

**Grande Prairie Regional College  
Department of Science and Technology**

**PZ 1510 Elementary Physiology II  
Course Outline – 2<sup>nd</sup> Year Nursing (CBL)**

**PZ 1510 Elementary Physiology II 3(3-0-0)**

This is an introductory course in physiology for the health sciences. It is available only to students in the Nursing program.

The content of this course follows the topics outlined in the scenarios presented in the second year of the CBL Nursing program. Some of the topics covered will require extra reading / study by the students.

Prerequisite : PZ1500

**Textbook** : Saladin, K.S. (2001), Anatomy and Physiology : The unity of form and Function, 2<sup>nd</sup> ed., WCB / McGraw-Hill, Boston MA  
ISBN 0-07-115547-3

**Resource Person** : Dr. Sean Irwin  
office - J223  
phone - 539-2860 (w)  
- 567-2226 (h)

**Fixed Resource Session** : Tues. / Thurs. - 8:30 – 9:50

<b>Evaluation:</b>	Quiz I	.....15%
	Fall final exam	.....35%
	Quiz II	.....15%
	Winter final exam.....	<u>35%</u>
	Total	100%

**Office Hours** : Monday - 10:00 - 11:20 am  
Wednesday - 10:00 - 11:20 pm  
Friday -10:00 – 11:20 am  
Also by appointment

**PZ 1510 - Elementary Physiology II - Fall 2003**

**Learning Package 2.1.1 - Mrs. White (1 week)**

**Physiology of Osseous Tissue : Ch. 7: 225 – 239**

- Mineral deposition and resorption
- Vitamin D and other hormones
- Bone disorders and fractures
- C.V. - Osteoporosis

## **Learning Package 2.1.2 – Andrew, Maria and Frances (2 week)**

### **Pregnancy and Childbirth : Ch. 28: 1070-71, 1073-76**

- Hormones of pregnancy
- Adjustments to pregnancy
- Childbirth

### **Embryonic and Fetal Development : Ch. 29: 1099 – 1101.**

- Fetal Development

### **The Neonate : Ch. 29: 1101 – 1104.**

- The transitional period
- Adaptations
- Premature Infants

### **Lactation : Ch. 28: 1076 – 1078.**

### **Chromosomes and Heredity : Ch. 4: 145 – 151.**

### **Congenital Anomalies: Ch. 29: 1004 – 1006.**

## **Learning Package 2.1.3 – George (2 weeks)**

### **The Urinary System : Chapter 23: 880 – 881, 886 – 899, 903 - 907.**

- Glomerular filtration
- Tubular resorption and secretion
- Concentration of urine
- Urine storage and elimination

## **Quiz I - Thurs. Oct. 2**

## **Learning Package 2.1.4 - Denny and Cokum (2 weeks)**

### **The Endocrine System : Ch. 17**

- Endocrine Glands
- Hormone classification
- Hormone action
- Synthesis and transport
- Hormone receptors
- Hormone deactivation
- Hormone interactions
- Endocrine disorders
- C.V. - IDDM

## **Fall Final Exam – Thurs. Oct. 23**

**PZ 1510 and NS 1050 - Winter Semester 2004**

**Learning Package 2.2.1 – Leslie (1 week)**

**The Central Nervous System : Chapter 14**

- Processing

**Learning Package 2.2.2 - Mr. Tran (2 weeks)**

**The digestive system : Chapter 25**

- mouth and esophagus
- stomach
- liver, gallbladder, and pancreas
- small intestine
- large intestine
- digestion and absorption
- C.V. -diarrhea

**Quiz II - Wed. Jan. 29th**

**Learning Package 2.2.3 - Norman Tourmay (1 week))**

**The cardiovascular system : Chapter 19**

- heart
- cardiac muscle
- electrical and contractile activity
- C.V. - Stroke

**Learning Package 2.2.4 – Janet (1 week)**

**The cardiovascular system : Chapter 19**

- blood flow and cardiac cycle
- cardiac output
- C.V. – atherosclerosis / myocardial infarction

**Learning Package 2.2.5 – Kathy (1 week)**

**Human Development : Chapter 29**

- Aging

**Final Exam – Wed. Feb. 19th**