

ANATOMY 30- ESSENTIALS OF ANATOMY &PHYSIOLOGY

Bruce H. Letvin, D.P.M. Section: 1000 TTh 7:00-11:15AM Room LS-109

WEEK	DATE	TOPIC	TXT	HW	LAB
1	SEP 1	Intro to Anat. & Physio.	Ch 1	Ex 1,2	Anat. Term. & Organ Surv.
	3	Cell Structure & Funct.	Ch 3	Ex 3,	Cell Struct. & Microscope
2	8	Tissues	Ch 4	Ex 5	Histology : Epithelium
	10	Integumentary System	Ch 5	Ex 6	Hist: Epith & Connect.Tiss
3	15	Chemical Organization	Ch 2	Ex 4	Cell Membrane,Transport
	17	Bones & Skeletal Tissue	Ch 6	Ex 7	Hist: Epith & Connect. Tiss.
4	22	Lecture Exam 1 (Ch 1-5) & Practicum 1-Histology, Microscope, Mitosis			
	24	Axial Skeleton	Ch 6	Ex 8	Skeletal Tissue, Skeleton
5	29	Appendicular Skeleton	Ch 6	Ex 9	Skeleton
OCT	1	Articulations	Ch 6	Ex 10	Articulations
6	6	Lecture Exam 2 (Ch 6) & Practicum 2 Skeletal Tissue,Skeleton,Joints			
	8	Muscle Tissue	Ch 7	Ex 11	Muscle Models
7	13	Muscles	Ch 7	Ex 12	Muscle Models
	15	Nervous Tissue	Ch 8	Ex 13	Muscle Models
8	20	Lecture Exam 3 (Ch 7) & Practicum 3 Muscle Models			
	22	Central Nervous System	Ch 8	Ex 14	Nervous Tissue Models
9	27	Peripheral Nervous System	Ch 8	Ex 15	Nervous System Models
	29	Autonomic Nervous System	Ch 8	Ex 14	Sheep Brain Dissection
10	NOV 3	Special Senses	Ch 9	Ex 17	Eye, Ear, Nose Models
	5	Blood	Ch 11	Ex 19	Sheep Eye & Models
11	10	Lecture Exam 4 (Ch 8,9) & Practicum 4 Nervous & Sense Models			
	12	Heart	Ch 12	Ex 20	Sheep Heart, Models
12	17	Blood Vessels	Ch 13	Ex 21	Heart, Vascular Models

WEEK	DATE	TOPIC	TXT	HW	LAB
	19	Lymphatic System	Ch 14	Ex 22	Blood Pressure, Pulse
13	24	Endocrine System	Ch 10	Ex 21	Heart, Vasc., Lymph., Mod.
	26	Thanksgiving Holiday			
14	DEC 1	Lecture Exam 5 (Ch 11-14) & Practicum 5	Heart, Vasc., Lymph., Models		
	3	Respiratory System	Ch 15	Ex 23,24	Respiratory Models
15	8	Digestive System	Ch 16	Ex 25	Digestive Models
	10	Urinary System	Ch 18	Ex 26	Urinary Models
16	15	Reproductive System	Ch 19	Ex 27	Reproductive Models
	17	Final Exam (Ch 10,15,16,18,19) Practicum 6	Resp, Dig, Urin, Repro		Mod.

Course Description: Essentials of Anatomy and Physiology lecture and lab is an overview of human anatomy and physiology, including a systematic look at fundamental physical & chemical principles, basic anatomical and physiological concepts, and the dissection of the Sheep Eye & Brain. This course is designed for non-professional majors, and it may meet the anatomy requirements for the two-year RN program or other health related programs. It is an excellent introductory course for Anatomy 32 and Physiology 31, which are designed for the BSN degree and for the pre-professional biology student.

Course Objectives: upon completion of this course, you should be able to

1. Explain the basic levels of biological organization in the body.
2. Describe the characteristics of living organisms.
3. Define metabolism and homeostasis and give examples of these processes in the body.
4. Explain how our cells and bodies are dependent upon chemical reactions.
5. List the general characteristics of a typical cell.
6. Describe the two methods of cell division.
7. Explain the role of enzymes in metabolic processes.
8. Describe the general characteristics and functions of the four basic tissue types: epithelial, connective, nervous, and muscle.
9. Explain the organs and functions of the 10 major body systems.
10. Use the above knowledge to solve typical clinical problems

Required Lecture & Lab Textbooks and Materials:

1. **Essentials of Anatomy & Physiology**, 4th ed., 2007, by Martini and Bartholomew.
2. **Essentials of Human Anatomy & Physiology Laboratory Manual**, 4th ed., 2009, by E. N. Marieb.

Grading: Final Exam	100 Points
5 Lecture Exams (100 Pts Each)	500 Points
6 Lab Practica (50 Points Each)	300 Points
Attendance and participation	100 Points
25 Homework Ex (4 Pts. Each)	100 Points
Total Class Points	1100 Points

Grade Scale:

A	90 - 100%
B	80 - 89%
C	65 - 79%
D	50 - 64%
F	<50%

Exams: Multiple Choice, Short Answer and Essay. Scantron 882-E for Lecture Exams 1-5, FinalExam. Lab Practica are 50 Identification Questions at 25 Stations.

Materials Required: Scantrons, # 2 Pencil, Dissection Kits, Latex Gloves, Lab Coat and Goggles.

Attendance: Your grade will depend on your active attendance and active participation during lectures. You will be responsible for all information that you miss. Connect with other students in the class that will provide you with the information you have missed due to absence or not paying attention during class. If you are going to miss a class, e-mail me with that information. Practicum cannot be made up if they are missed. Exams cannot be made up if they are missed unless due to illness with a signed M.D.'s note.

Student Learning Outcomes: The student will be able to identify muscle groups as flexors or extensors and explain how they move the joint. The student will be able to identify bones and muscles at the site of an injury and identify the functions affected by the injury and list the sequence of events in fracture repair.

Special Accommodations: If you have a documented disability and wish to discuss academic accommodations, please contact me as soon as possible.

Disclaimer: I reserve the right to change this schedule with advance notice to students.

Drop Dates and Dropping This Class: You signed up for this class. If you decide to drop this class it is your responsibility to do so. If you forget to drop this class you will receive an "F" on your transcript for this class at the end of the semester. Drop dates are posted online and in the catalog. It is your responsibility to know these dates and drop yourself from this class if you wish to do so.

Academic Dishonesty: Will not be tolerated. El Camino's Academic Dishonesty Policies are posted online. If you are caught cheating you will be dismissed from this class and receive an "F" as your final grade.

Extra Credit: There is none.

Office Hours: Tu-Th 11:15AM-12:15PM, M-W 12:15-1:15PM Room NS 111

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