



COURSE NUMBER AND TITLE

NR.110.204 Anatomy with Lab

CREDITS

4 credits

PRE- AND COREQUISITES

None

COURSE DESCRIPTION

This course will introduce components and structures of the human body at the level of gross and microscopic anatomy. Students will learn organ localization in the body and structural features comprising the different body systems. The body systems covered will include integumentary system, digestive system, cardiovascular system, respiratory system, among others. Upon completion of the course, students will have an understanding of normal healthy anatomy that will prepare them for professional health programs. This course includes a virtual laboratory component designed to complement lecture topics.

OBJECTIVES

The course objectives are organized in line with the program outcomes. At the end of the course, the student will be able to:

1. Define the body orientation terms, including planes of section, directional terms, body regions, pleura and pericardium and organ systems.
2. Identify human body systems and major organs located in each system.
3. Describe the general anatomical structures and their locations associated with each body system.
4. Recognize the various layers and normal histology of the integumentary system.
5. List key components of the skeletal and muscular systems.
6. Describe the anatomical features of the cardiovascular and respiratory systems.
7. Detail the important anatomy of the brain and head.
8. Identify the gross anatomical structures of the digestive, urinary, and reproductive systems.

REQUIRED TEXTBOOKS AND OTHER COURSE MATERIALS

Saladin, K. S. (2017). *Anatomy & Physiology: The unity of form and function (8th ed.)*. New York, NY: McGraw-Hill Higher Education.

Broyles, R.B. (2012). *Workbook to accompany APR 3.0*. New York, NY: McGraw-Hill Higher Education.

Access to McGraw-Hill Connect Plus with LearnSmart/LearnSmart Labs: Students must purchase access code to Connect Plus in order to access the assessment items and other learning materials for this course. Please do not purchase from any 3rd party vendor before reviewing the information presented in the Blackboard course site.

Access to Anatomy & Physiology Revealed 3.2 (APR): This program will be used mainly for the lab portion of the course. Access to APR is included in McGraw-Hill Connect Plus described above. You do not need to purchase a separate access card for this program.

Access to a reliable computer and internet connection: It is recommended that students using Windows- based computers should have the Windows 7 or newer operating system, and that Mac users have OS 10.6 or later. We also recommend that you use the most updated version of Google Chrome as your web browser for this course. Other operating systems and web browsers may not be fully supported by the Blackboard and Late Nite Labs software. Please see the Blackboard course site and the Late Nite Labs website for detailed system requirements.

SUMMARY OF LEARNING ASSESSMENTS/ASSIGNMENTS

LEARNING ASSESSMENT/ ASSIGNMENT	COURSE OBJECTIVES ADDRESSED	WEIGHT TOWARD FINAL COURSE GRADE
Module Graded Quizzes, 10 quizzes in total (50pts each)	1, 2, 3, 4, 5, 6, 7, 8	15%
Module Post-Lab Quizzes, 10 quizzes in total (50pts each)	1, 2, 3, 4, 5, 6, 7, 8	15%
Lab Worksheets, 10 labs in total (50pts each)	1, 2, 3, 4, 5, 6, 7, 8	15%
Discussion Board, 5 posts in total (10pts each)	1, 2, 3, 4, 5, 6, 7, 8	15%
Exams, 3 in total (100pts each)	1, 2, 3, 4, 5, 6, 7, 8	40%

LEARNING ASSESSMENTS/ASSIGNMENTS

Graded Module Quizzes

These are timed quizzes that are designed to test your mastery of the material covered

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in each module and keep you on track in your reading. The quizzes are open book and open notes. One attempt is allowed for each quiz. There are 10 graded quizzes in total in this course.

Lab Sessions

Weekly lab sessions will be done mainly via Anatomy and Physiology Revealed 3.0. You are required to complete the lab procedures, submit lab worksheet and post-lab quiz via Blackboard for each module, from Module 1 to Module 10. An average of 60% must be achieved in the lab component of the course in order to for you to pass the course.

Discussion Boards

Weekly discussions can be accessed from “Discussion Board” link on the left-side menu of the course site, or from within each module. There are 5 discussion board assignments for this course. Additionally, there is an optional discussion board for lab sessions.

Exams

There are three exams consisting of multiple choice and short answer questions. They are open book, open notes and timed. Only one attempt is allowed for each exam. There are no makeup exams.

Optional Learning Activities

Throughout the course, you will find Knowledge Check activities after each recorded lecture and Practice quizzes under the section in each module. In addition, SmartBook readings are also available if you prefer to read the textbook online. The Knowledge Check, Practice quizzes and SmartBook reading assignments provide self-assessment of the information presented in the lectures and the textbook and are not graded or counted towards your final course grade.

