

BIOL 1551 - Anatomy and Physiology 1

Fall 2026 Syllabus, Section 03, CRN 44059,

Credit hours: 3

Instructor

Christine Cunningham

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Public Instructor Information

Instructor Title: Adjunct Faculty Biology & Chemistry Christine M. Cunningham

Instructor Professional Qualifications:

B.S. Biology & Secondary Ed.

M.S. Chemistry & Technology & Secondary Ed.

ABD- PhD Integrated Bioscience

Instructor Office Location: remote by appointment

Instructor Office Phone: TBD

Course Description

1551. Anatomy and Physiology 1. Structure, function, and clinical applications of the integument, musculature, skeletal, and nervous systems.

Targeted for students in nursing and associated health professions. Three hours of lecture. Not applicable to the Biological Sciences major.

Restrictions: High school biology, High school chemistry. Prereq.: "C" or better CHEM 1501, and Level 20 or better on the MPT. Coreq.: BIOL 1551L. 3 s.h.

Course Readings

Group	Title	Author	ISBN
Required	Hole's Human Anatomy & Physiology		

Hole's Human Anatomy and Physiology. Authors: Charles J. Welsh and Cynthia PrenticeCraver. McGraw-Hill Co. Publisher.

You will use this textbook for BIOL 1551 lecture, 1551 lab, 1552 lecture, & 1552 lab.

The course readings are subject to change in the event of extenuating circumstances, research developments, current events, and/or to ensure better learning.

Schedule of Topics and Assignments

Week of	Reading(s)	Proposed Topic	Due/To Prepare for Class
8/24	Scientific Study of the Human Body Questions Scientific Study Virtual Lab Applying Scientific Method NO IN-PERSON CLASS ----- ONLINE VIRTUAL LAB		
8/31	Histology Questions: Histology Virtual Lab Activity: Connective Tissue Histology NO IN-PERSON CLASS ----- ONLINE VIRTUAL LAB		



9/7	Cytology Questions: Cytology Virtual Lab: DNA Biology & Technology-Rapid Diagnostic Testing NO IN-PERSON CLASS ---- ONLINE VIRTUAL LAB
9/14	Integumentary System Questions Integumentary System Virtual Lab Activity: Epithelial Tissue Histology • Histology Slide Review: • Epithelial Tissue Histology • Muscular Tissue Histology • Connective Tissue Histology
9/21	Skeletal System Questions: Skeletal System Online Lab: Skeletal Shoulder & Elbow movement ex. • Face and Skull PowerPoint Structures
9/28	Bone Dissection Online Lab: Skeletal Muscle Electrical Stimulation • Bones of Shoulder & Arm PPT structures • Bones of Pelvic & Leg PPT
10/5	• Clinical Application • Review Bones of Vertebral Column & Thoracic Cage PPT
10/12	Lab Practical 1
10/19	Nervous System: Nerve Tissue Questions: Nervous Tissue Online Lab: Microscopy Nervous Tissue Brain Dissection structures • Brain Anatomy PPT • Nervous Tissue Histology ppt
10/26	Nervous System: CNS Questions: CNS • Ear Structures PPT
11/2	Online Lab Activity: Eye and Vision: Eye Dissection Online Eye and Visual Acuity Test • Eye structures PPT • In Lab Visual Acuity Tests • Online video: how to check Acuity
11/9	Muscular System Questions: Muscular System Online Muscle Dissection • Head muscles review PPT • Abdomen and Thorax muscles PPT
11/16	Spinal Cord Anatomy • Arms and Leg Muscles PPT
11/23	Nervous System Sensation Online Lab: Demonstrate Monosynaptic Reflexes Questions: Nervous System Sensation • General Senses lab
11/30	Lab Practical 2
12/7	Finals Week – No Lab Finals Week – No Lab

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