

BIO 32-HUMAN ANATOMY & PHYSIOLOGY II
LECTURE AND LABORATORY
TENTATIVE SCHEDULE

BAKERSFIELD COLLEGE
 SPRING, 2007

I. DEVLIN-KELLY

WEEK	DATES	LECTURE TOPIC	LABORATORY TOPIC
1.	1/22	Intro & Terminology Ch 1 Intro to cells, Ch 3	QUIZ Organization & Terminology Microscope
2.	1/29	Cell & cell ultrastructure, Ch 3 Cell membrane, Ch 3	QUIZ Cellular structure Epithelial tissue
3.	2/5	Mitosis DNA replication & Protein Synthesis Ch 2,3	QUIZ Candy Chromosomes DNA Lab
4.	2/12	TEST I Chemistry, Ch 2 Tissues: epithelial, connective, Ch 4 Integumentary system, Ch 5 2/16 Lincoln's Day	LAB PRACTICAL I Connective tissues Integumentary System
5.	2/19	2/19 Washington's Day-No Classes Integumentary system, Ch 5 Intro to Skeletal system, Ch 6 2/20: LAST DAY TO WITHDRAW WITHOUT A "W"	QUIZ Organization of Skeletal system Structure & Classification of bone Pelvic girdle & lower limb
6.	2/26	Bone tissue structure & development, Ch 6 Appendicular skeleton, Ch 7	QUIZ Pectoral girdle & upper limb
7.	3/5	Axial skeleton, Skull Ch 7	QUIZ Vertebral column & thorax The Skull
8.	3/12	TEST II Joints, Ch 8	LAB PRACTICAL II
9.	3/19	Intro to muscular system, nomenclature, Movements Muscle Tissue Ch 9	QUIZ Body movements Muscle tissue Selected muscles,
10.	3/26	Muscles continued Neuromuscular junction Excitation/contraction coupling Ch 10	QUIZ Muscles of clinical significance
	4/2	SPRING BREAK—NO CLASSES	
11.	4/9	Intro to Nervous system Ch 11 ANS, Ch 16 4/9: LAST DAY TO WITHDRAW	QUIZ Nerve tissue

12.	4/16	TEST III Nervous tissue, Synapse, Action Potential Ch 11	LAB PRACTICAL III Meninges, spinal cord
13.	4/23	Spinal cord, Ch 12 Brain, Ch 13	QUIZ Brain & Cranial nerves
14.	4/30	Brain, continued	QUIZ Brain & Reflex arcs
15.	5/7	Special senses: ear, eye Ch 15	QUIZ The eye The ear
16.	5/14	FINAL EXAM: USUAL CLASS TIME	LAB PRACTICAL IV

**This schedule may be changed at the discretion of the instructor.

Bio 32 Student Learning Outcomes

Domain	Specific Outcomes
Knowledge/ Cognitive	Following the completion of Anatomy & Physiology (B32), students will be able to:
Language of Anatomy	<ul style="list-style-type: none"> •Use proper anatomical terminology to describe body parts, cavities, position, directions, surfaces, and planes.
Homeostasis	<ul style="list-style-type: none"> •Define homeostasis and explain its importance. •Define positive and negative feedback and describe their role in maintaining homeostasis and normal body function.
Basic Chemistry	<ul style="list-style-type: none"> •Describe the arrangement of electrons, neutrons, and protons in an atom and the role that electrons play in chemical bonding. •Distinguish between organic and inorganic compounds. •Describe the basic structure and function of the 4 biological macromolecules that compose all life.
Cell Theory	<ul style="list-style-type: none"> •Identify and describe all major cellular organelles and their primary functions. •Briefly describe the structure of the plasma membrane and explain how various transport processes account for the directional movement of specific substances across it. •Describe the process of the cell cycle and mitosis and explain the importance of mitotic cell division.
DNA	<ul style="list-style-type: none"> •Describe the DNA molecule and Central Dogma (gene to protein, including DNA replication, transcription, and translation). •Explain how the genetic message can be altered through mutations.
Tissues	<ul style="list-style-type: none"> •Name the four major tissue types and their chief subcategories and explain how they differ structurally and functionally. •Give the chief locations of the various tissue types in the body.
Body Membranes	<ul style="list-style-type: none"> •List the general functions of each membrane type and give its location in the body. •Compare the structure (tissue makeup) of the major types of membranes.

Organs & Organ Systems	<ul style="list-style-type: none"> •Name and identify all major organ systems of the human body and their general functions. •Understand the relationship between structure (anatomy) and function (physiology) of selected organs and organ systems. •Name and locate on models the major organs that compose selected organ systems and briefly describe the major functions of each. •Trace the pathway/flow of information or material through selected organ systems. •Understand and describe selected homeostatic imbalances.
Skills/Psychomotor	Following the completion of Anatomy & Physiology (B32), students will be able to:
Teamwork Skills	<ul style="list-style-type: none"> •Work both independently and collaboratively within a clinical team to conduct laboratory exercises and solve problems.
Lab Equipment Skills	<ul style="list-style-type: none"> •Demonstrate knowledge of how to use basic laboratory equipment, computer software, and microscopes.
Lab Safety Skills	<ul style="list-style-type: none"> •Demonstrate a working knowledge of the safety features of the biology laboratory by practicing safe science when doing laboratory exercises.
Attitudes and Behavior/Affective	Following the completion of Anatomy & Physiology (B32), students will be able to:
Appraisal of info. regarding the human body	<ul style="list-style-type: none"> •Retrieve, evaluate, and use information regarding the human body and medicine to make informed decisions about issues relevant to their everyday lives and the world.
BioMedical Ethics	<ul style="list-style-type: none"> • Recognize Bio-ethics issues. Examine and discuss multiple sides of these issues. Formulate a personal stand on an issue based on examination, discussion and evaluation.