



Nursing (NURS) 316

Review of Pathophysiology and Pharmacology for BN Practice I

(Revision 3)

Status:

Replaced with new revision, see the [course listing](#) for the current revision

Delivery mode:

Individualized study online with eText . Delivered via Brightspace.

Credits:

3

Area of study:

Applied Study

Prerequisites:

Post-LPN BN program student, Professor approval required, BIOL 235

Precluded:

None

Challenge:

NURS 316 is not available for challenge.

Faculty:

[Faculty of Health Disciplines](#)

Notes:

Follow directions on the [[Undergraduate Course Registration](#)] form to register in the course. Online course materials cannot

be accessed prior to your course contract start date.

Overview

Nursing 316 Review of Pathophysiology and Pharmacology for BN Practice 1 provides an integrated review of the pathology of disease and pharmacological interventions. This course includes the foundation of pathophysiology and pharmacology related to: cell and tissue function; integrative body functions; hematopoietic function; infection and Immunity; circulatory function; and respiratory function.

Outline

NURS 316 comprises seven units. Each unit includes recommended readings, and related learning activities.

- Unit 1: Basic Foundations for Pathophysiology and Pharmacology
- Unit 2: Cell and Tissue Function
- Unit 3: Integrative body Functions
- Unit 4: Hematopoietic Function
- Unit 5: Infection and Immunity
- Unit 6: Circulatory Function
- Unit 7: Respiratory Function

Learning outcomes



After completing *Nursing 316: Review of Pathophysiology and Pharmacology for BN Practice 1*, you will achieve or exceed the following learning outcomes:

- Explain the links between the clinical signs and symptoms of common

diseases and the underlying pathophysiological processes;

- Articulate the relationships between pathophysiological processes and tests used to diagnose common diseases;
- Describe variations of pathophysiological processes across the lifespan;
- Describe the principles of homeostasis, compensation and adaptation in ordered and disordered physiology as manifested in the various body systems;
- Identify major classifications of pharmacotherapeutic agents and prototypes of each as used in the treatment of common health alterations;
- Describe the therapeutic actions, indications, pharmacokinetics, contraindications, most common adverse reactions, and important drug-drug interactions associated with drug classifications and specific drugs;
- Identify physiological and pathophysiological differences that must be considered in assessing therapeutic medication dosages administered across the lifespan;
- Competently calculate drug dosages;
- Describe ethical, legal and professional responsibilities for the Registered Nurse related to safe medication administration.


Evaluation


To **receive credit**  for NURS 316, students must complete all of the required assignments, achieve a minimum pass grade of 64% on the Final Exam, and a composite grade of at least **C(64 percent)** .

The assignments and weighting of the composite grade is as follows:

Activity	Weight
Assignment 1 - Medication Calculation Quiz (Pass Required)	Pass/Fail
Assignment 2 - Unit Quizzes	25%


Activity	Weight
Cumulative Units 1-4 Assessment (Invigilated)	35%
Final Exam	40%
Total	100%


The **final examination** for this course must be requested in advance and written under the supervision of an AU-approved exam invigilator. Invigilators include either ProctorU or an approved in-person invigilation centre that can accommodate online exams. Students are responsible for payment of any invigilation fees. Information on exam request deadlines, invigilators, and other exam-related questions, can be found at the [Exams and grades](#)  section of the Calendar.

To learn more about assignments and examinations, please refer to Athabasca University's [online Calendar](#) .



The Midterm Assessment will be invigilated and located in the course study guide, it is not booked through the myAU or the Exam Center.

Materials

Karch, A.M. (2017). *Focus on nursing pharmacology* (7th ed.). Philadelphia, PA: Wolters Kluwer Health.  (eText)

Porth, C. M. (2015). *Essentials of pathophysiology: Concepts of altered health states* (4th ed.). Philadelphia, PA: Wolters Kluwer Health.  (eText)





eTexts

Registration in this course includes electronic textbooks. For more information on [electronic textbooks](#) , please refer to our [eText Initiative site](#) .

Other Materials

A variety of electronic journals and websites are used in the course and paper copies are not included in the course package.

Important links

- › [Academic advising](#) 
- › [Program planning](#) 
- › [Request assistance](#) 
- › [Support services](#) 

Athabasca University reserves the right to amend course outlines occasionally and without notice. Courses offered by other delivery methods may vary from their individualized study counterparts.

Opened in Revision 3, June 7, 2023

Updated July 2, 2024

View [previous revision](#) 
