BIOL 218 - Human Anatomy Course Outline

Approval Date: 03/12/2020
Effective Date: 08/16/2021

SECTION A

Unique ID Number	CCC000204020
Discipline(s)	Biological Sciences
Division	Science and Engineering
Subject Area	Biology
Subject Code	BIOL
Course Number	218
Course Title	Human Anatomy
TOP Code/SAM Code	0410.00 - Anatomy and Physiology / E - Non-Occupational
Rationale for adding this course to the curriculum	Prerequisite changes due to AB705 and textbook updates
Units	5
Cross List	*N/A*
Typical Course Weeks	18

Total Instructional Hours

	Contact Hours
Lecture	54.00
Lab	108.00
Activity	0.00
Work Experience	0.00
Outside of Class Hours	108.00

Total Contact Hours	162
Total Student Hours	270
Open Entry/Open Exit	No
Maximum Enrollment	
Grading Option	Letter Grade or P/NP
Distance Education Mode of Instruction	On-Campus

SECTION B

General Education Information:

SECTION C

Course Description

Repeatability	May be repeated 0 times
Catalog Description	An introduction to the principles of the gross and microscopic anatomy of the human body. Dissection of a human cadaver and a cat are supplemented by

anatomical models, charts, and microscopic observation of human tissues. Primarily intended for students pursuing an Associates Degree in Nursing (ADN), A.S. Degree in Respiratory Care, or B.A./B.S. Degree in a Health Sciences field.

Schedule Description

SECTION D

Condition on Enrollment

1a. Prerequisite(s)

- BIOL 105 or
- BIOL 120

1b. Corequisite(s): *None*

1c. Recommended: *None*

1d. Limitation on Enrollment: *None*

SECTION E

Course Outline Information

1. Student Learning Outcomes:

A. Identify macroscopic structures of human anatomy on anatomical models and preserved specimens.
B. Identify microscopic structures and tissues using prepared histological slides.

2. Course Objectives: Upon completion of this course, the student will be able to:

A. Identify and describe structures of human anatomy at several levels of organization, including the subcellular, cellular, tissue, organ, and organ system levels.
B. Categorize anatomical structures according to their level of organization and in relation to larger physiological systems.
C. Identify the major tissue types and subtypes in prepared microscope slides, and identify specific locations in the body where each tissue is found.
D. Locate gross anatomical structures on a model of the human body and on a human subject, where appropriate.
E. Perform dissections and identify anatomical structures on preserved specimens including the human cadaver.
F. Relate anatomical structures to function by describing normal functions for each structure and examples of anatomical changes in that occur in disease, injury or aging.
G.

3. Course Content

A. Introduction: Levels of Organization
B. Cell Structure and Function
C. Histology of Human Tissues
D. Integumentary System
E. Skeletal System
F. Muscular System
G. Cardiovascular System
H. Lymphatic Systems
I. Nervous System
J. Special Senses
K. Endocrine System
L. Respiratory System
M. Digestive System

N. Urinary System
O. Reproductive Systems

Laboratory Activities:
1. Identification of microscopic structures and tissues.
2. Identification of bones and bone features.
3. Identification of skeletal musculature and muscle features.
4. Identification of internal organs and gross anatomical structures of each organ system on models, preserved specimens and human cadavers.
5. Dissection of organs or observation of dissected organs.
6. Dissection of organisms or observation of dissected organisms.
7. Identification of structures on models.

4. Methods of Instruction:

Activity:
Lab:
Lecture:
Observation and Demonstration:

5. Methods of Evaluation: Describe the general types of evaluations for this course and provide at least two, specific examples.

Typical classroom assessment techniques

Exams/Tests -- Lecture Exams: 3 to 4 during the semester plus a comprehensive final exam. Lab Practical Exams: 4 during the semester, plus a comprehensive final exam. For example: Lecture Exam 1 will cover levels of anatomical organization; body regions and body cavities; cell structure; tissue classification, structure, and function; the integumentary system; and the skeletal system. Lab Exam 2 will cover muscle tissue and the muscular system, including identification of muscles on anatomical models, the preserved cat, and the human cadaver.
Quizzes -- Occasional in-class quizzes.
Class Participation -- Participation and performance in dissection exercises. Laboratory notebook containing labeled drawings of histological slides observed under the microscope.
Lab Activities -- Study of anatomical models and histological slides. Dissection of preserved specimens, eg. cats and human cadavers.

Letter Grade or P/NP

6. Assignments: State the general types of assignments for this course under the following categories and provide at least two specific examples for each section.

A. Reading Assignments
Reading assignments from the textbook and laboratory manual.

For example:

Read chapter 3 of the textbook in preparation for a lab activity involving identification of cell structures.

Read exercise 9 of the lab manual in preparation for dissection of muscles of the cat.

B. Writing Assignments
Drawing and labeling of histological structures and dissection of anatomical structures in preserved specimens.

For example:

Draw and label diagrams of histological specimens observed under the microscope and compile these drawings in a laboratory notebook.

Dissect and label two muscles in the human cadaver and work in a group to complete a dissection of six to ten muscles in an assigned body region.

C. Other Assignments
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7. Required Materials

A. EXAMPLES of typical college-level textbooks (for degree-applicable courses) or other print materials.

Book #1:	
Author:	Tortora, G.J. & Nielsen, M.T.
Title:	Principles of Human Anatomy
Publisher:	Wiley
Date of Publication:	2017
Edition:	14th
Book #2:	
Author:	Leboffe, M
Title:	A Photographic Atlas of Histology
Publisher:	Morton Publishing
Date of Publication:	2013
Edition:	2nd
Manual #1:	
Author:	Morton, D., Crawley, J.
Title:	Van De Graaff's Photographic Atlas for the Anatomy & Physiology Laboratory, 9e
Publisher:	Morton Publishing
Date of Publication:	02-01-2019

B. Other required materials/supplies.