



**Bow Valley  
College**

## **Course Outline**

**NURS1102**

Applied Pharmacology  
Winter 2025 - Current

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## NURS1102 Applied Pharmacology

### COURSE DESCRIPTION

The pharmacokinetics of medications, the rationale for their use and the expected results of therapy are discussed, 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.

#### REQUISITES

Complete all of the following

- Earn a minimum grade of C in each of the following courses
  - ANAT1101 - Anatomy And Physiology (6)
  - COMM1101 - Interpersonal Relationships And Communication Skills (3)
  - ENGL1201 - English Composition (3)
  - NURS1101 - