

**BIOL 2404.WB**  
**Human Anatomy And Physiology**  
**Spring, 2011**

**Start/End Date:** January 18, 2011 – May 12, 2011

**Modality:** Online

**Credits:** 4 sch

**Instructor Information:**

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WH 102C

**Course Description:** In this one-semester course students learn scientific terminology, specific information and concepts about the anatomy and physiology of the 11 body systems. In laboratory exercises students learn mathematical calculations for conversions between the metric and English systems of measurement, the anatomy of muscles, bones, nervous organs, blood vessels and endocrine glands, plus various organs of other systems. Lab fee required.

**Pre-Requisites:** Pass reading on THEA or COMPASS and be eligible for College Algebra by passing math on THEA or COMPASS or by passing the developmental math sequence.

**Scans:** 1, 3, 6, 9

**Course Objectives:**

1. Learner will be able to recognize and use the language and mathematical conversions required for exploration in the scientific and medical fields.
2. Learner will be able to identify the molecules that are the building blocks of the human body.
3. Learner will learn the basic chemistry needed to conceptualize the inner workings of the body's organ systems.
4. Learner will be able to identify the activities of various cellular structures responsible for maintaining life.
5. Learner will be able to identify the structures and functions of the eleven organ systems, as well as how each system interacts with the others.

**Course of Study Applications:** This course is a core course for Emergency Medical Services Professional, Medical Office Technology Specialist: Level III and Radiology.

This course meets the general education requirements for an Associate in Science degree in Exercise and Sports Science and Athletic Training, Associate in Applied Science in Occupational Safety and Health Technology and Associate in Arts in Teaching.

**Required Materials:**

You must purchase the following **required** readings/materials:

**Textbook:** *Essentials of Human Anatomy and Physiology, 9th ed., by Elaine Marieb*

**Lab Manual:** *PhysioEx 8.0 or later, by Stabler*

*CourseCompass Access Code*

**Course Requirements (Lectures, Assignments and Assessments):**

This course includes Tegrity recordings of lecture, PhysioEx simulated labs, Lab structure handouts, quizzes, unit exams and a comprehensive final exam.

**Summary of Weekly Assignments:**

|        | Name                  | Type       | Description                              | Due Date |
|--------|-----------------------|------------|--|----------|
| Week 1 | Introduction          | Discussion | Get to know your fellow learners         | 1/23/11  |
|        | Get Ready for A & P   | Assignment | Learn about learning styles and          | 1/23/11  |
|        | Chapter 1 & 2         |            | review basic math skills,                | 1/23/11  |
|        |                       |            | Submit Post Test 1 & 2                   | 1/23/11  |
|        | Navigation Assignment | Assignment | Learn to navigate the course             | 1/23/11  |
| Week 2 | Chapter 1             | Study      | Basics of A & P                          | 1/30/11  |
|        | Chapter Activities    | Study      | Do chapter activities in CourseCompass   | 1/30/11  |
|        | Chapter 1 Quiz        | Quiz       | Take Quiz over Chapter 1                 | 1/30/11  |
|        | Lab Handout           | Lab        | Anatomical Regions and Terms             | 1/30/11  |
|        | Metrics Handout       | Lab        | Metric System and Conversions            | 1/30/11  |
| Week 3 | Chapter 2             | Study      | Learn chemical structure and properties  | 2/6/11   |
|        | Chapter Activities    | Study      | Do chapter activities in CourseCompass   | 2/6/11   |
|        | Chapter 2 Quiz        | Quiz       | Take Quiz over Chapter 2                 | 2/6/11   |
|        | Chemistry Handout     | Lab        | Learn chemical structure and properties  | 2/6/11   |
| Week 4 | Chapter 3             | Study      | Cell and tissue structure and metabolism | 2/13/11  |
|        | Chapter Activities    | Study      | Do chapter activities in CourseCompass   | 2/13/11  |
|        | Chapter 3 Quiz        | Quiz       | Take Quiz over Chapter 3                 | 2/13/11  |
|        | Cells and Tissues     | Lab        | Learn cell and tissue structure and      | 2/13/11  |
|        |                       |            | characteristics                          | 2/13/11  |
|        | Diffusion             | Lab        | PhysioEx Lab Simulation #1               | 2/13/11  |
|        | Organelles            | Discussion | Participate in Discussion Question 1     | 2/13/11  |

