LA GUARDIA COMMUNITY COLLEGE OF THE CITY UNIVERSITY OF NEW YORK

SCB 203: HUMAN ANATOMY AND PHYSIOLOGY I LABORATORY SYLLABUS

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

Books: ISBN 978-1-61731-802-3 (Bundle of all 3 texts). Exploring Anatomy & Physiology in the Laboratory by Erin C. Amerman, Morton Publishing, Third Edition 2017; A Dissection Guide & Atlas to the Rat by David G. Smith & Michael P. Schenk, Morton Publishing, 2001; 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, Lab Safety, Microscope, Chemical & Physical Principles of Particle Movement	Unit 4 p. 81, 84, Unit 3 p 59-61, 63	Lab 1 handouts (4)	93-94 (4-5, 7), 95-96 (4-6), 62 (1-3), 64 (4-6), 66-68 (7-10)
2	Metric System and The Cell	Unit 4 p. 69-80	The Metric System	93-94 (1-3, 6), 95 (1-3)
3	Mitosis and the Cell Cycle; Tissues	Unit 4 p. 88-92 Unit 5 p. 97-126		94 (8-10), 96 (7), 127-129 (1-10), 131-132 (1-6)
4	**WRITTEN EXAM (LABS 1-3)** Anatomical Terminology; Gross Bone Anatomy & Bone Histology Axial Skeleton	Unit 1 p 1-8, 21-22 Unit 7 p. 153-172 Unit 8, p. 173-195, 204-205 **Bowden** p 1-23 and p. 326	Bone List Definition of Bone Markings, Fig. A4	29 (1-3), 32 (7-8), 169-170 (1-9), 171-172 (1-6), 189-190, 213-218 (1-6), 223 (1-3)
5	Appendicular Skeleton Fetal Skeleton Articulations	Unit 8 p. 196-212 Unit 9 p. 225-245 **Bowden** p 1-23, p. 49-68	Same as Lab 4	219-222 (7-10), 224 (4-6), 247-250 (1-10)
6	**BONE PRACTICAL EXAM (LABS 4-5)** Muscle Histology and Organization; Introduction to Clay Modeling of Human Muscles	Unit 5 p. 121-124 Unit 10 p. 253-276 Unit 11 p. 289-300, 305-306 **Bowden** p. 69-263	Maniken® Care, Tips for Working with Clay, Muscle Application List, Sculpting Muscles, Human Muscle List, Fig. A1, A2	123 (1-3), 124, 135 (5), 281-286 (1-10), 287-288 (1-6), 307-308 (1-5), 310 (10)

7	Muscles and the Human Muscular System	Unit 10 p 253-280 **Bowden** p. 69-263	Same	281-286 (1-10), 287-288 (1-6), 307-308 (1-5), 311-312 (1-7).
8	Muscles and the Human Muscular System	Unit 10 p 253-280 **Bowden** p. 69-263	Same	281-286 (1-10), 287-288 (1-6)307-308 (1-5), 311-312 (1-7)
9	**MUSCLE PRACTICAL EXAM (LABS 6-8)** Blood Histology & Physiology	Unit 20 p.529-536		549-550 (1-10), 551-552 (1-7)
10	Heart Anatomy and Physiology; Measuring Blood Pressure	Unit 17 p 445-462 Unit 19 p 518 Unit 28, Fig 28.6 p 744 **Smith & Schenk**, p. 69-72	Sculpting the Heart out of Clay	463-466 (1-10), 467-468 (1-6)
11	Blood Vessel Histology and Anatomy	Unit 18 p. 469-493, Fig. 28.6 p 744	Sculpting the Blood Vessels out of Clay	497-502 (1-10), 503-504 (1-6)
12	Respiratory Anatomy and Physiology; Spirometry	Unit 22 p. 579-596 Unit 23 p. 605-613	Sculpting the Respiratory System	599-602 (1-10), 603-604 (1-7), 617-618 (1-10), 619-620 (1-7)
Finals Week	**PRACTICAL AND WRITTEN EXAMS (LABS 9-12)**			

Each laboratory exam is 10% of the final course grade
The lab exam during finals week is 40% practical and 60% written.
Students may be awarded 10 points for successfully completing the clay modeling activities
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 attend 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.