BIOL 3705L - Introduction to Human Gross Anatomy Laboratory

Fall 2026 Syllabus, Section 01, CRN 42022,

Credit hours: 0

Public Instructor Information

Instructor Title: *Professor of Zoology*
Instructor Professional Qualifications:

Postdoctoral Fellow (Bone Biomechanics), Clemson University
Ph.D., Zoology (Muscle Biomechanics), University of Calgary/Florida State University
M.S., Biology (Functional Morphology), Wake Forest University

Instructor Office Location: *4013 Ward Beecher Science Hall; Laboratory 4011 WBSH*
Instructor Office Phone: *x2195*

Course Description

3705L. Introduction to Human Gross Anatomy Laboratory. Introduction to Human Gross Anatomy Laboratory. 0 s.h.
Introduction to Human Gross Anatomy is a lecture and laboratory course that provides a detailed overview to the structure of human primates. The lecture utilizes the course textbook and detailed anatomical images from anatomical software. The skeleton and muscle models in the Anatomy Laboratory will allow students to visualize the bones, muscle attachment points, muscle actions, nerve innervations, blood supplies, and positional relationships of animal anatomy. A full three-dimensional understanding of body structure can NOT be accomplished by only examining 2D images.

In general, anatomy concerns the study of bodily **structures**, providing the knowledge that is essential to understanding body **function**. In this course, we will concentrate on the study of human gross anatomy, the examination of those body structures that can be grossly observed (seen with the unaided eye). Because anatomy is a visual science, you will be studying numerous figures from your textbook, views from *Anatomy* software, and detailed laboratory models to help you visualize and integrate body structures. The course will take a regional approach (e.g., lower limb, upper limb, head & neck, thorax-abdomen-pelvis, etc.). Lectures will present material intended as a specific foundation and framework for the laboratory observations. Students are expected to utilize independent study time to thoroughly evaluate each anatomical region.

Course Readings

Group	Title	Author	ISBN
Required	Introduction to Human Gross Anatomy: A Regional Guide	Womble, M.D.	978-1-61740-852-6

Course textbook from Van-Griner Publishing: https://store2.van-griner.com/product/introduction-to-human-gross-anatomy-a-regional-guide/

Recommended Materials

1. Introduction to Human Gross Anatomy Laboratory Guide, by Dr. Mark D. Womble.This guide provides instructions for use of *A.D.A.M. Interactive Anatomy* software. Kendall Hunt Publishing: https://he.kendallhunt.com/product/laboratory-guide-introduction-human-gross-anatomy

2. A.D.A.M. Interactive Anatomy software http://adameducation.com/online-subscriptions.aspx

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

Day	Date	Reading(s)	Proposed Topic	Due/To Prepare for Class
Fri	8/28	Chapter 1 Chapter 2 Chapter 2 Chapter 3 Chapter 3 Chapter 4 Chapter 4 Chapter 5	Introduction to Anatomy Bones and Fascia of the Lower Limb Bones and Fascia of the Lower Limb Muscles & Movements Muscles & Movements Muscles of the Hip Muscles of the Hip Quiz 1 Muscles of the Thigh	Review Textbook Chapter(s) & Previous Lecture Material Review Textbook Chapter(s) & Previous Lecture Material Review Textbook Chapter(s) & Previous Lecture Material Review Textbook Chapter(s) & Previous Lecture Material Review Textbook Chapter(s) & Previous Lecture Material
Fri	9/4	Chapter 5 Chapter 6 No Class	Muscles of the Thigh Quiz 2 Muscles of the Leg and Foot	Review Textbook Chapter(s) & Previous Lecture Material Review Textbook Chapter(s) & Previous Lecture Material
Fri	9/11	Chapter 6 Chapter 7 Chapter 8 Chapter 9 Chapter 9	Muscles of the Leg and Foot Introduction to Nervous System Nerves of Lower Limb Blood Vessels of Lower Limb Quiz 3 Blood Vessels of Lower Limb	Review Textbook Chapter(s) & Previous Lecture Material Review Textbook Chapter(s) & Previous Lecture Material Review Textbook Chapter(s) & Previous Lecture Material
Fri	9/18	Chapter 10 Chapter 22 Chapter 23	Joints of the Lower Limb Practical Exam 1 Bones and Muscles of the Axial Skeleton Bones of the Upper Limb	Review Textbook Chapter(s) & Previous Lecture Material Review Textbook Chapter(s) & Previous Lecture Material Review Textbook Chapter(s) & Previous Lecture Material
Fri	9/25	Chapter 23 Chapter 24 Chapter 25	Lecture Exam 1 Bones of the Upper Limb Muscles of the Superficial Back, Shoulder, & Axilla Quiz 4 Muscles of the Arm	Review Textbook Chapter(s) & Previous Lecture Material Review Textbook Chapter(s) & Previous Lecture Material
Fri	10/2	Chapter 26 Chapter 26 Chapter 27 Chapter 27	Muscles of the Forearm Muscles of the Forearm Intrinsic Muscles of the Hand Quiz 5 Intrinsic Muscles of the Hand	Review Textbook Chapter(s) & Previous Lecture Material Review Textbook Chapter(s) & Previous Lecture Material Review Textbook Chapter(s) & Previous Lecture Material
Fri	10/9	Chapter 28 Chapter 28 Chapter 29 Chapter 30	Nerves of the Upper Limb Nerves of the Upper Limb Blood Vessels of the Upper Limb Quiz 6 Joints of the Upper Limb	Review Textbook Chapter(s) & Previous Lecture Material Review Textbook Chapter(s) & Previous Lecture Material Review Textbook Chapter(s) & Previous Lecture Material
Fri	10/16	Chapter 11 Chapter 12	Lecture Exam 2 Practical Exam 2 Bones of the Skull The Brain	Review Textbook Chapter Review Textbook Chapter(s) & Previous Lecture Material

