IB 131 Human Anatomy Lab Fall 2015 Syllabus

University of California, Berkeley, Department of Integrative Biology

Tom Carlson  tcarlson@berkeley.edu

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

Head GSI: Crystal Wang  cwang17@berkeley.edu

GSIs:

Luke Bloch  l.bloch@berkeley.edu
Sofia Chang  swchang@berkeley.edu
Diana Chen  dichen147@berkeley.edu
Sara ElShafie  selshafie@berkeley.edu
Sarah Hykin  smhykin@berkeley.edu
Sunhee Kim  sunhee.kim@berkeley.edu
Tesla Monson  tesla.monson@berkeley.edu
Benjamin Muddiman  bmuddiman@berkeley.edu
Erik Sathe  eksathe@berkeley.edu
Shawn Shirazi  s.shirazi@berkeley.edu
Sarah Whiteside  whiteside24@berkeley.edu

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:**


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


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)
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)