Table of Contents of IB 131 Lab Guide

Syllabus

Pages 1-4: Lab Introduction

Pages 5-9: Lab Rules

Pages 11-15: Lab #1: Axial Skeleton; Bone & Cartilage Tissue

Pages 21-26: Lab #2: Appendicular Skeleton; Joints; Connective Tissues

Pages 31-37: Lab #3: Muscle Tissue; Muscles of Extremities

Pages 43-53: Lab #4: Muscles of Head, Neck & Trunk; Epithelia

Pages 59-64: Lab #5: Brain, Cranial Nerves, Spine; Nervous Tissue

Pages 69-73: Lab #6: Special Senses; Spinal Cord & Spinal Nerves; Peripheral Nervous System; Autonomic Nervous System

Pages 79-84: Lab #7: Blood; Blood Vessels; Endocrine Glands

Pages 89-93: Lab #8: Respiratory System & Heart

Pages 99-102: Lab #9: Digestive System

Pages 107-113: Lab #10: Lymphatic/Immune System; Integument; Urinary/Renal System

Pages 119-121: Lab #11: Reproductive System

Pages 123-139: Histology Slide Descriptions

Pages 141-145: Latin & Greek Linguistic Roots
SYLLABUS  IB 131 Human Anatomy Lab Fall 2017
University of California, Berkeley, Department of Integrative Biology

Anatomy Teaching Lab in VLSB 3070

GSIs:

Lab sections
Mon 1-5PM (Section 10) – Larry Taylor
Mon 6-10PM (Section 9) – Nick Spano
Tues 8 AM-12 Noon (Section 1) – Sarah Banker
Tues 1-5PM (Section 2) - Shawn Shirazi
Tues 6-10PM (Section 3) – Leeann Louis
Wed 1-5PM (Section 4) - Eric Holt
Wed 6-10PM (Section 5) – Sara ElShafie
Thurs 8 AM-12 Noon (Section 6) - Peter Kloess
Thurs 1-5PM (Section 7) – Mackenzie Kirchner-Smith
Thurs 6-10PM (Section 8) – Daniel Latorre

Open Lab hours: 12-1p Mon to Fri and 5-6p Mon to Thurs.
Required Texts:

M = Marieb & Mitchell *Human Anatomy Laboratory Manual, 7th* or *8th* Ed.

**Required material from M =** Marieb & Mitchell *Human Anatomy Laboratory Manual, 7th* or *8th* Edition: the human biology material is required material. The anatomy material on cats and rats are not required.

A Brief Atlas of the Human Body Atlas, by Hutchinson, Mallatt, Marieb, & Wilhelm

IB 131 Human Anatomy Lab GUIDE (can be purchased at Krishna Copy Center, 2001 University Ave., phone 540-5959)

Recommended Supplemental Recommended Texts/Materials:

Marieb, Human Anatomy *6th*. *7th* or *8th* edition

Mastering A&P

PAL 3.0 (Practice Anatomy Lab DVD)


Netter Anatomy textbook

Kapit, Human Anatomy Coloring Book

Recommended Supplemental free Web-based material:

3-D Brain App – Science NetLinks: go to Targeted Content and select 3-D Brain Visual Anatomy Lite

http://www.med.umich.edu/lrc/coursepages/m1/anatomy2010/html/INDEX.htm

http://www.histology.leeds.ac.uk/index.php


Course Exams: Two Midterm Exams and a Final Exam

Midterm #1: week of 9/25 – 9/29

Midterm #2: week of 10/23 – 10/27

Final Exam: week of 11/27 – 12/1

Course Grading:

MT#1 = 100, MT#2 = 100, Final Exam = 100 quizzes 10 x 10 = 100 total = 400
**LAB 1 (8/28-9/1)**

THE HUMAN BODY: AN ORIENTATION
The Language of Anatomy, M Exercise 1: pp. 1-14
Organ Systems Overview, M Exercise 2 pp.15-16; Activity 5 pp. 23-24; Review Sheet pp. 25-26
THE MICROSCOPE AND ITS USES
The Microscope, pp. 27-30
SKELETAL SYSTEM Part 1
Overview of Skeleton: Classification and Structure of Bones and Cartilage
M Exercise 7: pp. 91-104 (Activity 3 NOT required)
The Axial Skeleton
M Exercise 8: pp. 105-131

