Anatomy and Physiology A Syllabus/Schedule

Course Description

Anatomy and Physiology A is the first in a sequential two semester course that focuses on the structure and functions of the human body. Each of the human body systems will be studied with an emphasis on structure and function, developmental changes from infancy to old age, and common problems and diseases. You will participate in several activities including virtual labs and simulations, home science lab investigations, class discussions, and course projects. These activities require that you have met prerequisites of Algebra I, Physical Science, and Biology. Whether you enroll to learn more about how your body works, or you are interested in continuing your education in Health Professions, this course is designed to appeal to a wide variety of mature high school students.

Textbook

Additional Materials Needed
Binder - You should keep a binder with your printed notes, handwritten notes, and other helpful resources and various other tables of information. Create a section for each course unit. (Start by printing this syllabus and placing it in the front of the binder.)

Calculator - You do not need to purchase a graphing calculator, but you should have one that performs basic mathematical computations. There are a few activities throughout the course that may require a calculator.

Lab Materials - Some of the investigations require materials that can be found in most grocery or "big-box" stores.

Course Organization

The first item in each folder is a Unit Checklist. You will find that each unit's activities have been listed here. Your Performance page will give suggested due dates for these items.

Success Strategies

In an online classroom, you have a little more leeway to work at your own pace, or at your own "best times." Whether you're a morning person or a night owl, you can do your school work at the time of day when you work best!
It is crucial, though, that you maintain the discipline necessary to get the work done! You can work ahead, and you can work in the middle of the night, but you must set a pace which gives you enough time to complete the course successfully. Suggested due dates in this course are here to help keep you on track. Your instructor won't be standing in front of your desk glaring and tapping a foot when you get off-task. This job is yours to do.

Study and complete ALL assignments, skipping assignments can leave holes in your knowledge.

**Grading Policy**

**Percentages:** At the end of the course, your grade will be reported as a percentage. The grade is made up approximately of the following categories:

- Assignments, Discussions, Quizzes, etc. - 80%
- Final Exam - 20%

**Checking Your Grades:** You can check your grades anytime by using the "Performance" menu icon. In the gradebook, items are coded according to location and type. All graded items begin with a U# (where the # is the number of that unit).

- Assignments, quizzes, and tests are designated with an "A" (U1A2 - is the second assignment in Unit 1).
- Discussion boards are designated with a "D" (For example: U2D1 – is the first discussion board in Unit 2)
- Any Unit Tests are designated with Test and the Unit Number
- Final Exam: At the end of the course there will be a proctored (supervised) final exam.

**Academic Integrity:** It is expected that you turn in your own work. Your Orientation course discusses academic honesty and references the WVS policy used in conjunction with your local school policy to determine the consequences for offences of plagiarism. It is never okay to copy and paste.

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### Course Schedule

Below is a table of topics covered in this course.

<table>
<thead>
<tr>
<th>Unit</th>
<th>Title</th>
<th>Topics</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Intro to A &amp; P</td>
<td>In Unit 1 you will learn about the basics of human anatomy and physiology, homeostasis, and the basic terms used in anatomy.</td>
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<tr>
<td>2</td>
<td>Cell Structure &amp; Function</td>
<td>In Unit 2 you will learn about cell structure, cell transportation, organelles of the cell, and how cells make energy.</td>
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<tr>
<td>3</td>
<td>Organization &amp; Development</td>
<td>In Unit 3 you will learn about tissue types and functions, human body systems, and the stages of life.</td>
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<tr>
<td>4</td>
<td>The Integumentary System</td>
<td>In Unit 4 you will learn about skin structure and function, diseases of the skin, hair, nails, and the major glands of the skin.</td>
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<tr>
<td>5</td>
<td>The Skeletal System</td>
<td>In Unit 5 you will learn about what bone is, the classifications of bones, the divisions of the skeleton, joints, and conditions of the skeleton.</td>
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<tr>
<td>6</td>
<td>The Muscular System</td>
<td>In Unit 6 you will learn about muscle structure and types, how muscles contract, the major muscles of the human body, and muscle abuse.</td>
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<tr>
<td>7</td>
<td>The Nervous System</td>
<td>In Unit 7 you will learn about the basics of the nervous system, nerve impulses, parts of the brain, the peripheral nervous system, and diseases of the nervous system.</td>
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<tr>
<td>8</td>
<td>Our Special Senses</td>
<td>In Unit 8 you will learn about our special senses, our sense of smell, vision, hearing, and touch.</td>
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<td></td>
<td>Final Exam</td>
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