

Anatomy and Physiology - Syllabus
Course Text - *Essentials of Human Anatomy and Physiology*
2024 - 25 SY
Erie High School

Teacher: Ms. Sarah Chromik

Room Number: G - 219

Email: schromik@eriesd.org

Extra Help: Tuesdays 3:40 - 4:10 PM or by appointment.

I. Course Description:

This course will emphasize the structure and function of the human body systems. The following topics will provide the foundation for the study of the body systems: levels of organization, life functions and anatomical terminology. The main body systems that will be covered are: integument, skeletal, muscular, nervous and special senses, cardiovascular, respiratory and digestive. Diseases related to each body system and healthy choices will be incorporated into the course.

II. Textbook: *Essentials of Human Anatomy and Physiology, 8th ed.* by Elane N. Marieb © 2006

III. Classroom Format, Requirements, and Evaluation:

This course will use a variety of classroom methods; including: lecture/PowerPoint presentations and note-taking, independent work, labs & dissections (virtual and physical), student participation, quizzes and tests, etc. **DISSECTIONS ARE NOT OPTIONAL!**

IV. Grading:

Student grades will be recorded in two ways: Infinite Campus and Schoology. This is an honors class lowest passing grade is a 70%!

NO WORK WILL BE ACCEPTED AFTER UNIT TEST!

(NOTE: If you have special circumstances, I am willing to work with you to stay on track.)

Grading Scale: A: 93 - 100 B: 85 - 92 C: 70 - 84 * F: <69

Your grade is based on your overall percentage of points. Late work will not be accepted after 1 week from the due date; unless there are special circumstances. You get **ONE** test drop.

Classwork: 50%

Tests/Quizzes/Labs: 40%

Bell Ringers (Homework): 10%

V. Student Success:

To be successful in this class, you should come to class every day and be prepared to learn. Assignments, PowerPoints and any additional resources will be routinely updated in Schoology.

- ★ If you are having trouble, do not hesitate to seek help from me. Students are encouraged to use **Schoology** for contact.

VI. Academic Integrity:


Do your own work! Plagiarism will not be tolerated. This includes turning in another person's work and ideas, answer keys or written papers from the internet. While some activities may be assigned to partners and groups, tests and quizzes are **ALWAYS** individual assignments.


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VII. **BR3:**

 <h1>BE ROYAL</h1>		<h2>IN THE CLASSROOM</h2>	
ROYALS ARE:	DIRECT INSTRUCTION:	GROUP WORK:	INDEPENDENT WORK:
RESPECTFUL (polite & courteous)	<ul style="list-style-type: none"> Listen when others speak Practice positive manners, saying please/thank you, waiting your turn, avoiding curse words and slurs, etc. Use professional language during questions or discussions 	<ul style="list-style-type: none"> Use time wisely by staying focused on one task Speak softly to avoid distracting others Practice positive manners, saying please/thank you, waiting your turn, avoiding curse words and slurs, etc. <ul style="list-style-type: none"> Use academic language to discuss your assignment Critique <u>ideas</u>, not people, with helpful suggestions Do your fair share of the work 	<ul style="list-style-type: none"> Use time wisely by staying focused on your task Practice positive manners, saying please/thank you, waiting your turn, avoiding curse words and slurs, etc. Use technology according to teacher's directions Do your own work, and do your <u>best</u> work
RESPONSIBLE (accountable & trustworthy)	<ul style="list-style-type: none"> Arrive before the bell with needed materials & a positive attitude! Keep electronic devices off and away in a pocket or purse during instruction Be honest, trustworthy, and a positive-role model 	<ul style="list-style-type: none"> Be prepared for class and gather materials when directed Use materials <u>only</u> as directed Read and <u>follow</u> teacher direction Tidy your area before leaving 	<ul style="list-style-type: none"> Be prepared for class and gather materials when directed Use materials <u>only</u> as directed Read and <u>follow</u> teacher direction Tidy your area before leaving
RESILIENT (flexible & adaptable)	<ul style="list-style-type: none"> Follow classroom procedures <u>every</u> day Give your entire attention during instruction Support your classmates, even when you disagree 	<ul style="list-style-type: none"> Bring a growth mindset <u>every</u> day Talk through challenges with group members Ask for help and help others! Check work for errors before submission 	<ul style="list-style-type: none"> Bring a growth mindset <u>every</u> day Use classroom resources and ask questions if you get stuck Check work for errors before submission

