



DEPARTMENT of SCIENCE

COURSE OUTLINE – WINTER 2016

PZ1515 (A3/B3): Pathophysiology – 3 (3-0-0) 45 Hours for 15 Weeks

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

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

CALENDAR DESCRIPTION:

The focus is on the application of human anatomy and physiology to the concepts of pathophysiology. Course content will be addressed within the context of underlying disease process and alterations in health.

Note: Available only to Nursing students.

PREREQUISITE(S)/COREQUISITE: NS 1500

REQUIRED TEXT/RESOURCE MATERIALS:

McCance, K.L. and Heuther, S. (2015) Pathophysiology: The Biologic Basis for Disease in Adults and Children, 7th Ed., Elsevier-Saunders, St. Louis, MO, ISBN 9780323088541

DELIVERY MODE(S): Lectures: PZ1515 A3 Tuesday and Thursday 11:30 – 12:50 pm, H211
PZ1515 B3 Tuesday and Thursday 1:00 – 2:20 pm, H211

COURSE OBJECTIVES:

1. To facilitate an in-depth understanding of the normal functions of the human body.
2. To make links between normal body function and structures.
3. To be able to understand disease as disordered physiology.
4. To foster the development of critical thinking skills.

LEARNING OUTCOMES:

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

TRANSFERABILITY:

“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.transferalberta.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:

Exam I	25%	- In order to defer an exam due to
Exam II	35%	illness you will require a medical note.
Online Quizzes	5%	
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:

Winter term 2016, 45 hours in 15 weeks.

Week	Topic	Textbook Chapter
1	Altered Cell and Tissue Biology	2
2	Fluid and Electrolytes and Acid-Base Balance	3
	Genes and Genetic Diseases	4
3	Genetic Diseases	5
	Alterations in Immune Function	9
4	Pathophysiology of Cancer	12, 13
5	Disorders of Neurologic Function	17
	Exam I – 25%	Units 1 -5
6	Disorders of Neurologic Function	18
	Disorders of Neuropsychological Function	19
7	Winter Break Feb. 16th – 19th	
8	Alterations in the Endocrine System	22
	Alterations in the Female Reproductive System	24
	Alterations in the Male Reproductive System	25
	Alterations in Blood Coagulation and Blood Cells	

9		28, 29
10	Alterations in Cardiovascular Function	32
11	Alterations in Pulmonary Function Exam II – 35%	35 Units 6 -10
12	Alterations in Renal and Urinary Tract Function	38
13	Alterations in Digestive Function	41
14	Alterations in Musculoskeletal Function	44
15	Alterations in the Integumentary System	46
	Final Exam (Scheduled by the Registrar’s Office) - 35%	Units 11 - 15

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.