



NURSING 311(L01)

Pathophysiology

**BACHELOR OF NURSING
BNRT TRACK PROGRAM**

COURSE OUTLINE

Fall Session 2009

Class Day(s)/Time:

Friday 1300 - 1550

Dates:

September 8 to December 8, 2009

Classroom:

EDC 179

Course Instructor(s):

Theresa Green, RN PhD
Faculty of Nursing
Office: PF 2210
Telephone: (403) 220-2464
Email: greentl@ucalgary.ca

Office Hours:

By Appointment

CALENDAR DESCRIPTION

An overview of human pathophysiological concepts at the cellular, organ and systems level.

DETAILED COURSE DESCRIPTION

Welcome to Nursing 311: *Pathophysiology* introduces the student to disruptions in the normal body functioning in individuals, primarily adults. Objective and subjective manifestations of common health problems resulting from environmental, genetic, and stress-related maladaptations are assessed and analyzed. Assessment findings, diagnostic testing, and interventions for specific health problems are discussed. Pharmacologic treatments for specific health problems are explored.

The overall intent of NURS 311 is to facilitate ongoing critical thinking and analysis of pathophysiological concepts.

COURSE OBJECTIVES

Students in Nursing 311 will be provided with opportunities to:

- Apply principles of normal anatomy and physiology of human body systems to the pathophysiologic processes of common health problems.
- Identify concepts, principles, and responses related to pathophysiologic processes that result in disease.
- Discuss clinical manifestations of selected disease processes and health problems.
- Identify appropriate pharmacological treatment of specific diseases.
- Discuss the nurse's role and responsibility for assessment of individuals experiencing health problems that result in pathophysiologic alterations.

The learner is expected to apply previously gained knowledge from anatomy and physiology as a pre-requisite to classroom lectures. Students must have access to a current anatomy and physiology text as a necessary resource for this course.

The following text is currently used in Zoology 269: Martini, F. & Bartholomew, E. (2007). *Essentials of anatomy & physiology* (4th ed.). New York: Prentice Hall.

COURSE REQUIREMENTS

In order to be successful in Nursing 311, students will complete the following requirements:

Quizzes: 2 @ 10% ea	20%	Sept 25 & Nov 6, 2009
Midterm Exam	35%	Oct. 16, 2009
Final Exam	45%	Dec. 11-21, 2009

Minimum passing grade for this course is D.

All exams will be multiple choice/true or false. Each exam will focus on the content covered prior to that exam: exam content is **NOT CUMULATIVE**.

- Exam content will cover information provided in the lectures, on power point handouts, and the designated readings (not necessarily covered in class).
- Midterm exam is written in the first half of class time; lecture follows in second half
- Quizzes are take-home, open-book. Quizzes are to be completed on-line via Blackboard and must be submitted by 1300 on the due date. Blackboard portal will be locked after

1300 & you will be unable to submit. If unable to complete the quizzes on-line, please discuss with me after our first class. Quiz material **will be** included in next scheduled exam

FACULTY OF NURSING UNDERGRADUATE GRADING SCALE

If the percentage on your assignment is:	The grade on your assignment is:	The weighted grade points will be taken from:	If the total for all assignments is:	Your final grade will be:	And the GPA for the course will be:
98.0 – 100	A+	4.0	3.95-4.00	A+	4.0 Outstanding -- exceptional analysis and synthesis of subject matter.
93.0 – 97.9	A	3.9	3.85-3.94	A	4.0 Excellent -- superior performance, showing comprehensive understanding of subject matter.
88.0 – 92.9	A-	3.7	3.50-3.84	A-	3.7
83.5 – 87.9	B+	3.3	3.15-3.49	B+	3.3
78.0 – 83.4	B	3.0	2.85-3.14	B	3.0 Good -- clearly above average performance with knowledge of subject matter generally complete.
73.5 – 77.9	B-	2.7	2.50-2.84	B-	2.7
69.0 – 73.4	C+	2.3	2.15-2.49	C+	2.3
63.5 – 68.9	C*	2.0	1.85-2.14	C	2.0 Satisfactory - basic understanding of the subject matter. [Minimum passing grade for NURS 203/211.]
59.0 – 63.4	C-	1.7	1.50-1.84	C-	1.7
54.5 – 58.9	D+	1.3	1.15-1.49	D+	1.3
50.0 – 54.4	D	1.0	0.50-1.14	D	1.0 [Minimum passing grade for theory courses.]
49.9 or less	F	0	0.00-0.49	F	0.0

Approved by Faculty of Nursing, Executive Committee of Council, June 9, 2005 [Editorial Revisions: August 7, 2009]

WITHDRAWAL DEADLINE

The last date for withdrawal from this course without penalty is September 18, 2009.

