

# **Adv. Biology Anatomy and Physiology**

Teacher: Kendra Currey

I suggest that students or parents print this syllabus and keep it in their homeschool records for reference throughout the year.

About the Teacher/Contact Info:

Kendra Currey

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Greetings!

I look forward to having you in class. I grew up in a family where both my parents were teachers. I loved how they taught and planted a love for learning inside me. After going through school and obtaining my paramedic certification, I desired to help others understand anatomy and physiology in order to treat their patients properly. I began teaching at the Community College and have been teaching there since 2001. After 20 years of paramedicine, I now have an opportunity to homeschool my children and teach online. I am passionate about anatomy and physiology and look forward to helping you learn about the miracle of life.

I am also very passionate about missions and helping others know our Creator. Studying Anatomy and Physiology allows us to really understand how creative God is and I desire that creation science be taught to our children. I have chosen this curriculum that brings God the Glory and will emphasize God's creative touch when He created us as I teach. My desire is to help you understand that you are truly fearfully and wonderfully made!

## **Class Description**

This advanced biology course covers both the anatomy and physiology for each system of the body. I will also be introducing some disease processes that occur in each of these systems. I will be using experiences as well as medical research when introducing scenarios throughout class. Please note that we will be covering the reproductive system in module 16. This book does have accurate, respectful illustrations and descriptions. We will only be discussing the second half of Module 16 in class.

- Module 1 – Introduction to Anatomy and Physiology
- Module 2 – Histology: The Study of Tissues
- Module 3 – The Integumentary and Skeletal Systems
- Module 4 – The Skeletal System Histology and Movement
- Module 5 – The Muscular System Histology and Physiology
- Module 6 – The Skeletal Muscle System
- Module 7 – The Nervous System
- Module 8 – The Central Nervous System

- Module 9 – The Peripheral Nervous System
- Module 10 – The Endocrine System
- Module 11 – The Cardiovascular System
- Module 12 – The Lymphatic System
- Module 13 – The Digestive System
- Module 14 – The Respiratory System
- Module 15 – The Urinary System
- Module 16 – The Reproductive System

### **Grade Level and Prerequisites**

This course is open to high school students grades 9-12.

Students who have taken high school Biology and Chemistry courses will be very well prepared for this course and will have a much better understanding of what we will be discussing.

Apologia recommends a high school Chemistry course so you will understand the information presented about chemistry. The topics covered that relate to chemistry are pH levels, charged atoms (ions), elements and their abbreviations, and a basic understanding of chemical equations. We will discuss these in class so you should be ok to take this class if you haven't had chemistry.

### **Credit:**

This can be used as a full year high school science credit. This course in conjunction with Biology prepares students to take the Advance Placement (AP) or College Level Examination Program (CLEP) tests.

### **Supplies and Materials:**

- The Human Body (Advanced Biology) Student Textbook, 2nd Edition **(Required)**  
Publication Date: 2013  
ISBN: 1935495720  
ISBN-13: 9781935495727
- **Lab Kit – needed 2<sup>nd</sup> Semester Cow's eye, Sheep's Heart, Fetal Pig. (Required)**
- **Dissecting kit supplies (Required for 2<sup>nd</sup> semester. Please order prior to 2<sup>nd</sup> semester.)**
- Advanced Biology 2<sup>nd</sup> Edition Student Notebook (Optional)  
ISBN 978-1-940110-38-7
- The Anatomy Coloring Book 4th Edition. (Optional)  
By: Wynn Kapit, Lawrence M. Elson  
ISBN: 0321832019 / ISBN-13: 9780321832016

Listed below are a few places you may purchase the above materials:

- [www.Apologia.com](http://www.Apologia.com)
- [www.Christianbooks.com](http://www.Christianbooks.com)
- [www.Homesciencetools.com](http://www.Homesciencetools.com)

### Grading Scale:

90-100 = A

80-89 = B

70-79 = C

60-69 = D

59 and below = F

Below is a chart showing the points possible for each assignment each semester. The students will receive a grade for 1<sup>st</sup> Semester and 2<sup>nd</sup> Semester.

<b>Assignment</b>	<b>Points Awarded</b>
Discussions	<b>15 points each</b> (full credit if there are 2 responses to other students, 0 points if there are no other responses to students discussions)
On Your Own Assignments	<b>5 points each</b> (if completed and corrected)
Individual Class Presentations	<b>50 points each</b> (Must complete all listed requirements)
Quizzes	<b>50 points each</b> (Must be done on time to receive credit)
Study Notes	<b>100 points each</b> (100 points if complete, 0 points if incomplete)
Exams	<b>100 points each</b> (Must be completed on time to receive credit)
Lab Sheets	<b>50 points each</b> (Must follow the rubric)

### Lectures

Online lectures will be 90 minutes each week. The breakdown will be as follows:

1. 30 minutes Review and class discussion
2. 50 minutes lecture over information for the current week.
3. 10 minutes answering questions about labs or other questions regarding the class

## Homework

- Discussions will always be due prior to class  
(We will be going over the discussions first thing in class)
- On Your Own Assignments are due prior to class. Please make sure you have reviewed them and looked up the answers at the end of your chapter. This is to help you make sure you are understanding the material.
- Lab Sheets – must be fully completed and typed per instructions.
- Study Notes – If they are complete, you will receive 100 points. If they aren't complete, you will receive 0 points. These will be graded only on complete / uncomplete. These are put together in order to help you learn how to take good notes in preparation for college course work.
- Individual Class Projects will be presented at the beginning of class. Please come prepared.

All homework will be uploaded onto the course shell. In order to receive credit for the assignment it must be posted by the time and date in the calendar.

1. Posted on the due date: 100% of points awarded
2. Posted after the due date: 50% of the points awarded
3. Never turned in within the semester: 0% of the points awarded.

## Quizzes / Exams

- Quizzes will be taken after every module. There will be 2 attempts for each quiz.
  1. Quizzes taken by due date: 100% points awarded
  2. Quizzes taken after the due date: 0% points awarded
- There are 5 exams throughout this class. Only 1 attempt for the exams.
  1. Exams taken on Due date: 100% points awarded
  2. Exams taken after due date: 0% points awarded

## LABS

- Most labs will be done at home on your own time
- Lab sheets with the recordings of the lab results will need to be uploaded in order to receive credit.
- There are 3 labs that we will do together after class. I will be available to answer questions.
- These labs will be done after the class lecture.
- I will be available 1 hour longer than the normal class.
- The labs that will be done in class are:
  1. **Cow's Eye dissection (Second Semester)**
  2. **Cow's Heart Dissection (Second Semester)**
  3. **Fetal Pig Dissection (Final project Second Semester)**

**\*\*\*Please make sure you have these supplies prior to second semester.**