

IB 131 Human Anatomy Lab Fall 2015 Syllabus

University of California, Berkeley, Department of Integrative Biology

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Carlson Office Hours in VLSB 1098: Monday 12:10-1:00, Tuesday
11:10-12:00, Wednesday 1:10-2:00

Anatomy Teaching Lab in VLSB 3070

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Lab sections

Mon 7-11 am (Section 11):
Mon 1-5 pm (Section 10):
Mon 6-10 pm (Section 9):
Tues 8 am-12 noon (Section 1):
Tues 1-5 pm (Section 2):
Tues 6-10 pm (Section 3):
Weds 7-11 am (Section 12):
Weds 1-5 pm (Section 4):
Weds 6-10 pm (Section 5):
Thurs 8 am-12 noon (Section 6):
Thurs 1-5 pm (Section 7):
Thurs 6-10 pm (Section 8):
Friday 7-11 am (Section 13):

IB 131 Lab Syllabus Fall 2015, Tom Carlson <tcarlson@berkeley.edu>
7/21/15 version

Required Texts:

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

PAL 3.0

Human Body Atlas

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 or 7th edition

Mastering A&P

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

Netter Anatomy textbook

Kapit, Human Anatomy Coloring Book

Recommended Supplemental 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>

Course Exams: Two Midterm Exams and a Final Exam

Midterm #1: week of 9/28 – 10/2

Midterm #2: week of 10/26 – 10/30

Final Exam: week of 11/30 – 12/4

Course Grading:

MT#1= 100

MT#2= 100

Final= 100

quizzes 10 x 10 = 100

total = 400

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

LAB 1 (8/31-9/4)

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 (9/8-9/11)

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 (9/14-9/18)

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 (9/21-9/25)

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 (9/28-10/2)

LAB 5 (10/5-10/9)

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 (10/12-10/16)

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 (10/19-20/23)

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 (10/26-10/30)

LAB 8 (11/2-11/6)

THE RESPIRATORY SYSTEM

Anatomy of the Respiratory System

M Exercise 26: pp. 441-447, 451-455, Fig 26.7

(Cat & Sheep Lung info NOT required)

THE HEART Anatomy of the Heart

M Exercise 23: pp. 383-388, 392, 393-396 (Sheep Heart info NOT required)

LAB 9 (11/9, 11-10, 11/12, 11/13)

THE DIGESTIVE SYSTEM

Anatomy of the Digestive System

M Exercise 27: pp. 457-473, 479-484 (Cat info NOT required)

LAB 10 (11/16-11/20)

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 & Sheep Kidney info NOT required)

LAB 11 (11/23-11/24)

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 (11/30-12/4)