



**School of Arts & Science  
BIOLOGY DEPARTMENT**

**BIOL 253-section  
Pathophysiology for Nursing 2  
Semester/Year, eg, 2007F or 2007Q1**

## **COURSE OUTLINE**

The Approved Course Description is available on the web @ \_\_\_\_\_

Ω Please note: this outline will be electronically stored for five (5) years only.  
It is strongly recommended students keep this outline for your records.

### **1. Instructor Information**

(a)	Instructor:	Ahmed Vawda		
(b)	Office Hours:			
(c)	Location:	F342D		
(d)	Phone:	370-3479	Alternative Phone:	
(e)	Email:	Vawda@camosun.bc.ca		
(f)	Website:			

### **2. Intended Learning Outcomes**

(No changes are to be made to this section, unless the Approved Course Description has been forwarded through EDCO for approval.)

Upon completion of this course the student will be able to:

1. With reference to neurological, genitourinary, gastrointestinal, musculoskeletal and integumentary disorders, explain how and why normal physiology is altered in the pathogenesis of specific diseases.
2. Correlate disease with treatment and nursing management in one's patients.
3. Explain in lay terms the major features of a patient's disease to the patient.

### **3. Required Materials**

#### **REQUIRED TEXTBOOKS**

Porth, C.M. and Matfin, G. (2008). *Pathophysiology. Concepts of Altered Health States*. 8<sup>th</sup> edition Lippincott Williams & Wilkins.

#### **OPTIONAL TEXTBOOK**

Kipp, B. and Kirk, J.A. (2008). Study Guide for *Pathophysiology. Concepts of Altered Health States* 8<sup>th</sup> edition. Lippincott Williams & Wilkins.

(See nursing applications course package for details of other required textbooks)

### **OTHER RESOURCES**

Course website: <http://vawda.disted.camosun.bc.ca>

#### 4. Course Content and Schedule

(Can include: class hours, lab hours, out of class requirements and/or dates for quizzes, exams, lectures, labs, seminars, practicums, etc.)

The following is a **tentative** schedule of lectures. Changes may become necessary depending on progress in class.

Week	Date	Lecture Topic
1	January 5 – 9	Gastrointestinal Disorders
2	January 12 - 16	Gastrointestinal Disorders
3	January 19 – 23	Gastrointestinal Disorders
4	January 26 – 30	Gastrointestinal Disorders Respiratory Disorders
5	February 2 – 6 <b>February 2 (16h30 – 17h30)</b>	<b>Respiratory Disorders</b> <b>Test 1</b>
6	February 9 - 13	Respiratory Disorders
7	February 16 – 20 <b>February 19 and 20</b>	Respiratory Disorders <b>Reading Break</b>
8	February 23 – 27	Urinary / Genital disorders
9	March 2 – 6 <b>March 2</b>	Urinary / Genital disorders <b>Client profile assignment due</b>
10	March 9 – 13 <b>March 9 (16h30 – 17h45)</b>	Urinary / Genital disorders <b>Test 2</b>
11	March 16 – 20	Urinary / Genital disorders
12	March 23 – 27	<b>Integumentary disorders</b>
13	March 30 – April 3	Musculoskeletal disorders
14	April 6 – 9 April 10	Musculoskeletal disorders Good Friday

15 / 16	April 13	Easter Monday
	April 14 – 22	Final Examination

## **COURSE CONTENT**

### **GASTROINTESTINAL DISORDERS**

#### **Inflammatory disorders**

Appendicitis

Peritonitis

#### **Inflammatory bowel disease**

Ulcerative colitis

Crohn's disease

#### **Irritable bowel syndrome**

Diverticular disease (**self-study**)

#### Herniations

Hiatus hernia

Inguinal hernia

#### Peptic ulcer

#### **Hepatitis**

#### **Cirrhosis**

#### **Portal hypertension, Ascites**

#### Cholelithiasis

#### Pancreatitis

#### **Infant disorders**

Cleft lip and cleft palate (**self-study**)

