

**Human Anatomy and Physiology Lecture Syllabus**  
**Biology 231-001 (16407)**  
**Summer 2021**

**Instructor:** Dr. Kerrie McDaniel

**Meeting Times:** **This course will be offered online for the summer only . This course is asynchronistic but there are times that you will be scheduled:**

- Tuesday June 1st at 9:00 a.m. CST- Zoom Introduction & Syllabus
- Tuesday, June 8<sup>th</sup> at 10:30 a.m. CST- Test 1
- Tuesday, June 15<sup>th</sup> at 10:30 a.m. CST- Test 2
- Friday, June 25<sup>th</sup> at 10:30 a.m. CST- Final Exam (Test 3)

**Building and Room:** Web

**Contact Information/emails:** Dr. Kerrie McDaniel

**Office:** KTH 3045

**Office Hours:** by appointment

**Email:** [Kerrie.mcdaniel@wku.edu](mailto:Kerrie.mcdaniel@wku.edu)

Emails will be answered between 8:00-5:00 on weekdays. While emails *may* be answered at other times, 24/7 access should not be expected. Please include your name and class in the subject line or the message of your email.

**Pre-requisites:** Biology 131 with a “C” or higher

**Required Materials:**

**For lecture in Biol 131 and Biol 231:** Saladin, (WKU) BIOL131/231: MHHE DIRECT PPK ECOMM

Connect with APR and Phils for Anatomy and Physiology: The Unity of Form and Function with VS EBOOK, 9th ed. (2021) ISBN: 1265190275 / 9781265190279

**For lab:** Martin, Terry, Laboratory Manual for Human Anatomy and Physiology, 3<sup>rd</sup> edition. McGraw Hill ISBN: 978-259-29885-3.

**READ BEFORE PURCHASING TEXT/MATERIALS:**

The Biology Department at WKU has worked over the past year to develop a new model for textbook adoption. In order to save you some money, maximize your effective use of your textbook, increase learning and evaluate the best ways of teaching you difficult topics, we’ve entered into a partnership with McGraw-Hill publishers. By enrolling in this course, you agree to purchase the digital materials associated with this course. These materials include 12-month or 24-month (depending on the course) access to Connect, LearnSmart or LabSmart where appropriate, a downloadable e-copy of the textbook which is yours to keep, and the option to print a gray-scale copy of your textbook at greatly reduced cost. If you want a printed copy, that’s about \$25, but you must order that through the WKU Store during the first week of class. In order to make these savings available to you, WKU must institutionalize the purchasing process. **As a result, about two weeks into the semester, you will be billed the cost of the materials for the course.** The nice thing about this is that you will have access to all the course materials from day one, without doing a thing! If you choose to drop the course during the regular add-drop period, you won’t be charged for the book. You should note that for this course, you WILL be charged for the digital materials. Do NOT buy a copy of the book from online or local vendors. ONLY the digital format will be used in this course.

**Goals:** The general goals of this course are:

*Students will have an understanding of:*

1. Scientific method and scientific processes
2. the relationship between form and function in the human body
3. the mechanisms for maintenance of homeostasis in the human body
4. the hierarchy of organization of the human body
5. the use of models to demonstrate anatomy and physiology
6. how anatomy and physiology is applied in real-life settings

**Objectives:**

*Students will be able to:*

1. Describe the form and function of basic cells, tissues and organs in the human body
2. Explain the anatomy and physiology of major systems such as the nervous system, circulatory system, urinary system, endocrine system etc.
3. Summarize cellular events that maintain homeostasis in the human body.
4. Assess the interaction of tissues, organs and organ systems with others in the human body.
5. Classify humans among other living organisms
6. Differentiate between mitosis and meiosis and explain how DNA processes affect phenotypes
7. Give examples of the cell's response to stress and relate these to human disease
8. Correlate different types of vessels with fluid mechanics and capillary dynamics
9. Examine examples of mechanisms of homeostasis such as acid-base reactions
10. Discuss the components and the functions of the lymph system
11. Compare and Contrast the mechanisms, structures and organs involved in neuroendocrine physiology
12. Summarize the systems, organs and tissues involved in stress reactions and their responses

**Topics Will Include:**

- Taxonomy of Humans
- Course Themes/Homeostasis
- Genetics and How it affects A&P
- Adaptive Responses of Tissues to Stress
- Regulation and Maintenance of Fluids
- Acid/Base Balance
- Review of Blood Vessels
- Capillary Dynamics
- Lymph System
- Immunity
- Blood Cell Formation
- Introduction to Stress and Adrenal Gland
- Endocrine Regulation
- Hormones
- Neuroendocrine Regulation
- Nervous System Physiology

**The Course:** A&P moves very quickly in the summer. The online format will consist of MediaSite videos, homework assignments, and Zoom sessions if needed.

