



## COURSE OUTLINE

### **NURS 1102** **APPLIED PHARMACOLOGY**

**3 CREDITS**

PREPARED BY: Sue Starks, Instructor/Coordinator Practical Nurse Program  
DATE: October 31, 2020

APPROVED BY: Name, Title  
DATE: Click or tap to enter a date

APPROVED BY SENATE: Click or tap to enter a date  
RENEWED BY SENATE: Click or tap to enter a date

**APPLIED ARTS DIVISION  
NURS 1102  
Applied Pharmacology  
3 Credits  
Winter, 2021**

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## **APPLIED PHARMACOLOGY**

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**INSTRUCTOR:** Sue Starks  
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**OFFICE HOURS:** TBA  
**CLASSROOM:**  
**TIME:** 13-16 Tuesdays  
**DATES:** Jan 5 – April 20, 2021

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### **COURSE DESCRIPTION**

The pharmacokinetics of medications, the rationale for their use and the expected results of therapy are discussed in this course, along with the development of critical thinking skills to assess the need for, and patient response to medication. Practical nurse competencies, the scope of practice and legal responsibilities are also emphasized.

### **PREREQUISITES**

ENGL100 Academic Writing and Critical Thinking  
ELCC 125 Interpersonal Relationships and Communication Skills  
ANAT1101 Anatomy and Physiology  
NURS1101 Nursing Arts  
NURS1202 Nursing Foundation 1  
NURS1301 Mathematical Principles of Medication Administration

### **CO-REQUISITES**

NURS 1103 Pathophysiology

### **RELATED COURSE REQUIREMENTS**

It is highly recommended that all students have access to a computer or other device and Internet to do their studies. The minimum specifications for a student device are as follows:

<b>Requirement</b>	<b>Windows-based PC</b>	<b>Apple Mac/macOS-based PC</b>
Operating System	Windows 10	macOS X
Web Browser	Firefox, Edge or Google Chrome	Firefox, Edge or Google Chrome
RAM/Memory	4 GB	4 GB
Storage	5 GB of available space	5 GB of available space

### **EQUIVALENCY OR TRANSFERABILITY**

See Bow Valley College transferability information @ <https://bowvalleycollege.ca/student-resources/academic-services/transfer-credits>.

### **LEARNING OUTCOMES**

*Upon successful completion of the course, students will be able to...*

- Use critical thinking to analyze, synthesize and evaluate knowledge of medications into safe nursing practice
- Complete health assessments related to medication administration and recognize the significance of data and deviations from baseline
- Apply the nursing process to the delivery of medications
- Integrate knowledge of medications to understand nursing implications including correct dosages, anticipation, and management of therapeutic effects, observation/monitoring of adverse effects and patient teaching
- Follow agency policy, standards of practice and government regulations in the delivery of medications, occupational health and safety, and reporting and documenting

### **COURSE FORMAT**

This course will include a total of 45 hours of on-line learning, videoconference classes, and exams. A combination of synchronous (virtual real-time class meetings through Zoom) and asynchronous (web-based via Moodle) learning activities are provided. Learning activities may include but are not limited to facilitator-led learning, projects, and on-line exercises.

**ASSESSMENTS**

COURSE LEARNING OUTCOME(S)	ASSESSMENT	WEIGHT
1, 3, 4, 5	Learning Activity	10%
1, 2, 3, 4, 5	Exam 1	30%
1, 2, 3, 4, 5	Exam 2	30%
1, 2, 3, 4, 5	Exam 3	30%

Important: For details on each assignment and exam, please see your Course Offering Information.

A minimum grade of D is required to pass this course. However, your program may require a higher grade in this course for you to progress in the program or to meet your specific program completion requirements. **An overall minimum final mark for this course must be 64%, letter grade C, grade point value of 2.0 to pass this course.** Please consult with your program area or contact your program chair for further details.

A minimum Grade Point Average of 2.0 is required for graduation.

GRADE	PERCENTAGE	GRADE POINT	DESCRIPTION
A+	95-100	4.0	Exceptional: superior knowledge of subject matter
A	90-94	4.0	Excellent: outstanding knowledge of subject matter
A-	85-89	3.67	
B+	80-84	3.33	
B	75-79	3.0	Very Good: knowledge of subject matter generally mastered
B-	70-74	2.67	
C+	67-69	2.33	
C	64-66	2.0	Satisfactory/Acceptable: knowledge of subject matter adequately mastered
C-	60-63	1.67	
D+	57-59	1.33	
D	50-56	1.0	Minimal Pass
F	Less than 50	0.0	Fail: an unsatisfactory performance

## **REQUIRED TEXTBOOKS AND MATERIAL**

Adams, M.P., Holland, Bostwick, P., El-Hussein, M., Osuji, J. (2021). *Pharmacology for nurses: A pathophysiological approach* (3rd Canadian ed.). Pearson Canada.

## **ACADEMIC AND STUDENT CONDUCT**

Information on academic standing and student rights and responsibilities can be found in the current Academic Regulations that are posted on the Student Services/ Admissions & Registration web page.

## **PLAGIARISM**

Plagiarism is a serious academic offence. Plagiarism occurs when a student submits work for credit that includes the words, ideas, or data of others, without citing the source from which the material is taken. Plagiarism can be the deliberate use of a whole piece of work, but more frequently it occurs when students fail to acknowledge and document sources from which they have taken material according to an accepted manuscript style (e.g., APA, CSE, MLA, etc.). Students may use sources which are public domain or licensed under Creative Commons; however, academic documentation standards must still be followed. Except with explicit permission of the instructor, resubmitting work which has previously received credit is also considered plagiarism. Students who plagiarize material for assignments will receive a mark of zero (F) on the assignment and may fail the course. Plagiarism may also result in dismissal from a program of study or the University.

## **YUKON FIRST NATIONS CORE COMPETENCY**

Yukon University recognizes that a greater understanding and awareness of Yukon First Nations history, culture and journey towards self-determination will help to build positive relationships among all Yukon citizens. As a result, to graduate from ANY Yukon University program, you will be required to achieve core competency in knowledge of Yukon First Nations. For details, please see [www.yukonu.ca/yfnccr](http://www.yukonu.ca/yfnccr).

## **ACADEMIC ACCOMMODATION**

Reasonable accommodations are available for students requiring an academic accommodation to fully participate in this class. These accommodations are available for students with a documented disability, chronic condition or any other grounds specified in section 8.0 of the Yukon University Academic Regulations (available on the Yukon University website). It is the student's responsibility to seek these accommodations. If a student requires an academic accommodation, he/she should contact the Learning Assistance Centre (LAC): lac@yukonu.ca.

## **TOPIC OUTLINE**

Regulations and Ethics Pertaining to Medication Administration  
Principles of Medication Action and Administration  
Medication Classification and Research  
Nursing Process and Patient Education  
Autonomic Nervous System Medications  
Vitamins, Minerals and Electrolytes  
Cardiovascular and Anticoagulant Agents  
Respiratory Medications  
Medications for Neurodegenerative and Seizure Disorders  
Psychopharmacology, Analgesic, Anti-inflammatory Medications and Sedatives/Anxiolytics  
Endocrine Medications  
Gastrointestinal Tract Medications  
Antibacterial, Antiviral, and Anti-fungal Medications  
Principles of Immunization  
Antineoplastic Medications  
Urinary and Reproductive System/Eye, Ear, and Skin Medications

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