**SPRING 2024**

**COURSE SYLLABUS**

**DIVISION OF NATURAL SCIENCE**

**CAMPBELLSVILLE UNIVERSITY**

**I. Course Information**

BIO 222 Human Anatomy and Physiology II

Lecture (-01): MWF 11:00 a.m. – 11:50 a.m. BASC Atrium

Lab (-91): W 2:00 p.m. – 4:00 p.m. BSN 112

Lab (-92): TH 2:00 p.m. – 4:00 p.m. BSN 112

Lab (-93): TH 4:00 p.m. – 6:00 p.m. BSN 112

 Course description from 2015-2017 catalog:

 “A continuation of BIO 221 that covers the endocrine, cardiovascular, lymphatic, respiratory, digestive, excretory, and reproductive systems. Prerequisite: BIO 221 or consent of the instructor.”

Texts:

1. VanPutte, C et al. 2023. Seeley’s Anatomy and Physiology, 13th ed. NY: McGraw-Hill Education. ISBN: 978126410388-1 (bound) or other format. **AND**

2. Wise, E. 2020. Laboratory Manual Seeley’s Anatomy and Physiology, 12th ed. NY: McGraw-Hill Education. ISBN: 9781260399059.

**Contact Information:**

Instructor:

Dr. William J Mackay Office: Carter Hall 204

Phone: (270) 789-5487 (office), 814-440-7950 (cell)

E-mail: wjmackay@campbellsville.edu

 Office Hours: MWF 8-9

 M 12-2

 TR 8-9:30

 ZOOM CONNECTION: William Mackay ID #: 225 125 1281

 Passcode: 018297

 Dr. Mackay’s Web Page: [www.wjmmackay.com](http://www.wjmmackay.com)

 To report emergencies or an incident on campus please call

The Office of Campus Safety and Security @ (270)-789-5555 or cell phone (270)-403-3611.

**II. Purpose/Objectives/Assessment**

 **CU Mission Statement -**

**“Campbellsville University is a comprehensive, Christian institution that offers pre-professional, undergraduate and graduate programs. The**

**University is dedicated to academic excellence solidly grounded in the liberal arts that fosters personal growth, integrity and professional**

**preparation within a caring environment. The University prepares students as Christian servant leaders for life-long learning, continued**

**scholarship, and active participation in a diverse, global society.”**

Human Anatomy and Physiology is a course for Nursing majors and preparation for other allied health programs and health profession programs.

Human Anatomy and Physiology is designed to provide an overview of how the human body functions and an opportunity for the students to begin to learn the parts of the body. In some cases, the ways in which the body does not function properly will be covered.

Desired outcomes and assessment:

1. Students will be able to recall the basic ideas of physiology.

(Evidence: exams)

2. Students will be able to locate selected parts of the body.

 (Evidence: exams)

3. Students will be able to describe selected diseases of humans.

 (Evidence: exams)

**III. Course Outline**

Prerequisites:

BIO 221 Human Anatomy and Physiology I or consent of instructor

Topical Outline:

 CHAPTER TOPIC

 19 Cardiovascular System: Blood

 20 Cardiovascular System: Heart

 21 Cardiovascular System: Blood Vessels and Circulation

 **EXAM I** – Feb. 2\* (\* tentative)

 22 Lymphatic System and Immunity

 23 Respiratory System

 **EXAM II** – Mar. 1\*

 24 Digestive System

 25 Nutrition, Metabolism, and Temperature Regulation

 **EXAM III** – Mar. 27\*

 26 Urinary System

 27 Water, Electrolyte, and Acid-Base Balance

 **EXAM IV** – Apr. 12\*

 17 Functional Organization of the Endocrine System

 18 Endocrine Glands

 28 Reproductive System

 29 Development, Growth, Aging, and Genetics

 **EXAM V**– week of Apr 29-May 3\*

Each lecture will cover the textbook information which is perceived as the most difficult or most important. It is important to read the textbook chapters before lecture in order to have the necessary background to follow the lecture.

**IV. Evaluation and Requirements**

Your final grade for BIO 222 will be based on the following:

Lecture Exams (Feb 2; Mar 1; Mar 27; Apr 12; Apr29-May3) 50%

Lecture Quizzes 30%

 Lab Exams (Jan. 31; Feb. 14; Mar 13; Apr. 24) 20%

 TOTAL 100%

(Late work: The student will lose 10% of the points for an assignment for each class period that it is late. Unless previous arrangements have been made, no work will be accepted after 5:00 p.m. of the last day of classes. Work is due at the beginning of class unless otherwise specified.)

Letter grades will be assigned based on your point totals with the following:

90% and above = A

89% - 80% = B

79% - 70% = C

69% - 60% = D

59% and below = F.

The lower limit for one or more of the letter grade ranges may be lowered depending on the performance of the class.

The major exams will cover lecture notes. The questions on an exam may be objective or discussion. The types of questions on the exams will include multiple choice, short answer, and essay. If there is a change from the schedule above, notice of the date of major exams will be given at least one week in advance.

 Periodic lecture quizzes will be given to encourage preparation.

Special assignments and extra work will not be allowed as a substitute for performance on quizzes, assignments, or exams.

Assistance available:

Assistance is available from the instructor. Also, check at the BASC for tutoring assistance.