Fri	10/23	Chapter 12 Chapter 13 Chapter 14 Chapter 15 Chapter 16	The Brain Ventricles & Dural Venous Sinuses Meninges and Blood Circulation of the Brain The Spinal Cord Quiz 7 The Spinal Cord Autonomic Nervous System	Review Textbook Chapter(s) & Previous Lecture Material Review Textbook Chapter(s) & Previous Lecture Material Review Textbook Chapter(s) & Previous Lecture Material
Fri	10/30	Chapter 16 Chapter 17 Chapter 17 Chapter 18 Chapter 18	Automomic Nervous System Cranial Nerves and Foramina of the Skull Cranial Nerves and Foramina of the Skull The Neck Quiz 8 The Neck	Review Textbook Chapter(s) & Previous Lecture Material Review Textbook Chapter(s) & Previous Lecture Material Review Textbook Chapter(s) & Previous Lecture Material
Fri	11/6	Chapter 19 Chapter 19 Chapter 20 No Class	The Head The Head Extraocular Muscles & Muscles of the Tongue	Review Textbook Chapter(s) & Previous Lecture Material Review Textbook Chapter(s) & Previous Lecture Material
Fri	11/13	Chapter 20 Chapter 31 Chapter 31	Quiz 9 Extraocular Muscles & Muscles of the Tongue Practical Exam 3 Lecture Exam 3 The Thorax The Thorax	Review Textbook Chapter(s) & Previous Lecture MaterialReview Textbook Chapter(s) & Previous Lecture Material Review Textbook Chapter
Fri	11/20	Chapter 32 Chapter 32 Chapter 33 No Class	The Heart The Heart Muscles of the Abdominal and Pelvic Walls Quiz 10	Review Textbook Chapter(s) & Previous Lecture Material Review Textbook Chapter(s) & Previous Lecture Material
Fri	11/27	Chapter 34 Chapter 35 Chapter 36 No Class	Organs of Digestion Peritoneum Blood Vessels and Nerves of the Abdominal Cavity Quiz 11 Blood Vessels and Nerves of the Abdominal Cavity	Review Textbook Chapter(s) & Previous Lecture Material Review Textbook Chapter(s) & Previous Lecture Material
Fri	12/4	Chapter 37 Chapter 38 Chapter 39	Urinary System Male Reproductive System Female Reproductive System and Blood Vessels of Pelvis Lecture Exam 4	Review Textbook Chapter(s) & Previous Lecture Material
Fri	12/11		Practical Exam 4	

The course schedule, policies, procedures, and assignments in this course are subject to change in the event of extenuating circumstances, by mutual agreement, and/or to ensure better learning.