



**DEPARTMENT OF SCIENCE**  
**COURSE OUTLINE – FALL 2014**  
**PZ1510 - ELEMENTARY PHYSIOLOGY II**

**INSTRUCTOR:** Dr. Sean Irwin, Ph.D. **PHONE:** 539-2860 (W); 567-2226 (H)

**OFFICE:** J 221 **E-MAIL:** sirwin@gprc.ab.ca

**OFFICE HOURS:** Mon. 10:00 – 11:20 am  
Wed. 1:00 – 2:20 pm  
Thurs. 1:00 – 2:20 pm

**PREREQUISITE(S)/COREQUISITE:** PZ 1500

**REQUIRED TEXT/RESOURCE MATERIALS:**

Saladin, K.S. (2010), Anatomy and Physiology : The Unity of Form and Function, 6th ed., WCB / McGraw-Hill, Boston MA  
ISBN 978-0-07-337825-1

**CALENDAR DESCRIPTION:**

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.

**CREDIT/CONTACT HOURS:** 3 Credits (3-0-0) UT

**DELIVERY MODE(S):** Lectures – Tues. and Thur. 8:30 – 9:50, Rm. H 211

**OBJECTIVES (OPTIONAL):**

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.

**TRANSFERABILITY:** UA, UC, UL, AU, AF

**\*\* 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**

<b>EVALUATIONS:</b>	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%	

**STUDENT RESPONSIBILITIES:**

**STATEMENT ON PLAGIARISM AND CHEATING:**

Refer to the Student Conduct section of the College Admission Guide at [https://www.gprc.ab.ca/files/forms\\_documents/Student\\_Misconduct.pdf](https://www.gprc.ab.ca/files/forms_documents/Student_Misconduct.pdf) or the College Policy on Student Misconduct: Plagiarism and Cheating at [www.gprc.ab.ca/about/administration/policies/](http://www.gprc.ab.ca/about/administration/policies/).

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

**GRADING CRITERIA:**

<b>GRANDE PRAIRIE REGIONAL COLLEGE</b>			
<b>GRADING CONVERSION CHART</b>			
<b>Alpha Grade</b>	<b>4-point Equivalent</b>	<b>Percentage Guidelines</b>	<b>Designation</b>
<b>A<sup>+</sup></b>	<b>4.0</b>	<b>90 – 100</b>	<b>EXCELLENT</b>
<b>A</b>	<b>4.0</b>	<b>85 – 89</b>	
<b>A<sup>-</sup></b>	<b>3.7</b>	<b>80 – 84</b>	<b>FIRST CLASS STANDING</b>
<b>B<sup>+</sup></b>	<b>3.3</b>	<b>77 – 79</b>	
<b>B</b>	<b>3.0</b>	<b>73 – 76</b>	<b>GOOD</b>
<b>B<sup>-</sup></b>	<b>2.7</b>	<b>70 – 72</b>	
<b>C<sup>+</sup></b>	<b>2.3</b>	<b>67 – 69</b>	<b>SATISFACTORY</b>
<b>C</b>	<b>2.0</b>	<b>63 – 66</b>	
<b>C<sup>-</sup></b>	<b>1.7</b>	<b>60 – 62</b>	
<b>D<sup>+</sup></b>	<b>1.3</b>	<b>55 – 59</b>	<b>MINIMAL PASS</b>
<b>D</b>	<b>1.0</b>	<b>50 – 54</b>	
<b>F</b>	<b>0.0</b>	<b>0 – 49</b>	<b>FAIL</b>
<b>WF</b>	<b>0.0</b>	<b>0</b>	<b>FAIL, withdrawal after the deadline</b>

## **COURSE SCHEDULE/TENTATIVE TIMELINE: Section YA2**

### **Learning Package 2.1.1 - Elizabeth Snow (1 week)**

**Muscle Tissue Review: Ch. 11:11.2, .4; Ch. 10: pg. 360 -1**

**Osseous Tissue : Ch. 7: 7.1 - 7.5**

- Bone tissue and histology
- Bone growth
- Physiology of bone tissue.
- Bone disorders and fractures

### **Learning Package – Men’s Health (2 weeks)**

**The Urinary System : Chapter 23**

- Kidney function and anatomy
- Urine formation
- Urine storage and elimination
- Renal disorders

**Quiz I - Thurs. Sept. 25<sup>th</sup>**

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

**The Endocrine System : Ch. 17**

- Endocrine Glands
- Hormone classification
- Hormone action
- Hormone interactions
- Endocrine disorders

### **Learning Package – Lacey, Evan, and Baby Joshua (2 weeks)**

**Embryonic and Fetal Development : Ch. 29: 29.1, .2**

- Fertilization and implantation (review)
- Fetal Development
- The neonate

**Pregnancy and Childbirth : Ch. 28: 28.5**

- Hormones of pregnancy
- Adjustments to pregnancy
- Childbirth

**Lactation : Ch. 28: 28.6**

**Chromosomes and Heredity : Ch. 4: 4.4**

**The Neonate and Birth Defects: Ch. 29: 29.3**

**Midterm – Thurs. Oct. 23<sup>rd</sup>**

## **COURSE SCHEDULE/TENTATIVE TIMELINE: Section YB2**

### **Learning Package 2.1.1 - Elizabeth Snow (1 week)**

**Muscle Tissue Review: Ch. 11:11.2, .4; Ch. 10: pg. 360 -1**

**Osseous Tissue : Ch. 7: 7.1 - 7.5**

- Bone tissue and histology
- Bone growth
- Physiology of bone tissue.
- Bone disorders and fractures

### **Learning Package – Men’s Health (2 weeks)**

**The Urinary System : Chapter 23**

- Kidney function and anatomy
- Urine formation
- Urine storage and elimination
- Renal disorders

**Quiz I - Thurs. Nov. 17<sup>th</sup>**

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

**The Endocrine System : Ch. 17**

- Endocrine Glands
- Hormone classification
- Hormone action
- Hormone interactions
- Endocrine disorders

### **Learning Package – Lacey, Evan, and Baby Joshua (2 weeks)**

**Embryonic and Fetal Development : Ch. 29: 29.1, .2**

- Fertilization and implantation (review)
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- Hormones of pregnancy
- Adjustments to pregnancy
- Childbirth

**Lactation : Ch. 28: 28.6**

**Chromosomes and Heredity : Ch. 4: 4.4**

**The Neonate and Birth Defects: Ch. 29: 29.3**

**Midterm – Thurs. Dec. 11<sup>th</sup>**