



## COURSE OUTLINE: BIOL2105 - HUMAN ANATOMY & PHYS

Prepared: Leslie Dafoe

Approved: Bob Chapman, Chair, Health

| <b>Course Code: Title</b>                            | BIOL2105: HUMAN ANATOMY AND PHYSIOLOGY  |                  |  |  |  |  |
|--|---|------------------|--|--|--|--|
| <b>Program Number: Name</b>                          | 3400: COLLAB BSCN   |                  |  |  |  |  |
| <b>Department:</b>                                   | BSCN - NURSING  |                  |  |  |  |  |
| <b>Semesters/Terms:</b>                              | 19F, 20W  |                  |  |  |  |  |
| <b>Course Description:</b>                           | This course describes human anatomy and physiology at the cellular, tissue, organ, and system levels of organization. Aspects of this course will concentrate on the clinical application of anatomy and physiology. Credit cannot be retained for both BIOL2105 and any of BIOL1700, 2107, 2701, PHED1506, 1507, 2106. (class 3, lab 3) cr 6   |                  |  |  |  |  |
| <b>Total Credits:</b>                                | 6   |                  |  |  |  |  |
| <b>Hours/Week:</b>                                   | 6   |                  |  |  |  |  |
| <b>Total Hours:</b>                                  | 144   |                  |  |  |  |  |
| <b>Prerequisites:</b>                                | There are no pre-requisites for this course.  |                  |  |  |  |  |
| <b>Corequisites:</b>                                 | There are no co-requisites for this course.   |                  |  |  |  |  |
| <b>This course is a pre-requisite for:</b>           | BIO132, BIOL2036, BSCN2006, BSCN2084, CHMI2220, NURS2816  |                  |  |  |  |  |
| <b>General Education Themes:</b>                     | Science and Technology  |                  |  |  |  |  |
| <b>Course Evaluation:</b>                            | Passing Grade: 60%, C   |                  |  |  |  |  |
| <b>Books and Required Resources:</b>                 | <p>Principles of Anatomy &amp; Physiology (w/WPNGC &amp; Lab Manual) by Tortora<br/>         Publisher: John Wiley &amp; Sons, Inc. Edition: 15th<br/>         ISBN: 9781119535836<br/>         Required text</p> <p>Laboratory Manual for Anatomy &amp; Physiology by Connie Allen and Valerie Harper<br/>         Publisher: John Wiley &amp; Sons, Inc. Edition: 6th<br/>         ISBN: 978119304142<br/>         Required text</p> <p>A Photographic Atlas for the Anatomy and Physiology Laboratory by Vandergraaf<br/>         Publisher: Morton Publishing Edition: 8<br/>         ISBN: 9781617312779<br/>         or 9781617314261</p> <p>Additional laboratory materials<br/>         Dissection kit (1), Clean, white, knee-length lab coat (1), Lab Safety Glasses (1 pr)</p> |                  |  |  |  |  |
| <b>Course Outcomes and Learning Objectives:</b>      | <table border="1"> <thead> <tr> <th>Course Outcome 1</th> <th>Learning Objectives for Course Outcome 1</th> </tr> </thead> <tbody> <tr> <td>1. Utilize the terminology of anatomy and physiology</td> <td></td> </tr> </tbody> </table>   | Course Outcome 1 | Learning Objectives for Course Outcome 1 | 1. Utilize the terminology of anatomy and physiology |  |  |
| Course Outcome 1                                     | Learning Objectives for Course Outcome 1  |                  |  |  |  |  |
| 1. Utilize the terminology of anatomy and physiology |   |                  |  |  |  |  |



2. Recognize the interrelationships of cells, tissues, organs and body systems.

3. Differentiate the basic chemical concepts and principles as they are related to the anatomy and physiology of the human body.

4. Describe the location, structure and function of the organs of the major organ/body systems of the human body.

5. Recognize the major tissue types and location.

6. Recognize the interrelationships of body organ systems.

7. Recognize the connection between homeostasis of the body and health.

8. Demonstrate recognition of the importance of knowing the anatomy and physiology of the healthy adult human body.

1. Be able to label, using the correct anatomical terminology, the parts of the human body, and describe their functions.

2. Be able to explain how all cells, tissues, organs and body systems contribute to homeostasis.

3. Be able to explain how chemistry is essential to the functioning of cells, tissues, organs, and how chemical changes can either support or challenge homeostasis.

4. Be able to discuss the importance of each of the body/organ systems in maintenance of homeostasis by detailing their structure and function(s).

5. Be able to describe how particular tissue types work and how their specialized structures contribute to their functions for all of the major organ/body systems.

6. Be able to describe how various organ systems contribute to homeostasis of the entire body as well as towards other organ systems. Detail the interdependence of organ systems with one another and explain how this helps to maintain homeostasis.

7. Be able to explain how maintenance of homeostasis is essential to maintaining health, and how/why losses of homeostasis can alter the health status of a person.

8. Be able to explain why a thorough understanding of a healthy adult human body is essential to being able to evaluate the health status of a client.

**Evaluation Process and Grading System:**

| Evaluation Type         | Evaluation Weight |
|-------------------------|-------------------|
| Final Theory Exam       | 25%               |
| Laboratory Exams X 2    | 20%               |
| Laboratory Quizzes X 20 | 10%               |
| Laboratory Technique    | 5%                |
| Lecture Tests X 4       | 40%               |

**Date:**

July 29, 2019

**Addendum:**

Please refer to the course outline addendum on the Learning Management System for further information.