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| Week 5  | Chapter 4                | Study      | Integumentary System  | 2/20/11 |
|         | Chapter Activities       | Study      | Do chapter activities in CourseCompass                            | 2/20/11 |
|         | Chapter 4 Quiz           | Quiz       | Take quiz over Chapter 4  | 2/20/11 |
|         | Integument               | Lab        | Learn structures of integumentary system                          | 2/20/11 |
|         | Unit 1 Exams             | Exam       | Take Unit 1 Lecture and Lab Exams                                 | 2/20/11 |
| Week 6  | Chapter 5                | Study      | Skeletal System   | 2/27/11 |
|         | Chapter Activities       | Study      | Do chapter activities in CourseCompass                            | 2/27/11 |
|         | Chapter 5 Quiz           | Quiz       | Take quiz over Chapter 5  | 2/27/11 |
|         | Axial & Appendicular     | Lab        | Learn structures of skeletal system                               | 2/27/11 |
| Week 7  | Chapter 6                | Study      | Muscular System   | 3/6/11  |
|         | Chapter Activities       | Study      | Do chapter activities in CourseCompass                            | 3/6/11  |
|         | Muscle Contraction       | Lab        | PhysioEx Lab Simulation #2  | 3/6/11  |
|         | Chapter 6 Quiz           | Quiz       | Take quiz over Chapter 6  | 3/6/11  |
|         | Muscles                  | Lab        | Learn structures of muscular system                               | 3/6/11  |
|         | Bones and Muscles        | Discussion | Participate in Discussion Question 2                              | 3/6/11  |
| Week 8  | Chapter 7 and 8          | Study      | Nervous System and Special Senses                                 | 3/13/11 |
|         | Chapter Activities       | Study      | Do chapter activities in CourseCompass                            | 3/13/11 |
|         | Chapter 7 & 8 Quiz       | Quiz       | Take quiz over chapters 7 and 8                                   | 3/13/11 |
|         | Nervous & Special Senses | Lab        | Learn structures of nervous system and special senses             | 3/13/11 |
|         | Unit 2 Exams             | Exam       | Take Unit 2 Lecture and Lab Exams                                 | 3/13/11 |
| Week 9  | Spring Break             | Holiday    | Take a Break or Get Ahead, Your Choice                            |         |
| Week 10 | Chapter 9                | Study      | Endocrine System  | 3/27/11 |
|         | Chapter Activities       | Study      | Do chapter activities in CourseCompass                            | 3/27/11 |
|         | Chapter 9 Quiz           | Quiz       | Take quiz over Chapter 9  | 3/27/11 |
|         | Endocrine System         | Lab        | Learn the components of endocrine system                          | 3/27/11 |
|         | Hormone Activity         | Lab        | PhysioEx Lab Simulation #4  | 3/27/11 |
|         | Homeostatic Imbalances   | Discussion | Participate in Discussion Question 3                              | 3/27/11 |
| Week 11 | Chapter 10 and 11        | Study      | Blood and Cardiovascular System                                   | 4/3/11  |
|         | Chapter Activities       | Study      | Do chapter activities in CourseCompass                            | 4/3/11  |
|         | Chapter 10 and 11 Quiz   | Quiz       | Take quiz over Chapter 10 and 11                                  | 4/3/11  |
|         | Blood & Cardiovascular   | Lab        | Learn components of blood and structures of cardiovascular system | 4/3/11  |
|         | Blood Typing             | Lab        | PhysioEx Lab Simulation #11                                       | 4/3/11  |
|         | Unit 3 Exams             | Exam       | Take Unit 3 Lecture and Lab Exams                                 | 4/3/11  |
| Week 12 | Chapter 12               | Study      | Lymphatic and Immune System                                       | 4/10/11 |
|         | Chapter Activities       | Study      | Do chapter activities in CourseCompass                            | 4/10/11 |
|         | Chapter 12 Quiz          | Quiz       | Take quiz over Chapter 12   | 4/10/11 |
|         | Lymphatic & Immunity     | Lab        | Learn tissues of lymphatic system and                             | 4/10/11 |
|         |                          |            | components of immune system                                       | 4/10/11 |

