

Zoology III: Mammalian Anatomy & Physiology

Sessions 3 & 4: Tuesdays 11:00-12:30

Educator: Jenni Buchanan, jenni@onesparkacademy.com

[Google Classroom](#) code: **jftk3hx**

Description: Learn about the anatomy and physiology of mammals (including humans), from the smallest cells to the largest organ in the body! Study the structure and function of each organ system and learn how they work in concert with each other to keep us alive and healthy. Class will include hands-on Miniscope work and dissections of various organs such as an eye, heart, and/or brain of a cow, sheep, or pig.

Materials Needed:

- ☐ Composition Notebook **with Quadrille (Graph) paper** to serve as the student's **Lab Notebook**.
- ☐ Folder with pockets dedicated to this class only. We will have a lot of materials and handouts students will need to keep track of and refer back to.
- ☐ Blue and/or black pen.
- ☐ Colored pencils/pens for diagrams and labeling (*not required, but these can be helpful and fun*).

Expectations:

* As this is a hands-on lab dissection class, **students will need to be in attendance in order to get credit.** (*If an absence cannot be avoided the student can arrange to do the lab with me during a study session.*)

* Students will keep a **Lab Notebook** that will count for 30% of their grade. This will be for taking notes, drawing diagrams, recording procedures, and making observations. They will need to **have their Lab Notebooks with them at every class.**

* Students can expect **about 30 minutes per week of reading and written homework** to prepare for the upcoming lesson and dissection.

* Each student will have their own dissection kit (*complete with dissection tray, scalpels, tweezers, scissors, pins, and more*) to use each week. **It is each student's responsibility to keep their dissection kits clean and organized and to treat the tools and the animal specimens with care and respect.**

Grading

- 20% Attendance
- 30% Participation, dissection lab, care and respect for tools and specimens
- 30% Lab Notebook
- 20% Weekly homework & preparation for upcoming class

Course Outline*

Over the course of 2 sessions we will cover the major organ systems, with 3-4 dissections as available.

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|--------------------------|----------------------------|
| 1. Skeletal System | 7. Endocrine System |
| 2. Muscular System | 8. Lymphatic/Immune System |
| 3. Cardiovascular System | 9. Urinary System |
| 4. Respiratory System | 10. Reproductive System |
| 5. Nervous System | 11. Integumentary System |
| 6. Digestive system | |

* May change depending on availability of specimens