

# **St. James Academy**

## **Anatomy & Physiology**

### **Syllabus**

1. Teacher: Mr. Greg Hohensinner  
755 Limit 913-682-1994(parents only)  
Leavenworth, Ks. 66048  
[ghohensinner@sjakeepingfaith.org](mailto:ghohensinner@sjakeepingfaith.org)

#### 2. Descriptive Information:

##### A. Archdiocese of Kansas City in Kansas Science mission statement:

The mission of science education in the Archdiocese of Kansas City in Kansas is to utilize science as a vehicle to prepare all students as lifelong learners who can use science as stewards of God's creation, to make reasoned decisions, and to contribute to their local, state and international communities.

##### B. Course Name and Number:

Anatomy & Physiology SC 401

##### C. Course Description:

This is an advanced biology class that will study the structure and function of the human body. Regular classroom work is enhanced with dissection of the cat. Careers utilizing anatomy and physiology will be introduced.....medicine, physical therapy, nursing being just a few.

##### D. Credit: 1 credit

##### E. Prerequisite: Biology

### 3. Course Objectives:

- A. The A & P student will understand the cell theory.
- B. The A & P student will learn the different parts to a cell.
- C. The A & P student will have a thorough understanding of the Skeletal system.
- D. The A & P student will be able to describe in detail the process called Mitosis.
- E. The A & P student will be familiar with the subdivisions of A & P.
- F. The A & P student will have a complete understanding of how a muscle contracts.
- G. The A & P student will be familiar with a number of muscles located throughout the body.
- H. The A & P student will learn many of the origin and insertion's dealing with the muscles.
- I. The A & P student will have the knowledge of what exercise will do to your muscles.
- J. The A & P student will be able to identify through dissection, the muscles of the cat.
- K. The A & P student will be able to reconstruct the skeleton of the cat.
- L. The A & P student will be familiar with the reproductive cycle of the human body.

4. Course Content:

A. Body organization at the cellular level.

B. Tissues

C. Integument

D. Skeletal System

E. Muscle Tissue

F. Eye's & Ear's

G. Dissection of the cat/reconstruction

H. Brain/Nervous System

I. Male/Female reproductive system

J. Guest Speakers

K. Class Project

## 5. Course Requirements:

**The Anatomy & Physiology student will have homework every night.** It may not be written homework, but may be studying daily material. If he/she does not understand the material covered they should come in early and ask for some additional help. **I will be glad to help them when they are having difficulties.(I will be here almost everyday starting at about 7:30 A.M.)** The students should be taking notes off of the power points presented in class. They must keep them on their computer/In A Notebook.

If a student is absent from school, all work should be made up by the next class unless other arrangements were made. **When a student misses class due to any reason, they are required to come and see me the next morning before school to turn in any homework that was not turned in when it was due and also find out what they missed in class.** If you miss a quiz then the next quiz they take will count for double the points. If they miss a test then the test should be made up the next morning they return to school. This should be before school and is made up the first morning they return to school whether they have class that day or not.

The following is a copy of a proper heading that **must** be on **every** paper that is turned in.

**Name:** Chase Daniels  
**Class:** A & P  
**Hour:** 2<sup>nd</sup> Hour  
**Assignment:** Chapter Report  
**Teachers Name:** Mr. Hohensinner

### Class Project:

The A & P students are required to make some anatomical part of the body. This should be made out of anything they may find at home in the garage or basement. They may have to purchase some parts to this, but not many. They will also write a short 2-page paper with this project. The students will present these when they turn in the project.

## Dissection of the cat:

This takes place after Christmas break and will last almost the entire 2<sup>nd</sup> Semester with testing coming about every 3 weeks. It is very important to know that there is no written homework during this time. So students grades come strictly from the test and the reconstruction of the cat.

Towards the end of dissection ( approximately the 3<sup>rd</sup> week of March) they will start reconstruction of the cat. At this time the A & P students will probably be bringing the cat home for removal of the muscle and tissue and for reconstruction of the bones of the cat skeleton. Time for the completion has been increased from 9 days to 14 days this year. This will give them at least two weekend periods to complete the cat. I will also open up the lab at St. James at 6:00 A.M., on school days for anyone wanting to work on the cat here at school. I will not guarantee that will be enough time to complete the reconstruction, but it should help. They will need to bring the cat home to do some work at home during those two weeks.

When reconstructing the student's should follow the instructions given to them for reconstruction:

1. Do not procrastinate!!!!!!!!!!!!!!
2. This will take a great amount of time!!!!!!!!!!!!!!
3. Make sure when removing a part from the cat that you bag it and tag it.
4. Remove as much of the tissue and muscle that you can before soaking in bleach.
5. Be real careful when doing the scapula and feet.
6. **WHEN USING BLEACH BE SURE TO USE ADEQUATE VENTILATION. ( THIS PROJECT SHOULD BE DONE OUTSIDE IN THE GARAGE..... BE SURE TO OPEN A WINDOW, AND USE A FAN)**
7. You are not to use you mom/dad's good pans when doing this project. You will not be able to use these pans again.
8. Be sure to examine the grade sheet to see where points are given.
9. Be sure to ask questions if you have any.

10. Make sure you are not absent two days before or the day that it is due. May lose letter grade if you are.

**THIS IS A VERY CHALLENGING PROJECT THAT I FEEL IS VERY WORTHWHILE IN PREPARATION OF THESE STUDENTS FOR COLLEGE.**

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**SIGNATURE OF PARENTS( I have read the cat dissection section)**

**I would consider the month of December to be the most challenging. During this month we will be covering the muscles of the body and we will be putting the finishing touches on our projects. This will take a great amount of time.**

6. Evaluation:

Everything has equal value in the A & P class. Homework, Quizzes, Projects and Tests. The grading scale that is in the handbook will be used.

**No extra credit will be given in this class.**

7. Textbook Required:

Fundamentals of Anatomy & Physiology – Martini and Nath 2009  
Will be given one in class.

8. Test:

You will have a major test approximately every 2-3 weeks. It usually will cover just one chapter. Some chapters may have two test.

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## Honors/Regualr Anatomy

9. Anatomy and Physiology may be taken as an Honors Course. Honors Anatomy students will be required to accomplish extra work. This will be elaborated on in class. For example:

1. extra homework: ch. Review questions
2. additional test questions
3. class participation grade
4. extra project.....due towards end of February

You will be required to make this decision during the first week of class. Your decision will stay with you for the entire year.

10. Communication: If you have a problem please follow the guidelines below when communicating with the teacher.

Students with teacher;

It is highly recommended that students come and see Mr. Hohensinner early in the morning. I am usually here by 7:15.

Parent with teacher:

Calling me at school is preferred: 913-254-4200 or you may call me at home if necessary: 913-682-1994

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### **SIGNATURE OF PARENTS**

( I have read the syllabus above)

If you have any questions about anything above, please call me and I would be happy to talk with you about any item that was discussed in my syllabus.