|         |                               |             |  |                                |
|---------|-------------------------------|-------------|--|--------------------------------|
| Week 13 | Chapter 13                    | Study       | Respiratory System                                   | 4/17/11                        |
|         | Chapter Activities            | Study       | Do chapter activities in CourseCompass               | 4/17/11                        |
|         | Urinary System                | Lab         | Learn structures of urinary system                   | 4/17/11                        |
|         | Chapter 13 Quiz               | Quiz        | Take quiz over Chapter 13                            | 4/17/11                        |
| Week 14 | Chapter 14                    | Study       | Digestive System                                     | 4/24/11                        |
|         | Chapter Activities            | Study       | Do chapter activities in CourseCompass               | 4/24/11                        |
|         | Chapter 14 Quiz               | Quiz        | Take quiz over Chapter 14                            | 4/24/11                        |
|         | Digestive System              | Lab         | Learn structures and chemicals of Digestive System   | 4/24/11                        |
|         | Chemical Digestion            | Lab         | PhysioEx Lab Simulation #8                           | 4/24/11                        |
|         | Unit 4 Exams                  | Exam        | Take Unit 4 Lecture and Lab Exams                    | 4/24/11                        |
| Week 15 | Chapter 15 & 16               | Study       | Urinary System and Reproductive System               | 5/1/11                         |
|         | Chapter Activities            | Study       | Do chapter activities in CourseCompass               | 5/1/11                         |
|         | Chapter 15 & 16 Quiz          | Quiz        | Take quiz over Chapter 15 and 16                     | 5/1/11                         |
|         | Urinary & Reproductive System | Lab         | Learn structures of Urinary and Reproductive Systems | 5/1/11                         |
|         | Unit 5 Exams                  | Exam        | Take Unit 5 Lecture and Lab Exams                    | 5/1/11                         |
|         | Week 16                       | Reflections | Discussion   | Participate in Unit Discussion |
|         | Course Evaluation             | Bonus       | Evaluate course                                      | 5/8/11                         |
|         | Final Exam                    | Exam        | Covers all course lecture material                   | 5/10/11                        |

### Grading Policy:

#### Lecture:

|                       |         |
|-----------------------|---------|
| Navigation Assignment | 10 pts  |
| Chapter Quizzes       | 160 pts |
| Unit Exams            | 500 pts |
| Discussion            | 100 pts |
| Lecture Final         | 200 pts |

#### Laboratory:

|                      |         |
|----------------------|---------|
| PhysioEx Assignments | 250 pts |
| Lab Exams            | 250 pts |

**Total:** 1470 pts

**Special Needs:** Odessa College complies with Section 504 of the Vocational Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990. If you have any special needs or issues pertaining to your access to and participation in this or any other class at Odessa College, please feel free to contact me to discuss your concerns. You may also call the Office of Disability services at 432-335-6861 to request assistance and accommodations.

**Learning Resource Center (Library):** The Library, known as the [Learning Resources Center](#), provides research assistance via the [LRC's catalog \(print books, videos, e-books\)](#) and [databases \(journal and magazine articles\)](#). [Research guides](#) covering specific subject areas, [tutorials](#), and the "[Ask a Librarian](#) " service provide additional help.

**Student E-Mail:** Please access your Odessa College student email by following the link to either set up or update your account: <https://www.odessa.edu/gmail/>. **All assignments or correspondence will be submitted using your Odessa College email.**

**Technical Support:** For Blackboard username and password help and for help accessing your online course availability or student email account contact the Student Success Center at 432-335-6878 or online at [https://www.odessa.edu/dept/ssc/helpdesk\\_form.htm](https://www.odessa.edu/dept/ssc/helpdesk_form.htm)

**Important School Policies:** For information regarding student support services, academic dishonesty, disciplinary actions, special accommodations, or student's and instructors' right to academic freedom can be found in the [Odessa College Student Handbook](#).