

LECTURE OUTLINE

TOPICS HOLE	CHAPTER IN
1. Introduction	
Human physiology and anatomy	1
Elementary chemistry	2
2. Cell Physiology	3, 4
Cell theory	
Cell membranes	
Cell organelles	
Cell reproduction	
Cell metabolism	
3. Skin and the Integumentary System	6
Growth and repair	
Regulation of body temperature	
Skin disorders	
4. Support and Movement	
Skeletal system	7
bone growth and development	
functions	
blood cell formation	
Muscular system	9
muscle contraction	
5. Integration and Coordination	
Nervous system	10, 11
impulse generation and conduction	
synaptic transmission	
functional divisions of the nervous system	
Endocrine system	13
hormones	
control of hormonal secretions	
survey of glands	

6.	Processing and Transport	
	Digestive system	14, 15
	chemical and enzymatic digestion	
	nutrition and metabolism	
	Respiratory system	16
	control of breathing	
	gas exchange	
	transport of gasses	
	Circulatory system	17, 18
	homeostasis	
	blood groups	
	cardiac cycle	
	blood pressure	
7.	Elimination and excretion	20, 21
	Formation of urine	
	Fluid, electrolyte, and acid/base balance	
8.	Somatic and Special Senses	12
9.	Lymphatic System	19
	Formation and function of lymph	
	Immunity	
10.	Life Cycle	22
	Sex cell formation	
	Endocrine control of reproduction	