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## **SYLLABUS IB 131 Human Anatomy Lab Fall 2017**

University of California, Berkeley, Department of Integrative Biology

### **Anatomy Teaching Lab in VLSB 3070**

#### **GSI:**

#### **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*, 7<sup>th</sup> or 8<sup>th</sup> Ed.  
**Required material from M** = Marieb & Mitchell *Human Anatomy Laboratory Manual*, 7<sup>th</sup> or 8<sup>th</sup> 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 6<sup>th</sup>, 7<sup>th</sup> or 8<sup>th</sup> edition

Mastering A&P

PAL 3.0 (Practice Anatomy Lab DVD)

W=Young & Heath, *Wheater's Functional Histology*, 5<sup>th</sup> Ed.

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>

[http://www.sporcle.com/games/bef\\_0110/foramen\\_of\\_the\\_skull](http://www.sporcle.com/games/bef_0110/foramen_of_the_skull)

**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)

Blood: M Exercise 22: pp. 365-378, 379-380 (Activities 1-9 and Hematological 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)**