 <h1>BE ROYAL</h1>		<h2>IN LABORATORIES AND CTE SHOPS</h2>	
ROYALS ARE:			
RESPECTFUL (polite & courteous)	<ul style="list-style-type: none"> Be aware of your surroundings at all times Listen attentively and <u>follow all written and verbal safety instructions</u>, including dress guidelines and wearing personal safety equipment properly Laboratories and shops are work environments – conduct yourself as you would on the job site 		
RESPONSIBLE (accountable & trustworthy)	<ul style="list-style-type: none"> Never horseplay, run, wrestle, etc. in laboratory or shop areas. Use laboratory and shop equipment only with instructor permission <u>AND</u> supervision. Use materials <u>only</u> as directed by your instructor <u>and</u> put materials away <u>properly</u> when finished using them Stay in your assigned work area Report any unsafe conditions or behaviors to your instructor <u>immediately</u> 		
RESILIENT (flexible & adaptable)	<ul style="list-style-type: none"> Focus on your own task and avoid distractions Keep electronic devices turned off and put away Patiently wait your turn to use equipment 		

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Technology Policies

- Chromebooks should only be used to complete classwork.
- You may bring earbuds to use with video assignments and independent work, however you should not be wearing them during notes or labs.
- I will be following the schoolwide cell phone policy!
 - 1st Warning "Put It Away" → 2nd Warning "Put it away, or it will be taken away" → 3rd warning will result in the cell phone being confiscated by an administrator.
 - After 3rd confiscation, a meeting with your parents/guardians will be held.

Materials - I will be providing a folder for you to use to keep your work in. These folders should remain within the classroom, unless needed to make up work. Pen or pencil is a must and your Chromebook, **charged**. Class assignments and activities will be printed or available on Schoology.

Passes - As a school, we are using a digital pass system through IC.

Absences - If you are absent, it is your responsibility to make up for the work missed. Only if your absence is excused will the work be excused, **except for tests**. I also encourage you to contact me if you are going to be out for an extended period of time so we can make arrangements for you to stay on task.

****Check Schoology or Infinite Campus frequently for missing assignments and grade updates.****

Sign your name:

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Semester 1 - Course Outline

I. Organization of the Body

1. Characteristics of Life
2. Cells, Tissues, and Organ Systems
3. Body Cavities and Serous Membranes
4. Maintenance of homeostasis and feedback loops
5. Medical terminology
6. Exploration of health careers

II. Tissues

1. Function (epithelial, muscle, connective, nerve)
2. Location of tissues
3. Epithelial tissue and the evolution of skin color

III. The Skeletal System

1. General functions of the skeletal system
2. The bone matrix
3. Names and location of the bones of the skull
4. Names and location of the bones of the body
5. Male and female differences and changes during aging
6. Types of joints
7. Disorders of the skeletal system

IV. The Muscular System

1. General Functions
2. Skeletal Muscle Cells - Microscopic Structures
3. Muscles - Face, Neck, Arms, Thorax, Abdomen, and Legs
4. Disorders of the muscular system

V. The Nervous System

1. Nerve Cells - Structure, Type, and Function
2. Description of Nerve Impulses - During Action Potential
3. Structures of the brain and spinal cord
4. Disorders of the nervous system
5. Investigation of a preserved sheep brain

I. Sense Organs

- A. The anatomy of the eye
- B. Dissection of a cow eye
- C. The anatomy of the ear
- D. Olfactory and gustatory sense organs

II. Endocrine System

- A. Basic functions of the endocrine system
- B. Hormones and health

III. The Circulatory System

- A. Anatomy of the heart
- B. Cardiac cycle, heart rate, and pulse
- C. Dissection of a sheep heart
- D. Identify major arteries and veins
- E. Measurement of blood pressure
- F. Types of blood cells
- G. Genetics of blood types

IV. The Digestive System

- A. Organs involved in digestion
- B. The alimentary canal and accessory organs
- C. Metabolism and energy balance (basal metabolic rate)
- D. Disorders of the digestive system

V. The Respiratory System

- A. Organs involved in respiration
- B. Breathing mechanism and gas exchange
- C. Disorders of the respiratory system

VI. Urinary System

- A. Anatomy of the kidneys (general and microscopic)
- B. Urine formation and elimination
- C. Disorders of the urinary systems

VII. Reproductive System

- A. Organs of the male reproductive system
- B. Organs of the female reproductive system
- C. Birth control and pregnancy

Semester 2 Topics