**Grading:** Your lecture average will be calculated and then used along with your laboratory average to determine your **overall** grade for the course. The lecture average will represent 60% of your overall course grade (your lecture average will constitute the remaining 40%). This means you will **not** receive a separate grade for the lab at the end of the semester; your lab grade will be included as part of your **overall grade** shown on the lecture side of the course.

You can calculate your overall grade by:

- Taking your lab average and multiplying it by .4
- Taking your lecture average and multiplying it by .6
- Adding these 2 numbers together

**Grading Scale for Lecture/Lab Combination:**

A= 90-100%

B=80-89%

C=70-79%

D=60-69%

F= Below 60%

***\*\*Remember: Grades are not given. The Instructors simply record the grade that you have earned.***

**Tentative Assessment Table:**

Assessment	Points Per Assignment	Total Number of Points
Homework	<ul style="list-style-type: none"><li>• Varies per assignment (5-20 points each)</li><li>• Ten assignments</li></ul>	<b>110 points</b>
Tests	<ul style="list-style-type: none"><li>• 100 points each</li><li>• 2 total</li></ul>	<b>200 points</b>
Final Exam	<ul style="list-style-type: none"><li>• 100 points</li></ul>	<b>100 points</b>
<b>Total Number of Points Possible</b>		<b>410 points possible</b>

**Assessment Descriptions:**

**Homework:** Homework assignments are designed to help you master the topics covered in class and the reading material. Homework assignments are LearnSmart assignments generated by the McGraw-Hill Company or Concept Overview Virtual Interactives. Learnsmart is designed to quiz you over topics that I have selected for you to study and to reinforce what you read in the e-textbook. Studies on Learnsmart have shown increased student performance when this program is used. It should not be used as the sole method of study for exams.

- **Smartbook Homework Assignments:** Smartbook homework assignments are based on the readings that are assigned in the e-text. These assignments will help you determine if you understand what you are reading or if you need to review. They are adaptive. This means that if you do not understand a section you will be referred to a reading selection in your text and then retested on that item. So a student who understands the reading will spend less time on homework than a student who is trying to answer the questions without doing the reading or comprehending the material. Within the LearnSmart homework you will find the Smartbook. This version of your e-textbook will highlight important parts of the text in yellow. When you have mastered a section the color of the highlight will turn to green. You will want to go through the tutorial on how to use the Smartbook before you start your homework.
- **Conceptual Interactive Overview Assignments (COVI):** There are a couple of your homework assignments that are not from LearnSmart. These are Conceptual Interactive Overview Assignments. These are interactive assignments that help to explain more complex physiology. Read/listen to the introduction and then follow the instructions in the simulation. After the simulation you will have questions to answer over what you did during the animation.

Homework assignments are open for an extended length of time so that you can work through the reading with comprehension. The date and time that they are due can be found in Blackboard and within the McGraw Hill platform. Pay attention to these dates and times! Since there is more than ample time to complete these assignments, there will be **no extensions on due dates for homework!** Do not ask. The answer is no. Do not wait until the last minute to try to complete these assignments. The point of the assignments is to help you learn; rushing through assignments to earn points does not meet this goal. Start early, work on them often and meet the deadlines.

**Exams:** You will take an electronic version of the exam on your personal computer using the Respondus Lock-down browser. Tests will be administered electronically. On the dates listed below (and on the schedule) you will log into Blackboard and find the tests in the “Tests and Quizzes” folder. The tests will be timed and you will not be allowed to backtrack. That means that once you leave a question you will not be able to return to it. All academic honesty and integrity standards will be expected.

- Tuesday, June 8<sup>th</sup> at 10:30 a.m. CST- Test 1
- Tuesday, June 15<sup>th</sup> at 10:30 a.m. CST- Test 2
- Friday, June 25<sup>th</sup> at 10:30 a.m. CST- Final Exam (Test 3)

**Makeup Exams** are only given in **EXTREME circumstances for documented university excused!** You will not be allowed to make up an exam without documentation. Make-up exams may require you to come to campus to take your exam or be a different format, including Zoom oral exams. Examples of circumstances where make up exams may be allowed include:

- Documented hospitalization
- Attending a university sporting event where you are a player
- Attending a university academic event such as a conference/debate etc. where you are a presenter or performer.

**\*\*A snuffle is not an excused illness. Work is not an excused event. Oversleeping is not an excused absence. Someone other than you having a baby is not an excuse. Participating in a wedding is not an excuse. Procrastination or other tests on the same day are not excused absences.**

**IF** allowed to makeup an exam due to a documented, university excused absence, the Make-up exams will NOT be the same as given to other students at the appointed time and may be in a different format (such as mostly essay).

