology II

ZOO-2020-01

4 credits

Spring 2024

Online (no in-person lecture or lab) via Moodle

Course Description:

This course is a continuation of ZOO 2010. Topics of emphasis include the endocrine, cardiovascular, lymphatic, respiratory and digestive systems, urinary and reproductive systems and genetics and early development. Prerequisite: Grade of "C" or better in ZOO 2010. (3 hrs lec, 2 hrs lab)

Course Specific Outcomes:

- Students will become familiar with the anatomy and physiology of the major organ systems of the human body through textbook readings and lectures.
- Students will engage in critical thinking and scientific modes of investigation through virtual laboratory experiments.

Program Specific Outcomes:

- Demonstrate an understanding of the major biological principles pertinent to the field of biology and appropriate for the included pre-professional transfer programs.
- Demonstrate sound scientific reasoning and familiarity with basic scientific methodology and experimental procedures.
- Be able to organize, analyze, and interpret data
- Demonstrate oral and written communication skills

Required Textbook:

Hole's *Anatomy and Physiology 16th Edition*
Welsh and Prentice-Craver
McGraw Hill
ISBN 978-1-260-26522-4

Lectures:

Lectures will be pre-recorded and posted on Moodle. Lectures will be posted as the semester progresses.

Textbook readings: Students should read and take notes on textbook chapters associated with weekly lectures. Figures from the textbook will make up the majority of anatomical diagrams used for course instruction, so familiarity with the textbook will be a help to students.

Fees:

There is a \$60 fee associated with this course.

Warning on sensitive material:

Students will be required to learn and engage with material dealing with the physical form, components, and functions of the whole human body. They should be prepared to study images, descriptions, and specimens of healthy, diseased, or deceased bodies.

Grading:

The lecture section of the course will include grades for two midterm exams, a final exam, and any potential additional assignments. The contribution of each assignment/exam to a student's final grade is as follows: Exam 1 (up to 25%), Exam 2 (up to 25%), Final Exam (up to 30%), additional assignments (up to 10%).

The lab section of the course will include grades for several equally weighted laboratory writeups (20% of final grade; the lowest scoring two writeups for each student will not be included in the final grade).

Students will receive a letter grade reflecting these percentage totals based on the following scale:

- A: >=90%
- B: 80-89%
- C: 70-79%
- D: 60-69%
- F: <60%

Students must receive a D to pass the course. A grade of C may be required for this course to qualify as a pre-requisite for future courses.

Class meeting changes:

In the event that significant changes have occurred with regard to class meeting (such as weather or illness), the instructor will send out an announcement via email and/or Moodle. The instructor will attempt notification by 8:00 am if applicable.

Make-up Exams:

Students should attend all exams as scheduled. Make-up exams may be given on a specific date at mid and end semester if students have legitimate excuses for missing exams. Legitimate excuses for missing class and/or exams are:

- 1) Participating in official college activity (e.g. sports, debate, etc.)
- 2) Funerals
- 3) Serious illness of self or child
- 4) All others are subject to review

If your excuse is deemed unacceptable, you may be allowed to make up the exam with a 20 percent penalty and be ineligible for bonus points, according to the instructor's discretion. Only students who are absent for legitimate reasons will not be penalized. Also, make-up exams will likely be different from regular exams.

Academic Honesty:

Students are required to author their own assignments. Any plagiarized assignments will automatically be given a zero grade, and further disciplinary action may be enforced, including failure of the course or expulsion from Northwest College.

All exams are to be completed independently without the aid of notes, digital devices, or other people. Cheating on an exam will result in a grade of zero for the exam. Multiple occurrences of cheating by the same student are grounds for automatic failure of the course and potential further disciplinary action.

Deadlines:

Extensions can be requested before the due date according to the instructor's discretion. Students should not assume that all extension requests will be granted.

Northwest College Universal Syllabus:

Universal syllabus information can be found at this link:

<https://nwc.edu/academics/syllabi/universal-syllabus-information>

Course Outline

Unit	Chapter	Lectures	Lab Exercise	Exam
Unit 1: Transport	Chapter 13	Endocrine System	Intro to Vascular System	
	Chapter 14	Blood	Blood Typing and Hematocrit	
	Chapter 15	Cardiovascular System	Heart Dissection	
	Chapter 16	Lymphatic System	Vasculation	
	Chapter 16	Immunity	TBD	Unit 1 Exam
Unit 2: Absorption and Excretion	Chapter 17	Digestive System	Digestive System	
	Chapter 19	Respiratory System	Respiratory System	
	Chapter 20	Urinary System	Kidney Dissection	
	Chapter 21	Water, Electrolyte, and Acid-Base Balance	TBD	Unit 2 Exam
Unit 3: Human Life Cycle	Chapter 22	Reproductive System	Reproductive System	
	Chapter 23	Development	Development	
	Chapter 24	Genetics and Genomics	Genetics Exercise	
				Final Exam