Pyloric stenosis (**self-study**)

Gastro-esophageal reflux (**self-study**)

Tracheo-esophageal fistula

Hirschprung's disease

Intussusception

#### **Cancers**

Colorectal (**self-study**)

Liver

Pancreas

### **RESPIRATORY DISORDERS**

Chronic obstructive pulmonary disease (COPD)

asthma

chronic bronchitis

emphysema

Disorders of lung inflation

atelectasis

pleural effusion

- Pulmonary vascular disorders
  - pulmonary edema
  - pulmonary embolism
  - pulmonary hypertension
  - acute respiratory distress syndrome (ARDS)
- Respiratory failure
- Respiratory tract infections
  - the common cold and rhinosinusitis (**self-study**)
  - influenza
  - pneumonia
  - pulmonary tuberculosis (**self-study**)
- Lung cancer
- Cystic fibrosis

## URINARY AND GENITAL DISORDERS

### *Male*

- Benign prostatic hyperplasia (BPH)
- Prostate cancer

### **Female**

- Menstrual disorders (self-study)**
- Pelvic inflammatory disease (PID)
- Cancers
  - Breast
  - Ovary
  - Uterus
  - Cervix

### *Renal*

- Renal failure
- Pyelonephritis
- Glomerulonephritis
- Urinary tract infection (UTI)
- Renal calculi
- Urinary incontinence
- Cancers
  - Renal (**self-study**)
  - Bladder (**self-study**)

### **Sexually transmitted diseases**

- Genital herpes
- Genital warts
- Syphilis
- Chlamydia
- Gonorrhea
- HIV / AIDS

## INTEGUMENTARY DISORDERS

## Eczema and Dermatitis (self-study)

Cellulitis

Psoriasis

**Skin cancer**

### MUSCULOSKELETAL DISORDERS

Fractures

Osteoporosis

Gout

**Osteoarthritis**

Rheumatoid arthritis

Systemic lupus erythematosus (self-study)

**Muscular dystrophy**

Bone cancer

Information on self-study topics can be found in your textbook. Guidance on how to approach each self-study topic will be posted on the course website.

## 5. Basis of Student Assessment (Weighting)

*(Should be linked directly to learning outcomes.)*

### EVALUATION

Test 1 (February 2 <sup>nd</sup> 16h30 to 17h30)	20%
Test 2 (March 9 <sup>th</sup> 16h30 to 17h45)	25%
Assignment (final submission date: March 2 <sup>nd</sup> )	20%
Comprehensive Final exam (college exam period)	35%

**Note that writing all exams and submission of completed assignments is compulsory. Even though a final course mark of 60% and above might be achieved, if all the above activities are not satisfactorily completed, an F grade will be assigned for the course.**

Tests and exams will include both the pathophysiology and nursing applications components of the course. However, the overall weighting will reflect the disparity in number of lectures for each component, with nursing applications comprising approximately 33% of total evaluation. While some examination questions will require return of factual information, others will involve interpretation and assimilation of information often based on clinical scenarios. If you wish to practice working through clinical scenarios, refer to your textbooks and the accompanying CDs.

## 6. Grading System

*(No changes are to be made to this section, unless the Approved Course Description has been forwarded through EDCO for approval.)*

### Standard Grading System (GPA)

Percentage	Grade	Description	Grade Point Equivalency
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90-100	A+		9
85-89	A		8
80-84	A-		7
77-79	B+		6
73-76	B		5
70-72	B-		4
65-69	C+		3
60-64	C		2
50-59	D	Minimum level of achievement for which credit is granted; a course with a "D" grade cannot be used as a prerequisite.	1
0-49	F	Minimum level has not been achieved.	0

### Temporary Grades

Temporary grades are assigned for specific circumstances and will convert to a final grade according to the grading scheme being used in the course. See Grading Policy E-1.5 at [camosun.ca](http://camosun.ca) for information on conversion to final grades, and for additional information on student record and transcript notations.

