

LA GUARDIA COMMUNITY COLLEGE OF THE CITY UNIVERSITY OF NEW YORK

SCB 204: HUMAN ANATOMY AND PHYSIOLOGY II LABORATORY SYLLABUS

**Required Materials:** Dissection Kit, goggles and nitrile disposable gloves.

**Books:** ISBN 978-1-64043-046-4 Exploring Anatomy & Physiology in the Laboratory by Erin C. Amerman, Morton Publishing, Third Edition 2017 and selections from: A Dissection Guide & Atlas to the Rat by David G. Smith & Michael P. Schenk, Morton Publishing, 2001 and An Illustrated Atlas of the Skeletal Muscles by Bradley S. & Joan M. Bowden, Morton Publishing, Fourth Edition 2015.

Lab #	Laboratory Topic	Reading in Amerman and other Texts (in bold)	Required Handouts	Review in Amerman (Pages and Questions)
1	Introduction Nervous System Anatomy and Histology Spinal cord and Peripheral Nerves Anatomy and Histology Rat Brachial Plexus Dissection	Unit 12 p. 313-324, p. 125 Unit 13 p. 349-352 Unit 14 p. 367-368, 375-378	Figure Rat Brachial Plexus	327-330 (1-10), 331-332 (1-7), 355-356 (7-10), 383-384 (1, 5, 6), 387 (1)
2	Human and Sheep Brain Anatomy including cranial nerves Sheep Brain Dissection	Unit 13 p. 333-348 Unit 14 p. 359-363, 369-371 <b>Smith and Schenk</b> selections		353-354 (1-6), 357-358 (1-4)
3	Human and Calf Eye Anatomy Physiology of Vision Tests Cow Eye Dissection	Unit 15 p. 389-390, 392-402 <b>Smith and Schenk</b> selections		413-414 (1-3), 417 (1-3)
4	Senses - Auditory, Integumentary, Olfactory and Gustatory Anatomy and Physiology	Unit 15 p. 391, 403-412		414-416 (4-10), 417-418 (4-8)
5	<b>PRACTICAL EXAM (LABS 1-4)</b> CNS Physiology Human Somatic and Autonomic Reflexes	Unit 14 p. 359-361, 371-374, 380-382		384 (7), 386 (10), 387-388 (4, 7)
6	Digestive System Anatomy and Histology Rat Digestive System Dissection	Unit 24 621-648 <b>Smith and Schenk</b> selections		657-660 (1-7), 661-662 (1-5)

7	Digestive System Physiology	Unit 24 p. 649-656		660 (8-10), 662 (5)
8	Urinary System Anatomy, Histology and Physiology Rat Urinary System Dissection	Unit 25 663-682 Unit 26 697-702 <b>Smith and Schenk</b> selections		683-686 (1-10), 687-688 (1-7), 703-704 (5, 6-10), 705-706 (1-3, 5-7)
9	<b>WRITTEN EXAM (LABS 5-8)</b> Human and Rat Reproductive Anatomy and Histology Rat Reproductive System Dissection	Unit 27 707-719, 726-729 <b>Smith and Schenk</b> selections		731-733 (1-5), 735 (1-4)
10	Physiology of Reproduction Meiosis and Fertilization	Unit 27 720-725 Unit 28 737-741		757 (1)
11	<b>PRACTICAL EXAM (LABS 6-10)</b> Embryonic Development, Early Cleavage, Late Pregnancy and Parturition	Unit 28 741-745		753-756 (1-6), 757 (2-4)
12	Genetics	Unit 28 746-752	Electrophoresis and Genetics Handout	756 (8-10), 757-758 (5-8)
Finals Week	<b>WRITTEN EXAM (LABS 9-12)</b>			

Each laboratory exam is 10% of the final course grade

Lab practical exams are only offered that week during the semester which may begin mid-week

**Note: There is a strict no food, no drink, no smoking and no open toed shoe policy in the laboratory. Students who fail to comply with this rule may not participate in the laboratory.**

**Note: Make-up of missed labs and practical exams must require a written excuse justifying the absence and be authorized by the student's laboratory instructor with prior permission granted by the host laboratory instructor.**