



DEPARTMENT OF SCIENCE
COURSE OUTLINE – PZ 1510
ELEMENTARY PHYSIOLOGY II – FALL 2011

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
Tues. 1:00 – 2:20 pm
Fri. 11:30 – 1:00 pm

PREREQUISITE(S)/COREQUISITE: PZ 1500

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

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. J 229

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

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

STUDENT RESPONSIBILITIES:

STATEMENT ON PLAGIARISM AND CHEATING:

Please refer to pages 49-50 of the College calendar regarding plagiarism, cheating and the resultant penalties. These are serious issues and will be dealt with severely.

GRADING CRITERIA:

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

COURSE SCHEDULE/TENTATIVE TIMELINE: Section YA2

Learning Package 2.1.1 - Elizabeth Snow (1 week)

Osseous Tissue : Ch. 7: 7.1, .2, .4, and .5

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

Learning Package – Hank and Henry (2 weeks)

The Urinary System : Chapter 23: 896 – 919, 921-924.

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

Quiz I - Thurs. Sept. 29 – 8:30 am

Learning Package - Denny and Cokum (2 weeks)

The Endocrine System : Ch. 17

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

Learning Package – Byron, Becky and Baby (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, .6

- 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

Fall Final Exam – Tues. Oct. 18

COURSE SCHEDULE/TENTATIVE TIMELINE: Section YB2

Learning Package 2.1.1 - Elizabeth Snow (1 week)

Osseous Tissue : Ch. 7: 7.1, .2, .4, and .5

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

Learning Package – Hank and Henry (2 weeks)

The Urinary System : Chapter 23: 896 – 919, 921-924.

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

Quiz I - Thurs. Nov. 15th – 8:30 am

Learning Package - Denny and Cokum (2 weeks)

The Endocrine System : Ch. 17

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

Learning Package – Byron, Becky and Baby (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, .6

- 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

Fall Final Exam – Scheduled by the registrar's office