Temporary Grade	Description
I	<i>Incomplete:</i> A temporary grade assigned when the requirements of a course have not yet been completed due to hardship or extenuating circumstances, such as illness or death in the family.
IP	<i>In progress:</i> A temporary grade assigned for courses that, due to design may require a further enrollment in the same course. No more than two IP grades will be assigned for the same course. (For these courses a final grade will be assigned to either the 3 <sup>d</sup> course attempt or at the point of course completion.)
CW	<i>Compulsory Withdrawal:</i> A temporary grade assigned by a Dean when an instructor, after documenting the prescriptive strategies applied and consulting with peers, deems that a student is unsafe to self or others and must be removed from the lab, practicum, worksite, or field placement.

## 7. Recommended Materials or Services to Assist Students to Succeed Throughout the Course

### LEARNING SUPPORT AND SERVICES FOR STUDENTS

There are a variety of services available for students to assist them throughout their learning. This information is available in the College calendar, at Student Services or the College web site at [camosun.ca](http://camosun.ca).

### STUDENT CONDUCT POLICY

There is a Student Conduct Policy **which includes plagiarism**. It is the student's responsibility to become familiar with the content of this policy. The policy is available in each School Administration Office, at Student Services and on the College web site in the Policy Section.

## ADDITIONAL COMMENTS AS APPROPRIATE OR AS REQUIRED

Biology 253 is the second half of a two-semester course for students in the second year of the Bachelor of Science in Nursing Program. The course focuses on the basic concepts of pathophysiology that are used to define dysfunction of the major organ systems.

This document contains important information specifically on the pathology part of the course. Read through it carefully and take note of directives and other advisory information. The second component of the course is nursing applications, for which you will receive a separate course package. The course is taught jointly by Faculty from Biology and Nursing.

Biology 253 integrates both pathophysiology and nursing applications. The intent is to enable students to apply theoretical knowledge to nursing practice. Use of diagnostic tests, some pharmacology and treatment regimes will be included with each unit of study.

***A good prior understanding of the physiology and associated anatomy of the organ systems being discussed is essential for success in this course, as this forms the basis for studying pathophysiology. There will be no time to review or re-teach physiology and anatomy in class. You must review this information on your own before commencement of lectures on the appropriate organ system. While this is important for all students in class, it is particularly so for students who might have completed anatomy and physiology more than a year or two ago.***

During the course, you will obtain information from several sources including lectures, class discussions, textbooks, websites, client profiles, current journal articles and clinical practice. Do not rely exclusively on any one, or only some of these sources. Attending lectures regularly is necessary to succeed in this course. Relying exclusively on class notes obtained from a colleague or through other means, will generally **NOT** ensure success in this course because important discussion occurs in class to supplement the notes. This course outline lists the various topics that will be studied in the pathophysiology part of the course. You are encouraged to review these topics in the textbook before classes and to consolidate information obtained in lectures with that in the textbook after each class. **Some of the topics involve self-study (indicated in the outline) and will not be taught in class. Self-study topics are the student's responsibility and are examinable.** All required information on self-study topics is available in the prescribed textbooks. Guidelines on how to approach each topic will be posted on the course website.

Students often find this course challenging because it is both content and concept driven. There is a large volume of information to deal with. In addition, the course involves skills that some may not be adequately experienced in e.g. critical thinking, problem solving, integrating and assimilating information, and working with clinical scenarios. Since these skills develop with experience, applying them regularly to course content is important. Your text books are good resources for clinical scenarios. Refer to the CD ROM and websites accompanying the books.

**Any student not enrolled in a full course load for the current semester MUST arrange to meet with the Instructor in the first week of term.**

*Active cell phones are a nuisance and distraction to all members of the class, including the Instructor. Biology 253 is a “**cell phone-free**” class. You are required to **TURN OFF** all cell phones before commencement of class. Failure to comply with this class rule would be considered a serious infringement and can lead to further action in terms of the College’s Academic Conduct Policy.*