

Summer Assignment 2018

Anatomy and Physiology Advanced 541

Mrs. Cheryl Ducharme

Welcome to Anatomy and Physiology Advanced (541). I am both honored and excited to be your teacher for the next school year.

The textbook we will be using is *Human Anatomy and Physiology* (Eighth edition) by Elaine N. Marieb, R.N., Ph.D. and Katja Hoehn, M.D., Ph.D. This text is used by many colleges, including Georgetown University, Holy Cross College, and Springfield College to prepare undergraduate students for careers in medicine, physical therapy, and athletic training. During the second half of the year, we will be using *The Pictorial Anatomy of the Cat* (Revised edition) by Stephen G. Gilbert to guide us through our laboratory dissection. You must have both books on the first day of class. Supplemental materials and additional lab activities will be provided throughout the year.

In order to get started on the volume of material I hope to cover (I am an optimist), I have prepared the following summer assignment. A portion of this work involves reading, and while I encourage it, you are not required to outline chapters in this course. Any written work will be discussed and collected on the **first day of class**, and will be graded.

1. Please read the section To the Student: How to Use This Book on pgs. vii-xiii in the text. This is an excellent way to acquaint yourself with how your book is laid out.
2. Please read and review Chapter 2- Chemistry Comes Alive- Part 1: Basic Chemistry.

Complete the following Review Questions on page 59.

Multiple Choice #'s 1-17 and Short Answer #'s 23-30

3. Please read and review Chapter 3- Cells: The Living Units

Study Figure 3.3 The Fluid Mosaic Model of the Cell Membrane and Figure 3.5 Cell junctions. We will discuss in class on the first day.

Complete the following Review Questions on pages 111-112.

Multiple Choice #'s 1-19 Short Answer #'s 20-27 and Critical Thinking #'s 5, 6 and 7

4. Please read Chapter 1- The Human Body and Orientation

This will be the first chapter we cover extensively in class.

As an introduction to this chapter, you will prepare the following to share with the class:

- A. Construct a table that lists the 11 systems of the body, name two organs of each system (if appropriate), and describe the overall or major function of each system.

During our first class meeting, we will review the cell, and begin Chapter 1. Toward the end of the second week, we will begin Part 2 of Chapter 2 which covers Biological Molecules. You will receive my course syllabus on the first day which will outline the remaining topics for the school year.

Good Luck with your summer assignment !! If you have any questions, you can reach me via the school email. My address is: cducharme@nda-worc.org.

Have a safe and happy summer vacation !!!!!!!

Mrs. Ducharme