

Registrar

GRANDE PRAIRIE REGIONAL COLLEGE
DIPLOMA NURSING PROGRAM

COURSE: PZ 261 Elementary Physiology

INSTRUCTOR: Glen Chilton Office (main campus) J223
Telephone 539-2860
Nursing 539-6330

LABORATORY TECHNICIAN: Rick Scott Office J121
Telephone 539-2953

NATURE OF THE COURSE:

PZ 261 considers the operation of the human body. The course is organized to complement Structural Anatomy PE 200.

EVALUATION:

Lecture:

Tests (multiple choice + short answer) 5 @ 6 %	30 %
Comprehensive lecture final examination	40 %

Laboratory:

Tests 3 @ 5 %	15 %
Comprehensive laboratory final test	15 %

100 %

For promotion from year one to year two of the program, a grade of "6" is required in this course.

TEXTBOOKS:

Hole, John W. Jr. 1990. Human Anatomy and Physiology, 5th Ed., Wm. C. Brown Company Publishers.

Hole, John W. Jr. 1990. Laboratory Manual Human Anatomy and Physiology, 5th Ed., Wm. C. Brown Company Publishers.

LECTURE OUTLINE

TOPICS	CHAPTER IN HOLE
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	