JAN 1 5 1997

GRANDE PRAIRIE REGIONAL COLLEGE
NURSING PROGRAM
COURSE OUTLINE - 1996-97

Full Year

COURSE: BI 1621 HUMAN BIOLOGY 1996/97

INSTRUCTOR: PAUL LEMAY OFFICE J224
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LABORATORY TECHNICIAN: AUDREY WELLS OFFICE J115
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NATURE OF THE COURSE:

BI 1621 is a combined elementary human anatomy and physiology course designed for nursing programs. The course covers topics including cells, respiration, genetics, and all body systems. The topics will support an understanding of system homeostasis, pathophysiology, and nursing function.

This course integrates all of the course contents of the former courses, PE 1000 and PZ 1621. Consequently there are four lecture hours and a one hour laboratory per week over two semesters. The course is supplemented by individual study requirements and CDRom materials.

EVALUATION:

Lecture:		
Tests (multiple choice, short answer and class presentations)	3 @ 7% 1 @ 9%	30%
Comprehensive lecture final examination		40%
Laboratory:		
Tests	2 @ 7.5	15%
Comprehensive laboratory final test		15%
		100%

TEXTBOOKS:

Hole, John W. Jr. 1996. Human Anatomy and Physiology, 7th Ed., Wm. C. Brown Company Publishers.

Hole, John W. Jr. 1996. Laboratory Manual Human Anatomy and Physiology, 7th Ed., Wm. C. Brown Company Publishers.

Hole, John W. Jr. 1996. Student Study Guide Human Anatomy and Physiology, 7th Ed., Wm. C. Brown Company Publishers.

LECTURE OUTLINE

TOPICS **CHAPTER IN HOLE**

1. Introduction
   - Human physiology and anatomy 1
   - Characteristics of life
   - Maintenance of life
   - Elementary particles of life 2
   - Levels of organization
   - Organization of the human body
   - Anatomical terminology

2. Cell Anatomy and Physiology
   - Cell theory 3
   - Cell membranes
   - Cell organelles
   - Movement through cell membranes
   - Cell reproduction
   - Cell metabolism 4
     - Process
     - Control of metabolic reactions
     - Energy for metabolism
     - Metabolic pathways
     - Carbohydrate
     - Lipid
     - Protein
     - Nucleic acids

3. Cytology and histology 3, 5

4. Skin and the Integumentary System 6
   - Membranes
   - Skin
   - Accessory organs
   - Growth and repair
   - Regulation of body temperature
   - Skin color
   - Skin disorders

5. Support and Movement
   - Skeletal system 7
     - Bone structure
     - Organization
     - Joints 8
     - Bone growth and development
     - Functions