ACADEMIC POLICIES

For a full list of academic policies, please see the current academic catalog and handbook.

COURSE POLICIES

All course assignments must be turned in by the specified due date and time. Once the due date and time have passed, 10% of the total points you have earned on the assignment will be deducted per day (per 24 hour period). There are no makeup or extra credit assignments allowed, and assignments submitted more than 7 days late will not receive credit. Please contact the course instructor prior to the due date in the case of extenuating circumstances.

GRADING SCALE

RANGE	LETTER GRADE	GRADE POINT
97 – 100	A+	4.0
93 – 96	A	4.0
90 – 92	A-	3.7
87 – 89	B+	3.3
83 – 86	B	3.0
80 – 82	B-	2.7
77 – 79	C+	2.3
73 – 76	C	2.0
70 – 72	C-	1.7
67 – 69	D+	1.3
63 – 66	D	1.0
60 – 62	D-	0.7
<60	F	0

HONOR CODE

Students enrolled in the Johns Hopkins University School of Nursing are expected to conduct themselves in a manner that upholds the values of this institution of higher education. Each student is obligated to refrain from violating academic ethics and maintaining high standards of conduct. In addition, the School of Nursing upholds the professional code of ethics established in the Code of Ethics for Nurses (ANA, 2015). Each student is held accountable for adhering to the American Nurses Association Code of Ethics. For the full Johns Hopkins School of Nursing Honor code, please see the current [academic catalog and handbook](#).

EXAM INTEGRITY & STUDENT IDENTITY VERIFICATION

This course may require the use of technology and/or software to ensure exam integrity and verify the identity of the student taking the exam. Additional information and directions will be provided in the course website.

COMMUNICATION POLICY

Students may communicate with the instructor by email, which is provided in the Contact Information area. The instructor will respond to students within 48 hours. Assignment feedback will be provided to students within two weeks of submission.

All official communication, notices, & announcements will be distributed through student JHU-SON e-mail accounts via blackboard. The student is accountable for checking this account regularly and for all course communication sent to it.

Students are responsible for reading “Netiquette” which is located under Syllabus & Course Info on the Blackboard site. Netiquette provides simple guidelines for civil on-line discourse & behavior, that participants are to follow and expect of one another.

DISABILITY SERVICES

If you have a disability and may require accommodation in this course, please contact the *Office of Student Affairs* at (410) 955-7545 or SON-DSS@jhu.edu to discuss your specific needs.

COURSE SCHEDULE

Module	Module Subtopics	Learning Activities & Resources	Learning Assignments/ Assessments
Welcome – Start Here	<ul style="list-style-type: none"> • Getting Started 	Familiarize yourself with Blackboard	Discussion Board: Introduce Yourself Avoiding Plagiarism Module
Module 1: Introduction to Human Anatomy & Integumentary System	<ul style="list-style-type: none"> • Skin and subcutaneous Tissue • Hair and Nails • Cutaneous glands • Skin disorders 	<p>Saladin, K. S. (2017). <i>The unity of form and function (8th ed.)</i>. New York, NY: McGraw-Hill Higher Education.</p> <ul style="list-style-type: none"> • Atlas A: General Orientation to Human Anatomy • Chapter 6: The Integumentary System <p>Review the lecture materials posted in the module for this week.</p>	Module 1 Graded Quiz Module 1 Lab Exercises & Worksheet Module 1 Post-Lab Quiz
Module 2: Skeletal System I	<ul style="list-style-type: none"> • Tissues and organs • Osseous Tissue • Bone development 	<p>Saladin, K. S. (2017). <i>The unity of form and function (8th ed.)</i>. New York, NY: McGraw-Hill Higher Education.</p> <ul style="list-style-type: none"> • Chapter 7: Bone Tissue • Chapter 8: The Skeletal System <p>Review the lecture materials posted in the module for this week.</p>	Module 2 Graded Quiz Module 2 Lab Exercises & Worksheet Module 2 Post-Lab Quiz
Module 3: Skeletal System II & Muscular System I	<ul style="list-style-type: none"> • Cilia and flagella • Mitochondria and chloroplasts • Cytoskeletal fibers 	<p>Saladin, K. S. (2017). <i>The unity of form and function (8th ed.)</i>. New York, NY: McGraw-Hill Higher Education.</p>	Module 3 Graded Quiz Module 3 Discussion Board Module 3 Lab Exercises & Worksheet