**General Policies:** General policies are simple and based on respect. This involves:

- Attending class on time
- Remaining in the class the entire period until dismissed
- Paying attention in class and taking notes
- Turning off cell phones and beepers
- No excessive talking or inappropriate behavior (reading newspapers, making rude remarks etc.)

**Academic Integrity and Misconduct:** Don't cheat. Cheating is not only disrespectful (violating general policies) but it is also dishonest. Cheating on quizzes, exams or assignments will result in a failing grade for the course and could result in expulsion from the university. It is not worth it. Do your own work.

**Attendance:** Experience has shown that poor attendance in class results in poor grades. You must come to class to maximize all of the resources available to you to learn course material. If you are not in class, you will not know which information is stressed.

**Deadlines:** The University designated deadlines for withdrawal from a class or the university are firm. Credit for the course will not be changed to an audit after the university-designated time due to a poor grade in the class. Please make note of these dates. Dropping the class after the university deadline requires a written explanation by you and signatures from the Instructor, the department head and the dean of Ogden College. These exceptions are only granted in extreme circumstances. So ABIDE by the deadlines!

These deadlines can be found at the following location:

<https://www.wku.edu/registrationguide/>

### **End of Semester Policies:**

- There is no “extra credit” for the course. Do not ask. Study hard, do well on the tests and quizzes.
- Grades are not completed until final grades are posted in TOPNET, so please do not email and ask if grades are finished.
- The grading scale is posted on this syllabus. If you have an 89.45876, then you are guaranteed at least a B in the course. If grades are not posted in TOPNET, then they are not complete (see above bullet), so please do not email and ask if there is “rounding up”. You will know if any adjustments were made when grades are posted on TOPNET. Emails asking about “rounding up” or about what final grades will be until after they are posted in TOPNET will be ignored.
- There is absolutely no “making up” missed homework assignments. Get it done when it is due.

### **Blackboard Entry**

www.wku.edu (choose "Blackboard" from the pull down menu)

### **Family Educational Rights and Privacy Act:**

Due to the Family Educational Rights and Privacy Act (FERPA), if you are 18 years old or older, I cannot discuss your grades, etc. with your parents.

### **Title IX Misconduct/Assault Statement**

Western Kentucky University (WKU) is committed to supporting faculty, staff and students by upholding WKU's Title IX Sexual Misconduct/Assault Policy (#0.2070) at <https://wku.edu/eoo/documents/titleix/wkutitleixpolicyandgrievanceprocedure.pdf> and

Discrimination and Harassment Policy (#0.2040) at [https://wku.edu/policies/hr\\_policies/2040\\_discrimination\\_harassment\\_policy.pdf](https://wku.edu/policies/hr_policies/2040_discrimination_harassment_policy.pdf).

Under these policies, discrimination, harassment and/or sexual misconduct based on sex/gender are prohibited. If you experience an incident of sex/gender-based discrimination, harassment and/or sexual misconduct, you are encouraged to report it to the Title IX Coordinator, Andrea Anderson, 270-745-5398 or Title IX Investigators, Michael Crowe, 270-745-5429 or Joshua Hayes, 270-745-5121.

Please note that while you may report an incident of sex/gender based discrimination, harassment and/or sexual misconduct to a faculty member, WKU faculty are “Responsible Employees” of the University and **MUST** report what you share to WKU's Title IX Coordinator or Title IX Investigator. If you would like to speak with someone who may be able to afford you confidentiality, you may contact WKU's Counseling and Testing Center at 270-745-3159.

## **ADA Accommodation Statement**

In compliance with University policy, students with disabilities who require academic and/or auxiliary accommodations for this course must contact the Student Accessibility Resource Center located in Downing Student Union, 1074. SARC can be reached by phone number at 270-745-5004 [270-745-3030 TTY] or via email at [sarc.connect@wku.edu](mailto:sarc.connect@wku.edu) . Please do not request accommodations directly from the professor or instructor without a faculty notification letter (FNL) from The Student Accessibility Resource Center. We take student success very seriously and want to make sure to provide an environment where all students can succeed while not discounting the integrity of the course. For this reason we require that you meet with me to discuss how to best meet your needs and come to a mutual agreement on how to accomplish these goals. I will not “just sign the form”. If additional time is required on exams, with permission, you will arrange to take these exams at SARC on campus. If you are not able to do this then consider taking this course a different semester.

**WKU Policies:** <https://www.wku.edu/syllabusinfo/index.php>