



School of Health Education and Human Services

NURS 1102

APPLIED PHARMACOLOGY

Term: Winter 2022

Number of Credits: 3



Course Outline

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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.

COURSE REQUIREMENTS

Prerequisite(s):

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

Corequisite(s):

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:

Requirement	Windows-based PC	Apple Mac/macOS-based PC
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

Delivery format

This course will include a total of 45 hours of on-line learning, videoconference classes, possible in-person sessions and exams. A combination of synchronous (virtual real-time class meetings through Zoom), in-person activities 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.

EVALUATION

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.

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

COURSE WITHDRAWAL INFORMATION

Refer to the YukonU website for important dates.

TEXTBOOKS & LEARNING MATERIALS

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

ACADEMIC INTEGRITY

Students are expected to contribute toward a positive and supportive environment and are required to conduct themselves in a responsible manner. Academic misconduct includes all forms of academic dishonesty such as cheating, plagiarism, fabrication, fraud, deceit, using the work of others without their permission, aiding other students in committing academic offences, misrepresenting academic assignments prepared by others as one's own, or any other forms of academic dishonesty including falsification of any information on any Yukon University document.

Please refer to Academic Regulations & Procedures for further details about academic standing and student rights and responsibilities.

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 by contacting the Learning Assistance Centre (LAC): LearningAssistanceCentre@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

Musculoskeletal, Eye, Ear and Skin Medications

Administering Diagnostic Imaging Contrast Agents

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