



**DEPARTMENT of SCIENCE**

**COURSE OUTLINE – WINTER 2016**

**PZ1510 (YA2/YB2): Elementary Physiology – 3 (3-0-0) 45 Hours for 15 Weeks**

**INSTRUCTOR:** Dr. Sean Irwin, Ph.D.      **PHONE:** (780) 539-2860

**OFFICE:** J221      **E-MAIL:** [sirwin@gprc.ab.ca](mailto:sirwin@gprc.ab.ca)

**OFFICE HOURS:** Tues. and Thurs. 10 – 11:20 am; Wed. 1 – 2:20 pm

**CALENDAR DESCRIPTION:**

An introduction to human physiology.

Notes: Available only to Nursing students.

**PREREQUISITE(S)/COREQUISITE:** Pre-requisite PZ1500

**REQUIRED TEXT/RESOURCE MATERIALS:**

Saladin, K.S. (2010), Anatomy and Physiology : The Unity of Form and Function, 5th ed., WCB / McGraw-Hill, Boston MA, ISBN 978-0-07-337825-1

**DELIVERY MODE(S):** Lectures: PZ1510 YA2/YB2 Tuesday and Thursday 8:30 – 9:50 am

**COURSE OBJECTIVES:**

1. To gain a further understanding of the structure and function of the human body.
2. To gain an understanding of human physiology that will facilitate future work in the medical field.
3. To develop critical thinking skills with respect to the physiology of the human body.

**LEARNING OUTCOMES:**

Upon successful completion of this course a student will have a working knowledge of the biological basis of the physiology of the human body.

**TRANSFERABILITY:**

Transfer: UA\*, UC\*, AU, AF\*, UL, Other

“This course is part of the block transfer agreement with the University of Alberta in the Collaborative BScN Program. Admission to the fourth year of the Program and registration at the U of A will be contingent upon confirmation by the Faculty of Nursing that the first three years of the Program have been completed with satisfactory academic standing. For promotion to Year 4 at the U of A, a student is required to pass all previous courses and obtain a minimum cumulative GPA of 2.0 on a 4.0 point scale in the first three years of the program. If these conditions are met, the student will be granted a block transfer of work completed at GPRC to the U of A record.”

**\*Warning:** Although we strive to make the transferability information in this document up-to-date and accurate, **the student has the final responsibility for ensuring the transferability of this course to Alberta Colleges and Universities.** Please consult the Alberta Transfer Guide for more information. You may check to ensure the transferability of this course at Alberta Transfer Guide main page <http://www.transferralberta.ca> or, if you do not want to navigate through few links, at <http://alis.alberta.ca/ps/tsp/ta/tbi/onlineSearch.html?SearchMode=S&step=2>

**\*\* Grade of D or D+ may not be acceptable for transfer to other post-secondary institutions. Students are cautioned that it is their responsibility to contact the receiving institutions to ensure transferability**

#### EVALUATIONS:

Quiz I	15%	- In order to defer an exam due to
Fall final exam	35%	illness you will require a medical note.
Quiz II	15%	
Winter final exam	<u>35%</u>	
Total	100%	

#### GRADING CRITERIA:

Please note that most universities will not accept your course for transfer credit **IF** your grade is **less than C-**.

Alpha Grade	4-point Equivalent	Percentage Guidelines	Alpha Grade	4-point Equivalent	Percentage Guidelines
A+	4.0	90-100	C+	2.3	67-69
A	4.0	85-89	C	2.0	63-66
A-	3.7	80-84	C-	1.7	60-62
B+	3.3	77-79	D+	1.3	55-59
B	3.0	73-76	D	1.0	50-54
B-	2.7	70-72	F	0.0	00-49

## **COURSE SCHEDULE/TENTATIVE TIMELINE:**

**Section YA2: Winter term 2016, 22.5 hours in 7.5 weeks**

**Learning Packages – Pierre and Nick (2 weeks)**

**Neuron Pysiology: Chapter 12**

**The Central Nervous System : Chapter 14**

- CNS Function
- Processing
- C.V. Stroke
- C.V. MS, Schizophrenia

**Learning Package - Janet (2 weeks)**

**The cardiovascular system : Chapter 19**

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

**Quiz II – January 28<sup>th</sup>**

**The cardiovascular system : Chapter 19**

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

**Learning Package – Mr. Woo (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

**Human Development : Chapter 29**

- Aging
- C.V. Cancer

**Final Exam – Feb. 25<sup>th</sup>**

**Section YB2: Winter term 2016, 22.5 hours in 7.5 weeks**

**Learning Packages – Pierre and Nick (2 weeks)**

**Neuron Pysiology: Chapter 12**

**The Central Nervous System : Chapter 14**

- CNS Function
- Processing
- C.V. Stroke
- C.V. MS, Schizophrenia

**Learning Package - Janet (2 weeks)**

**The cardiovascular system : Chapter 19**

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

**Quiz II – March 24<sup>th</sup>**

**The cardiovascular system : Chapter 19**

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

**Learning Package – Mr. Woo (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

**Human Development : Chapter 29**

- Aging
- C.V. Cancer

**Final Exam Scheduled by the Registrar's Office**

**STUDENT RESPONSIBILITIES:**

Students are responsible for the course material presented in lectures and assigned readings.

## **STATEMENT ON PLAGIARISM AND CHEATING:**

Cheating and plagiarism will not be tolerated and there will be penalties. For a more precise definition of plagiarism and its consequences, refer to the Student Conduct section of the College Admission Guide at <http://www.gprc.ab.ca/programs/calendar/> or the College Policy on Student Misconduct: Plagiarism and Cheating at <http://www.gprc.ab.ca/about/administration/policies/>

\*\*Note: all Academic and Administrative policies are available on the same page.