Expectations of the student:

Students are expected to read material before class, be on time to all classes and labs, listen and take notes during class, review notes and material after class, ask questions or get assistance as needed, be prepared for exams by reviewing notes and material to be covered by the exam, and submit assignments on time. Students should expect to devote at least 2 hours outside of class for every hour in class.

Unless informed otherwise lectures and labs meet as long as the University is in session. See the CU Web site for weather related announcements.

**V. Attendance**

See the student handbook for the full university policy.

Students are expected to attend class and attendance will be recorded. If you are late, it is your responsibility after class to request the instructor to change your absence to tardy.

Absences due to illness, unavoidable personal emergency, or participation in a university-sponsored event: You will be allowed to make-up all work (see Appendix B). If an anticipated absence occurs on a date that an assignment is due, then you need to turn in the assignment before your absence. These absences still count in determining your total absences.

Other absences: You will generally not be able to make-up quizzes (see Appendix B).

When you have been absent 4 times, **for any reason**, the Dean of Academic Support will be informed and you will receive a warning. Other individuals who may be affected by your absences may also be apprised of your situation.

When you have been absent 8 times, **for any reason**, the Dean of Academic Support will be informed and the process to award a grade of WA will be initiated.

The attendance policy also applies to the labs separately. Since labs are once a week, 2 absences and 4 absences produce the same results as 4 and 8 absences above.

Under extenuating circumstances, allowances in this policy may be made by the instructor in conference with the student.

**VI. Academic Integrity**

**Academic integrity is expected from all students and the instructor. Cheating or plagiarism will not be tolerated and will result in a 0 for the exam or assignment.** A second occurrence may result in a course grade of F. See the CU catalog page 38 in the 2017-2019 edition or the student handbook. Also see the Division of Natural Science Academic Integrity Policy.

**VII. Title IX Information**

 “Campbellsville University and its faculty are committed to assuring a safe and

productive educational environment for all students. In order to meet this commitment and to comply with Title IX of the Education Amendments of 1972 and guidance from the Office for Civil Rights, the University requires all responsible employees, which includes faculty members, to report incidents of sexual misconduct shared by students to the University's Title IX Coordinator.

Title IX Coordinator:

Terry VanMeter

1 University Drive

UPO Box 944

Administration Office 8A

Phone – 270-789-5016

Email – twvanmeter@campbellsville.edu

Information regarding the reporting of sexual violence and the resources that are

available to victims of sexual violence is set forth at: [www.campbellsville.edu/titleIX](http://www.campbellsville.edu/titleIX).”

**VIII. Students with learning differences**

“Campbellsville University is committed to reasonable accommodations for students who have documented learning and physical disabilities, as well as medical and emotional conditions. If you have a documented disability or condition of this nature, you may be eligible for disability services. Documentation must be from a licensed professional and current in terms of assessment. Please contact the Coordinator of Disability Services at 270-789-5450 to inquire about services.”

**IX. Bibliography**

Sources for further study may be found listed in the Web site for the textbook.

**NOTE: THE PROFESSOR RESERVES THE RIGHT TO CHANGE ANYTHING ON THIS SYLLABUS EXCLUDING THE GRADING SYSTEM.**

**APPENDIX A**

**LAB SCHEDULE**

(tentative)

WEEK DATES EXERCISES

|  |  |  |
| --- | --- | --- |
| 1 | Jan. 17-18 | Exercise 25 BloodExercise 26 Blood Tests and Typing |
| 2 | Jan. 24-25 | Exercise 27 Structure of the HeartExercise 28 Electrical Conductivity of the HeartExercise 29 Functions of the Heart |
| 3 | Jan. 31-Feb 1 | Lab Exam I (50 points) – Exercises 25-28 |
| 4 | Feb. 7-8 | Exercise 30 Introduction to Blood Vessels and Arteries of the Upper BodyExercise 31 Arteries of the Lower BodyExercise 32 Veins and Special Circulations |
| 5 | Feb. 14-15 | Lab Exam II (50 points) – Exercises 30-32 |
| 6 | Feb. 21-22 | Exercise 33 Functions of Vessels and the Lymphatic SystemExercise 35 Structure of the Respiratory System |
| 7 | Feb. 28-29 | Exercise 38 Anatomy of the Digestive System |
|  | Mar. 6-7 | Spring Break |
| 8 | Mar. 13-14 | Lab Exam III (50 points) – Exercises 33, 35, 38 |
| 9 | Mar. 20-21 | Exercise 40 Anatomy of the Urinary SystemExercise 41 Urinalysis |
| 10 | Mar. 27-28 | Exercise 24 Endocrine System |
| 11 | Apr. 3-4 | Exercise 42 Male Reproductive SystemExercise 43 Female Reproductive System |
| 12 | Apr. 10-11 | Genetics (handout 1)  |
| 13 | Apr. 17-18 | Genetics (handout 2) |
| 14 | Apr 24-25 | Lab Exam IV (50 points) – Exercises 24, 40-43, genetics |

**APPENDIX B**

**REQUEST TO MAKE-UP WORK/BE EXCUSED FROM ASSIGNMENT**

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 (Print and sign)

Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date of Absence \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (this form must be submitted at least by the next class period that you are present or before the absence for participation in a university-sponsored event)

Reason for Absence

 □ Illness

□ Unavoidable personal emergency

□ Participation in a university-sponsored event

 Provide more information or other reason:

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Work missed \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

□ Work to be made-up by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

□ Excused from \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

□ Work counts as a zero (0)

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 Instructor date