



LEARNING FOR LIFELONG GROWTH

Fortis College, Cincinnati Ohio

COURSE CODE: Bio111

Introduction to Anatomy and Physiology

Instructor:

Kristy A. Brandabur

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Office Hours:

By appointment

Start Date:

Nov.28 , 2011

Completion Date:

March 25, 2012

Days and Times:

Mon. /Wed. 4-7

Class Location:

Room 204

Prerequisites:

None

Course Contact Hours: 60

Course Length: 6 Weeks

Quarter Credit Hours: 4

Lecture: 30

Laboratory: 30

Externship: None

Americans with Disabilities Act Guidelines:

Requests for accommodations should be submitted to the campus president. Faculty are not authorized to grant accommodations.

Course Description

This course is a basic introduction to the structure (anatomy) and function (physiology) of the human body. Correct medical terminology is emphasized.

Course Objectives

Upon successful completion of this course, the student should be able to:

Cognitive:

- Proficiency in the language of human anatomy.

Psychomotor:

- Knows and demonstrates a sequence of steps in the structure and function phenomenon from cellular through organ system.
- Proficiency in the identification of gross human anatomical structures.
- Shows desire to learn a new process using concept maps to understand human physiology.
- Development of skills in regards to clinical anatomy and physiology.

Affective:

- A basic understanding of the physiology for each of the eleven body systems by actively participating in the learning process.
- The student can put together different values information, and ideas and accommodate them within his/her own learning process by comparing, relating and elaborating on what has been learned.

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Required Student Resources

Textbook

Title: *Structure & Function of the Body*
Edition: 13th Copyright: 2008
Author: Gary A. Thibodeau, PhD
Publisher: Missouri, Mosby Elsevier
ISBN:

Equipment/Technology/Software

Students should have computer access to the Campus Portal and Engrade.

Material

The ADAM anatomy program is available in the LRC. Quia.com provided by instructor.

COURSE OUTLINE

Below is the course schedule which identifies lecture topics, assignments and other course activities and the homework required for completion each week.

Lecture Topic	In-Class Activity/Lab Assignment	Homework/Out of Class
Week One Objectives: Chapter 1 and 4 Understand the basic concept of anatomy vs. physiology		
Introduction to Anatomy, Organ Systems of the Body	Concept mapping of the eleven body systems	Read Chapters 1 and 4. Study Guide pgs. 2-3 Study Guide pgs. 37, 40-41. Quia.com 40 minutes
Lecture Topic	In-Class Activity/Lab Assignment	Homework/Out of Class
Week Two Objectives: Chapter 2 Define and understand levels of chemical organization, chemical bonding, inorganic and organic chemistry.		
Chemistry of Life	Test over Chapters 1 and 4. Draw and label an atom	Read Chapter 2. Study Guide pgs. 14-16. Quia.com 40 minutes
Lecture Topic	In-Class Activity/Lab Assignment	Homework/Out of Class
Week Three Objectives: Chapter 3 Identify and discuss cells, cell membranes, cell reproduction, heredity and tissue.		
Cells & Tissues	Test over Chapter 2 Diagrams. Map cell structure.	Read Chapter 3. Study Guide pgs. 22-24. Quia.com 40 minutes
Lecture Topic	In-Class Activity/Lab Assignment	Homework/Out of Class
Week Four Objectives: Chapter 5 Classify and compare the structure and function of the skin.		



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Integumentary System	Test over Chapter 3 Diagrams	Read Chapter 5. Study Guide pgs. 44-45. Quia.com 40 minutes
Lecture Topic	In-Class Activity/Lab Assignment	Homework/Out of Class
Week Five Objectives: Chapter 6 Apply general understanding of the skeletal system both anatomically and physiologically.		
Skeletal System	Test over Chapter 5 Diagrams. Identification of real bones and their structure.	Read Chapter 6. Study Guide pgs. 54-57. Quia.com 40 minutes
Lecture Topic	In-Class Activity/Lab Assignment	Homework/Out of Class
Week Six Objectives: Chapter 7 Identify the structure, function and location of major muscles groups.		
Muscular System	Test over Chapter 6 Diagrams. Kinesiology Lab	Read Chapter 7. Study Guide pgs.70-73. Quia.com 40 minutes
Lecture Topic	In-Class Activity/Lab Assignment	Homework/Out of Class
Week Seven Objectives: Chapter 8 Understand the organs and divisions of the nervous system, and the functions they carry out.		
Nervous System	Test over Chapter 7 Rt/Lt Brain experiment. Brain Teasers. Story of Cerebellum	Read Chapters 8. Study Guide pgs.80, 82-83, 85. Quia.com 40 minutes
Lecture Topic	In-Class Activity/Lab Assignment	Homework/Out of Class
Week Eight Objectives: Chapter 9 & 10 Classify sense organs and how stimuli convert to sensation. Hormones, glands and their actions.		
Senses & Endocrine System	Test over Chapters 8 Diagrams	Read Chapter 9 &10. Study Guide pgs. 105-106. Pgs. 110-114. Quia.com 40 minutes
Lecture Topic	In-Class Activity/Lab Assignment	Homework/Out of Class



