



**NURSING 311**  
*Pathophysiology*

**BACHELOR OF NURSING  
ACCELERATED TRACK PROGRAM**

**COURSE OUTLINE**

**SPRING 2010**

**Class Day(s)/Time:** Monday, Wednesday – 1300-1550

**Dates:** May 3, 2010 – June 16, 2010

**Classroom:** A 167

**Course Instructor:** **Dr. Cydnee Seneviratne**  
Assistant Professor  
Faculty of Nursing  
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**Office Hours:** By Appointment

## **CALENDAR DESCRIPTION**

This course provides 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 pathophysiological 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:

<b>Midterm Exam #1</b>	<b>30%</b>	<b>May 17, 2010</b>
<b>Midterm Exam #2</b>	<b>30%</b>	<b>June 2, 2010</b>
<b>Final Exam</b>	<b>40%</b>	<b>TBA by the Registrar</b>

**Minimum passing grade for this course is D.**

All exams will be multiple choice. Each exam will focus on the content covered prior to that exam: exam content is **NOT CUMULATIVE**, this includes the final exam.

- Exam content will cover information provided in the lectures, on power point handouts, and the designated readings (not necessarily covered in class).
- Midterm exams are written in the first half of class time; lecture follows in second half

## FACULTY OF NURSING UNDERGRADUATE GRADING SCALE

<b>If the percentage on your assignment is:</b>	<b>The grade on your assignment is:</b>	<b>The weighted grade points will be taken from:</b>	<b>If the total for all assignments is:</b>	<b>Your final grade will be:</b>	<b>And the GPA for the course will be:</b>
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 June 17, 2010.**

### **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/](http://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/](http://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/](http://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/](http://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/](http://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/](http://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](http://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 or email the course professor who will endeavour to respond within 48 hours.

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

*Fluids & electrolytes made incredibly easy* (2<sup>nd</sup> ed.). (2001). Springhouse, PA: Springhouse.

*Pathophysiology made incredibly easy* (3<sup>rd</sup> 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 24 hours. Please contact me via my email – [ccsenevi@ucalgary.ca](mailto:ccsenevi@ucalgary.ca).

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, 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 behaviour 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 behaviours, 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.
- Behaviour that constitutes non-academic misconduct (see on-line Undergraduate University Calendar) will be documented and referred to the Dean for further action.
- Please switch off your cell phone before the class starts, this includes iPod and all other communication devices.
- Please do not view web sites or on line communication sites (Facebook, MSN Messenger, and Twitter) on your laptop during class other than the PowerPoint lecture.

General Comments

- Not all guest lecturers will make their power point available for posting prior to their scheduled class. Power point slides will therefore be posted before or after the class by the course coordinator, when provided.
- There will be a 15-20 minute break approximately ½-way through each class session.

**LECTURE SCHEDULE and READINGS\***  
**Monday, Wednesday – 1300-1550**  
**A 167**

<b>TOPIC</b>	<b>DATE</b>	<b>FACULTY</b>	<b>Chapter Readings</b>	<b>Exams</b>
Introduction to Pathophysiology Diabetes/Obesity	May 3	Dr. Seneviratne Dr. Watson	17 & 18	
Acid Base Balance	May 5	Dr. Rankin	4	
Infection, Immunity, & Inflammation	May 10	Dr. Rankin	5, 6, 7, & 8	
Alterations in Respiratory Function	May 12	Dr. Green	25 & 26	
Hematology**	May 17	Dr. Plummer	19 & 20	<b>MIDTERM EXAM #1</b>
Alterations in Neurologic Function	May 19	Dr. Seneviratne	12, 14 & 15	
<b>Victoria Day - Holiday</b>	<b>May 24</b>			<b>NO CLASS</b>
Alterations in Musculoskeletal Functioning	May 26	Dr. Rankin	36 & 37	
Alterations in Hepatobiliary and GI Functioning	May 31	Dr. Seneviratne	33 & 34	
Alterations in Renal Function**	June 2	Dr. Plummer	28 & 29	<b>MIDTERM EXAM #2</b>
Cardiovascular Function; Blood Pressure, Risk factors, Atherosclerosis	June 7	Dr. Then	22 & 23	
Cardiovascular Function: Acute Coronary Syndrome and Heart Failure	June 9	Dr. Then	22 & 23	
Cardiovascular Function: Circulatory Shock	June 14	Dr. Then	22 & 23	
Oncology Closing Remarks	June 16	Dr. Plummer Dr. Seneviratne	9 & 10	<b>FINAL EXAM TBA by the Registrar</b>



**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.