Module	Module Subtopics	Learning Activities & Resources	Learning Assignments/ Assessments
		<ul style="list-style-type: none"> • Chapter 8: The Skeletal System • Chapter 9: Joints • Chapter 11: Muscular Tissue <p>Review the lecture materials posted in the module for this week.</p>	Module 3 Post-Lab Quiz
Module 4: Muscular System II	<ul style="list-style-type: none"> • Synovial joints • Diarthroses • Skeletal muscle • Nerves 	<p>Saladin, K. S. (2017). <i>The unity of form and function (8th ed.)</i>. New York, NY: McGraw-Hill Higher Education.</p> <ul style="list-style-type: none"> • Chapter 10: The Muscular System <p>Review the lecture materials posted in the module for this week.</p>	Module 4 Graded Quiz Module 4 Discussion Board Module 4 Lab Exercises & Worksheet Module 4 Post-Lab Quiz
Exam 1	None	Review content in Module 1 through Module 4	
Module 5: Cardiovascular System	<ul style="list-style-type: none"> • Cardiac conduction system • Electrical and contractile activity • Cardiac cycle and output 	<p>Saladin, K. S. (2017). <i>The unity of form and function (8th ed.)</i>. New York, NY: McGraw-Hill Higher Education.</p> <ul style="list-style-type: none"> • Chapter 19: The Circulatory System: Heart <p>Review the lecture materials posted in the module for this week.</p>	Module 5 Graded Quiz Module 5 Discussion Board Module 5 Lab Exercises & Worksheet Module 5 Post-Lab Quiz
Module 6: Respiratory System	<ul style="list-style-type: none"> • Pulmonary ventilation • Gas exchange and transport 	<p>Saladin, K. S. (2017). <i>The unity of form and function (8th ed.)</i>. New York, NY: McGraw-Hill Higher</p>	Module 6 Graded Quiz Module 6 Lab Exercises & Worksheet

Module	Module Subtopics	Learning Activities & Resources	Learning Assignments/ Assessments
	<ul style="list-style-type: none"> • Respiratory disorders 	<p>Education.</p> <ul style="list-style-type: none"> • Chapter 22: The Respiratory System <p>Review the lecture materials posted in the module for this week.</p>	Module 6 Post-Lab Quiz
Module 7: Cranial System (Brain & head)	<ul style="list-style-type: none"> • Forebrain, hindbrain, and midbrain • Cranial nerves 	<p>Saladin, K. S. (2017). <i>The unity of form and function (8th ed.)</i>. New York, NY: McGraw-Hill Higher Education.</p> <ul style="list-style-type: none"> • Chapter 14: The Brain and Cranial Nerves <p>Review the lecture materials posted in the module for this week.</p>	Module 7 Graded Quiz Module 7 Lab Exercises & Worksheet Module 7 Post-Lab Quiz
Exam 2	None	Review content in Module 5 through Module 7	
Module 8: Digestive System	<ul style="list-style-type: none"> • Chemical digestion and absorption 	<p>Saladin, K. S. (2017). <i>The unity of form and function (8th ed.)</i>. New York, NY: McGraw-Hill Higher Education.</p> <ul style="list-style-type: none"> • Chapter 25: The Digestive System <p>Review the lecture materials posted in the module for this week.</p>	Module 8 Graded Quiz Module 8 Discussion Board Module 8 Lab Exercises & Worksheet Module 8 Post-Lab Quiz
Module 9: Urinary System	<ul style="list-style-type: none"> • Urine and renal function tests 	<p>Saladin, K. S. (2017). <i>The unity of form and function (8th ed.)</i>. New York, NY: McGraw-Hill Higher Education.</p> <ul style="list-style-type: none"> • Chapter 23: The Urinary 	Module 9 Graded Quiz Module 9 Lab Exercises & Worksheet Module 9 Post-Lab Quiz

Module	Module Subtopics	Learning Activities & Resources	Learning Assignments/ Assessments
		<p>System</p> <p>Review the lecture materials posted in the module for this week.</p>	
<p>Module 10: Reproductive System</p>	<ul style="list-style-type: none"> • Puberty • Sexual response 	<p>Saladin, K. S. (2017). <i>The unity of form and function (8th ed.)</i>. New York, NY: McGraw-Hill Higher Education.</p> <ul style="list-style-type: none"> • Chapter 27: The Male Reproductive System • Chapter 28: The Female Reproductive System <p>Review the lecture materials posted in the module for this week.</p>	<p>Module 10 Graded Quiz Module 10 Lab Exercises & Worksheet Module 10 Post-Lab Quiz</p>
<p>Exam 3</p>	<p>None</p>	<p>Review content in Module 8 through Module 10</p>	