**LAB 2 (9/5-9/8)** (Labor Day 9/4 is Holiday)

SKELETAL SYSTEM Part 2
Appendicular Skeleton
M Exercise 9: pp. 133-151
Articulations and Body Movements
M Exercise 10: pp. 153-170
HISTOLOGY: CONNECTIVE TISSUES OF THE BODY
Classification of Connective Tissues
M Exercise 5: pp. 60-67, 73

**LAB 3 (9/11-9/15)**

MUSCLE SYSTEM Part 1
Microscopic Anatomy and Organization of Skeletal Muscle
M Exercise 11: pp. 171-179
M Exercise 5: pp. 69-70, 74
Gross Anatomy of the Muscular System of Upper and Lower Extremities
M Exercise 12: pp.181-182, 197-215 (Activities 5 & 6 are optional), 231, 234, 235 (Cat Muscle info NOT required)

**LAB 4 (9/18-9/22)**

MUSCLE SYSTEM Part 2
Gross Anatomy of the Muscular System of Head, Neck, and Trunk
M Exercise 12: pp.182-196, 231-233, 236-238 (Cat Muscle info NOT required)
HISTOLOGY: EPITHELIAL TISSUES OF THE BODY
Classification of Epithelial Tissues
M Exercise 5: pp. 53-59, 71-73, 75, 76

**IB 131 Lab Midterm #1 (9/25-9/29)**
LAB 5 (10/2-10/6)
THE NERVOUS SYSTEM Part 1
Gross Anatomy of the Brain and Cranial Nerves
M Exercise 14: pp. 253-267, 272-278, (Sheep Brain info NOT required)
Spinal Cord: M Exercise 15: pp. 279-284 images on 310-312
Histology of Nervous System
M Exercise 13: pp 239-252; M Exercise 5: pp. 67, 74, Fig 5.6

LAB 6 (10/9-10/13)
THE NERVOUS SYSTEM Part 2
Histology of Nervous System
M Exercise 13: pp 239-252
M Exercise 5: pp. 67, 74, Fig 5.6
Peripheral Nervous System and the Autonomic Nervous System
M Exercise 15: pp. 284-291, 295-297 (Cat Nerve info NOT required)
M Exercise 16: pp. 299-303
Special Senses: Vision
M Exercise 18: pp. 305-310, 313-316, Fig 17-5
Special Senses: Hearing and Equilibrium
M Exercise 19: pp. 327-331, 333-334, 337-339 Activities 1,3,5 required,
Activities 2,4,6 NOT required; Lab Tests NOT required
Special Senses: Olfaction & Taste
M Exercise 20: pp. 341-344, 347
Activities 3-6 NOT required; Lab Experiments NOT required

LAB 7 (10/16-10/20)
Endocrine Glands: M Exercise 21: pp. 349-353, 355-362 (Cat info NOT required)
Anatomy of Blood Vessels
M Exercise 24: pp. 397-413, 421-428 (Cat Vessel info NOT required)
tests are NOT required)

IB 131 Lab Midterm #2 (10/23-10/27)
LAB 8 (10/30-11/3)
THE RESPIRATORY SYSTEM
Anatomy of the Respiratory System
M Exercise 26: pp. 441-447, 451-455, Fig 26.7
(Cat Lung info NOT required)
THE HEART Anatomy of the Heart
M Exercise 23: pp. 383-388, 392, 393-396

LAB 9 (11/6-11/10)
THE DIGESTIVE SYSTEM
Anatomy of the Digestive System
M Exercise 27: pp. 457-473, 479-484 (Cat info NOT required)

LAB 10 (11/13-11/18)
Lymphatic & Immune Response
M Exercise 25: pp. 429-435, 437-439 (Cat Lymph info NOT required)
THE INTEGUMENTARY SYSTEM AND BODY MEMBRANES
Integumentary System
M Exercise 6: pp. 77-90 (Activities 3, 5 & 6 NOT required)
THE URINARY SYSTEM
Urinary System
M Exercise 28: pp. 485-493, 496-500
(Cat & Pig info NOT required)

LAB 11 (11/20-11/21)
THE REPRODUCTIVE SYSTEM
Anatomy of the Reproductive System
M Exercise 29: pp. 503-513, 517-522 (Cat info NOT required)

IB 131 Lab Final Exam (11/27-12/1)