

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

**PZ 1510 Elementary Physiology I
Course Outline – 2nd 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. (1998). Anatomy and Physiology : The unity of form and function, WCB / McGraw-Hill, Boston MA
ISBN 0-07-115547-3

Resource Person : Dr. Sean Irwin
office - J223
phone - 539-2860 (w)
- 538 -1278 (h)

Fixed Resource Session : Monday 11:00 – 12:20
Seminar / Lab : Wednesday 4:30 - 5:30

Evaluation:	Mid-term exam I.....20%
	Fall final exam25%
	Midterm exam. II.....20%
	Winter final exam.....35%
	Total 100%

Office Hours : Monday - 2:00 - 3:00 pm
Wednesday - 2:00 - 3:00 pm
Friday - 10:00 – 11:00 am
Also by appointment

PZ 1510 - Elementary Physiology II - Fall Semester

Learning package 2.1.1 - Kayla (1 week)

Sense Organs : Chapter 16

- Hearing and Equilibrium
- Nature of sound
- Physiology of hearing
- Equilibrium
- C V - Deafness
- Pain

Learning Package 2.1.2 – Maria (1 week)

Embryonic and Fetal Development : Chapter 29 pg. 1033 – 1039

- Prenatal nutrition
- Embryonic Membranes
- Fetal Development

The Neonate : Chapter 29 pg. 1040– 1043

- The transitional period
- Circulatory and respiratory adaptations
- Premature Infants
- C.V. – Congenital anomalies

Pregnancy and Childbirth : Chapter 29 pg. 1010-1016

- Prenatal development
- Hormones of pregnancy
- Adjustments to pregnancy
- Childbirth

Lactation : Chapter 29 pg. 1017-1019

Learning Package 2.1.3 - Jack Little (2 weeks)

The Endocrine System : Chapter 17 pg. 600 – 628

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

Midterm I -

Learning Package 2.1.4 - Mrs. White (1 week)

Physiology of Osseous Tissue : Chapter 8 pg. 240 – 247

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

Learning Package 2.1.5 – George (2 weeks)

The Urinary System : Chapter 23 pg. 839 – 851, 852 – 857.

- Glomerular filtration
- Tubular resorption and secretion
- Concentration of urine
- Urine storage and elimination
- C.V. - incontinence

Fall Final Exam –

PZ 1510 - Elementary Physiology II - Winter Semester

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

Midterm II -

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 – The Durands (1 week)

Human Development : Chapter 29

- Aging

Final Exam –