

ANATOMY AND PHYSIOLOGY

2007-2008

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COURSE DESCRIPTION

This course in Anatomy and Physiology is an elective course that studies the structure and function of the human body. Emphasis is placed on homeostatic mechanisms, the role of chemistry, levels of organization, cytology, histology, organ systems, disease and dysfunction. It is a laboratory course designed for students interested in health careers.

COURSE GOALS

This Anatomy and Physiology course will help the student to achieve the following:

1. Recognize the role of God as Creator, Master Designer, Sustainer and Redeemer.
2. Appreciate the beauty and complexity of the human body and recognize the individual's role in the wise and ethical care of it.
3. Understand the organization and role of organ systems.
4. Understand the role of chemistry in cellular communication, transport and metabolism.
5. Understand the effects the environment has on the human body.
6. Understand the role of heredity and genetics.
7. Apply the scientific method towards the study of human anatomy and physiology.
8. Recognize potential careers and vocation related to the study of anatomy and physiology.

COURSE TEXTBOOKS

Principles of Anatomy and Physiology; John Wiley and Sons, Inc.

COURSE EVALUATIONS

- There will be a test after each chapter
- There will be a cumulative final in January and one in June.
- Homework
- Classwork (bell work, participation, assignments)
- 2 Projects
- Quizzes
- Laboratories

COURSE TOPIC OUTLINE

The following is a general outline of topics to be covered in this class (subject to change if necessary):

Chapters	Topic
1	An Introduction to the Human Body
2	The Chemical Level of Organization
3	The Cellular Level of Organization
4	The Tissue Level of Organization

5	The Integumentary System
6	The Skeletal System: Bone Tissue
7	The Skeletal System: The Axial Skeleton
8	The Skeletal System: The Appendicular Skeleton
9	Joints
10	Muscle Tissue
11	The Muscular System
12	Nervous
13	The Spinal Cord and Spinal Nerves
14	The Brain and Cranial Nerves
15	Sensory, Motor and Integrative Systems
16	The Special Senses
17	The Autonomic Nervous System
18	The Endocrine System
19	The Cardiovascular System: The Blood
20	The Cardiovascular System: The Heart
21	The Cardiovascular System: Blood Vessels and Hemeodynamics
22	The Lymphatic and Immune System and Resistance to Disease
23	The Respiratory
24	The Digestive System
25	Metabolism
26	The Urinary System
27	Fluid, Electrolyte, and Acid-Base Homeostasis

COURSE ASSIGNMENT DUE DATES

After each chapter there will be a 50 minutes test, which will not be accumulative. Only finals are accumulative. The test will be made up of matching, multiple choice, fill-in-the-blank, and essay.

There will be a quiz daily except on the day of a test and the day after the test.

Homework will be due the day after assigned at the beginning of class. Late assignments will only be accepted one day after the day due at half the points.

There will be a project that the learner will present to the class. There will be a more detailed description for the learner to follow about mid-semester.

Class assignments will be due at the class time allotted.

There will be a lab every week at 7:00 am on Friday.

COURSE GRADING SYSTEM

The grades will be earned on a point system. The letter grade will be given in accordance to the points the learner earned, points are approximated:

Chapter test: 100 points (x 27)
Classwork: 25 points per day (x 135)
Quizzes: 10 points (x 135)
Projects: 200 points (x 2)
Finals: 250 points (x 2)
Laboratories 370 points
Total points 8445 (possible)

A = 8445 to 8093

A- = 8092 to 7740

B+ = 7739 to 7387

B = 7386 to 7034

B- = 7033 to 6681

C+ = 6680 to 6328

C = 6327 to 5975

C- = 5974 to 5622

D+ = 5621 to 5269

D = 5268 to 4916

D- = 4915 to 4563

F+ = 4562 to 4210

F = 4209 or less