COURSE OUTLINE: BIOL1050 - ANTMY & PHYS

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Course Code: Title	BIOL1050: HUMAN ANATOMY AND PHYSIOLOGY
Program Number: Name	3401: HONOURS BSCN
Department:	BSCN - NURSING
Academic Year:	2024-2025
Course Description:	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 and the interrelationships of body organ systems. At the end of this course, students will be able to explain why a thorough understanding of a healthy adult human body is essential to evaluating the health status of a client. Students will also be able to recognize the connection between homeostasis of the body and health. The course is delivered each week as 3 hours of lecture, 3 hours of laboratory activity and is worth 4 credits.
Total Credits:	4
Hours/Week:	6
Total Hours:	72
Prerequisites:	There are no pre-requisites for this course.
Corequisites:	There are no co-requisites for this course.
This course is a pre-requisite for:	BIOL1150
Essential Employability Skills (EES) addressed in this course:	EES 1 Communicate clearly, concisely and correctly in the written, spoken, and visual form that fulfills the purpose and meets the needs of the audience. EES 2 Respond to written, spoken, or visual messages in a manner that ensures effective communication. EES 4 Apply a systematic approach to solve problems. EES 5 Use a variety of thinking skills to anticipate and solve problems. EES 6 Locate, select, organize, and document information using appropriate technology and information systems. EES 7 Analyze, evaluate, and apply relevant information from a variety of sources. EES 8 Show respect for the diverse opinions, values, belief systems, and contributions of others. EES 9 Interact with others in groups or teams that contribute to effective working relationships and the achievement of goals. EES 10 Manage the use of time and other resources to complete projects. EES 11 Take responsibility for ones own actions, decisions, and consequences.

General Education Themes:	Science and Technology
Course Evaluation:	Passing Grade: 65%, A minimum program GPA of 2.0 or higher where program specific standards exist is required for graduation.
Books and Required Resources:	1 White-knee length lab coat, 1 dissection kit, 1 box of nitrile gloves, 1 pair of safety glasses Principles of Anatomy & Physiology, LLF 16e (w/WileyPlusNext Gen Card Access & Lab Manual LLF 7e (PKG)) by Tortora Publisher: John Wiley & Sons Canada Edition: 16th ISBN: 9781119829799 Anatomy and Physiology eText by OpenStax Edition: 2nd ISBN: 978-1-711494-05-0 Note: this is an alternate free downloadable Text

Course Outcomes and Learning Objectives:

Course Outcome 1	**Learning Objectives for Course Outcome 1**
1. Use the appropriate terminology related to the organization, structure and function of the human body.	1.1 Define anatomy and physiology. 1.2 Utilize anatomical and directional terminology to describe the location of body parts, organs and regions.
Course Outcome 2	**Learning Objectives for Course Outcome 2**
2. Recognize the interrelationships between cells, tissues, organs and body systems.	2.1 Describe the hierarchical organization of the human body, including levels from atoms and molecules to organ systems. 2.2. Be able to explain how cells, tissues, organs and body systems contribute to homeostasis. 2.3. 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. 2.4. 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. 2.5. Recognize the major tissue types and locations for epithelial, connective, muscle and nervous tissues.
Course Outcome 3	**Learning Objectives for Course Outcome 3**
3. Describe the location, structure and function of the organs of the integumentary system of the human body.	3.1. Be able to describe how particular tissues contribute to the structure and function of the integumentary system. 3.2. Be able to label, using the correct anatomical terminology, the parts of the human body, and describe their functions for the integumentary system. 3.3. Be able to describe how the integumentary system contributes to homeostasis of the entire body as well as towards other organ systems.
Course Outcome 4	**Learning Objectives for Course Outcome 4**
4. Describe the location, structure and function of the	4.1. Be able to describe how particular tissues contribute to the structure and function of the skeletal system.

organs of the skeletal system of the human body.	4.2. Be able to label, using the correct anatomical terminology, the parts of the human body, and describe their functions for the skeletal system. 4.3. Be able to describe how the skeletal system contributes to homeostasis of the entire body as well as towards other organ systems.
Course Outcome 5	**Learning Objectives for Course Outcome 5**
5. Describe the location, structure and function of the organs of the muscular system of the human body.	5.1. Be able to describe how particular tissues contribute to the structure and function of the muscular system 5.2. Be able to label, using the correct anatomical terminology, the parts of the human body, and describe their functions for the muscular system. 5.3. Be able to describe how the muscular system contributes to homeostasis of the entire body as well as towards other organ systems.
Course Outcome 6	**Learning Objectives for Course Outcome 6**
6. Describe the location, structure and function of the organs of the nervous system of the human body.	6.1. Be able to describe how particular tissues contribute to the structure and function of the nervous system. 6.2. Be able to label, using the correct anatomical terminology, the parts of the human body, and describe their functions for the nervous system. 6.3. Be able to describe how the nervous system contributes to homeostasis of the entire body as well as towards other organ systems.

Evaluation Process and Grading System:

Evaluation Type	Evaluation Weight
Final Lab Test	15%
Final Theory Exam	30%
Lab Participation and Technique	5%
Lab Quizzes	15%
Presentation	5%
Theory Test 1	15%
Theory Test 2	15%

Date: August 15, 2024

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