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Week Nine Objectives: Chapter 11 & 12

Describe the characteristics of blood, the anatomy of the heart and affect on blood pressure.

Blood & Circulatory System	Test over Chapter 9-10 Flow chart of blood flow with student participation.	Read Chapters 11-12. Study Guide pgs. 125, 128-129. Study Guide pgs. 134-137. Quia.com 40 minutes
Lecture Topic	In-Class Activity/Lab Assignment	Homework/Out of Class

Week Ten Objectives: Chapter 13

Describe the function of the lymphatic and immune systems. Immune molecules and cells.

Lymphatic System and Immunity	Test over Chapters 11-12	Read Chapter 13. Study Guide pgs. 159-160. Quia.com 40 minutes
Lecture Topic	In-Class Activity/Lab Assignment	Homework/Out of Class

Week Eleven Objectives: Chapter 14

Identify the function and organs of the respiratory system. Volumes of air distribution, and air regulation.

Respiratory System	Test over Chapter 13 Balloon experiment	Read Chapter 14. Study Guide pgs. 164-167. Quia.com 40 minutes
Lecture Topic	In-Class Activity/Lab Assignment	Homework/Out of Class

Week Twelve Objectives: Chapter 15

Identify the organs and accessory organs of the digestive system and their function.

Digestive System	Test over Chapter 14 Diagram the Alimentary Canal Chemical vs Mechanical Digestion	Read Chapters 15, 17. Study Guide pgs. 188-189. Quia.com 40 minutes
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Week Thirteen Objectives: Chapter 17

Explain the structure and function of the urinary system and how the kidneys maintain homeostasis.

Urinary System	Test over Chapter 15	Study Guide pgs. 213-214. Quia.com 40 minutes
Lecture Topic	In-Class Activity/Lab Assignment	Homework/Out of Class

Week Fourteen Objectives: Chapter 19 & 20

Identify the structure and function of the reproductive systems and how they contribute to the production of offspring. Fetal development.

Reproductive System & Human Development	Test over Chapter 17 Map Fetal Development	Read Chapter 20-21. Study Guide pgs. 240,243. Study Guide pgs. 265-
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	Review for Final Exam	266.
Lecture Topic	In-Class Activity/Lab Assignment	Homework/Out of Class
Week Fifteen Objectives: Final Exam Week		
Tie up any loose ends.		
Review for Final Exam	Final Exam	Turn in any outstanding assignments. Concept Maps for all systems due.

Grade Point Value

Grade	Percentage	Quality Points
A	95 to 100	4.0
A-	90 to 94	3.7
B+	87 to 89	3.3
B	83 to 86	3.0
B-	80 to 82	2.7
C+	78 to 79	2.3
C	73 to 77	2.0
C-	70 to 72	1.7
D+	67 to 69	1.3
D	60 to 66	1.0
F	59 or below	0.0

Methods of Evaluation

Participation/Attendance	5%
Homework	5%
Quizzes	10%
Tests	<u>80%</u>
Total	100%

Homework/Out of Class Time Summary

Reading: 1-2 Hours per Week
 Quia: 40 Minutes per Week
 Test: For every test, anticipate two hours of preparation time
 Homework Assignments: 1-2 Hours per Week

Teaching Strategies

Lecture/Discussion/Q & A's
 Group projects
 Written assignments
 Demonstrations/Presentations
 Tests and quizzes.

Methods of Delivery

Face to Face

Classroom Policy

Our goal is to build a respectful learning and work environment that allows for positive communication and teamwork. To promote this all students must abide by academic policies related to attendance, behavior and professional conduct as published in the current institutional catalog.

The course syllabus is a general plan for the course; deviations may be necessary and will be announced.