STUDENT MISCONDUCT

Plagiarism is a serious offence. The penalty is academic probation or requirement to withdraw in addition to an F on the assignment and possibly an F in the course as a whole.

While it is recognized that scholarly work often involves reference to the ideas, data and conclusions of other scholars, intellectual honesty requires that such references be explicitly and clearly noted.

Plagiarism occurs not only when direct quotations are taken from a source without specific acknowledgement but also when original ideas or data from the source are not acknowledged.

For further information on Student Misconduct Policies, please refer to the official online University of Calgary Calendar 2009-2010, Academic Regulations, K. Student Misconduct: www.ucalgary.ca/pubs/calendar/

Intellectual honesty is viewed most seriously at the University of Calgary and compliance with standards of intellectual honesty is an expectation.

ACADEMIC WRITING

The University supports the belief that throughout their University careers, students should be taught how to write well; therefore, written assignments in this course will be evaluated based on the required elements as well as quality academic writing.

For further information, please refer to the official online University of Calgary Calendar 2009-2010, Academic Regulations, E. Course Information, E.2 Writing Across the Curriculum: www.ucalgary.ca/pubs/calendar/

EXAMINATION AND TESTS

For detailed information regarding Examinations and Tests, please refer to the official online University of Calgary Calendar 2009-2010, Academic Regulations, G. Examinations and Tests: www.ucalgary.ca/pubs/calendar/

1. Final examinations are scheduled by the Registrar's Office, University of Calgary.

The exam period is posted in the University of Calgary Calendar. A final exam can be scheduled anytime during this time period. Students must be available for examinations up to the last day of the examination period. [NOTE: This policy may not apply to some BNAT block courses which finish mid-semester.]

2. Deferred Examinations

A student who becomes ill prior to the examination and is unable to write the examination at the scheduled time will notify the course instructor. Please call the course instructor (voice mail) and leave a message stating the date and time you called, reason for missing the scheduled examination and a phone number where you can be reached so that arrangements can be made for you to write a deferred examination. You may be expected to submit a doctor's certification prior to writing the deferred examination. For further information regarding Deferral of Final Examinations Policies, please refer to the official online University of Calgary Calendar 2009-2010, Academic Regulations, G. Examinations and Tests, G.6 Deferral of Final Examinations: www.ucalgary.ca/pubs/calendar/

REAPPRAISALS AND APPEALS

For information on reappraisals and appeals, refer to the official online University of Calgary Calendar 2009-2010, Academic Regulations, I. Reappraisal of Grades and Academic Appeals: www.ucalgary.ca/pubs/calendar/

Please note the 15 day timeline from the receipt of a mark and a request for reappraisal and/or appeal to the Associate/Assistant Dean, Undergraduate Programs.

ACADEMIC ACCOMODATIONS

It is the student's responsibility to request academic accommodations. If you are a student with a documented disability who may require academic accommodation, you must officially register with the Disability Resource Centre. Students who have not registered with the Disability Resource Centre are not eligible for formal academic accommodation. You are also required to discuss your needs with your instructor within the first week of the start of this course.

Further information can be obtained at: www.ucalgary.ca/drc/ or by calling 403-220-8237.

REQUIRED TEXTBOOKS/RESOURCES

The following required textbooks and reading packages are available for purchase at the University of Calgary Bookstore: **Huether & McCance (2008): *Understanding Pathophysiology* (4th ed.). St. Louis: Mosby.**

Other Resources:

Website Resources: Refer to website: www.elsevier.ca, student portal. The CD accompanying the text also offers practice quiz questions and animations to reinforce visual learning.

Faculty of Nursing Website: <http://www.ucalgary.ca/nu/>

Blackboard: Please post any general class content questions on the BB discussion board (Questions for Teri); I will endeavor to respond to the class within 48 hours.

Other Resource Texts: (located in the Nursing Learning Commons)

Fluids & electrolytes made incredibly easy (2nd ed.). (2001). Springhouse, PA: Springhouse.

Pathophysiology made incredibly easy (3rd ed.).(2006). Springhouse, PA: Springhouse.

Braun, C. A. & Anderson, C. M. (2007). *Pathophysiology: Functional alterations in human health*. Philadelphia: Lippincott, Williams, & Wilkins (U of C library).

Class Policies/Expectations

Email policy: I will attempt to respond to emails within 48 hours, but will not reply on a weekend unless 'URGENT' is written on the subject line. Please contact me via Blackboard email.

Examination Policy: A student who becomes ill prior to the examination and is unable to write the examination at the scheduled time will notify the course coordinator prior to the scheduled examination time. Please call and speak to the course coordinator (Dr. Green) or if the course coordinator is unavailable, leave a message stating the date and time you called, reason for missing the scheduled examination and a phone number where you can be reached so that arrangements can be made for you to write a deferred examination. You will be expected to submit a doctor's certificate prior to writing the deferred examination.

Classroom Norms & Expectations: Based on student evaluations and the course professors' experiences, the following are basic ground rules for Nursing 311:

- Questions and discussion are strongly encouraged.
- In-class attendance is expected; exams will be based on content from class lectures as well as text readings.
- Mutual respect and professional behavior between students and faculty members (including guest lecturers) is expected.
- Persistent and unnecessary talk by students during lectures will not be permitted. If students continue with disruptive behaviors, the following action will be taken: 1) the student will be asked to leave the class, or 2) if a student refuses to leave the class, the professor will leave the class.
- Behavior that constitutes non-academic misconduct (see on-line Undergraduate University Calendar) will be documented and referred to the Dean for further action.

General Comments

- Not all guest lecturers will make their power point available for posting prior to their scheduled class – this is instructor preference and not negotiable. Power point slides will therefore be posted ASAP before or after the class by the course coordinator, when provided.
- There will be a 15-minute break approximately ½-way through each class session.

LECTURE SCHEDULE and READINGS*
Fridays 13:00 – 15:50
EDC 179

TOPIC	DATE	FACULTY	Chapter Readings	Exams
Introduction to Pathophysiology Fluids & Electrolytes/Acid-Base Balance	Sept 11	Dr. Teri Green Dr. Rankin	- 4, 19 & 20	
Hematology Alterations in Respiratory Function	Sept 18	Dr. Green	4 25-26	
Infection, Immunity, & Inflammation	Sept 25	Dr. Rankin	5-8	Quiz 1 due
Alterations in Neural Function	Oct 2	Dr. Green	17-20	
Oncology	Oct 9	Dr. Plummer	9-10	
Alterations in Renal Function**	Oct 16	Dr. Plummer	28-29	Midterm Exam 1HR 15 MIN
Alterations in Musculoskeletal Functioning	Oct 23	Dr. Rankin	36-39	
Alterations in Hepatobiliary/GI	Oct 30	Dr. Seneviratne	33-34	
Cardiovascular Function: Risk Factors, Atherosclerosis, and BP	Nov 6	Dr. Then	22	Quiz 2 due
READING DAYS – NO LECTURES	Nov 11-15			
Cardiovascular Function: Acute Coronary Syndrome and Heart Failure	Nov 20	Dr. Then	23	
Cardiovascular Function: Circulatory Shock	Nov 27	Dr. Then	23	
Diabetes/Obesity	Dec 4	Dr. Watson	17-18	
Closing remarks		Dr. Green		
FINAL EXAM	Dec 11-21			Final Exam 2HR 30MIN

Note:

* Schedule subject to change depending on availability of guest lecturers – any changes will be communicated via Blackboard announcement.

** Content of this class will be included on the next scheduled exam. Midterm is written in first ½ of class followed by a 15 minute break, and a guest lecturer in the last ½ of the scheduled class time.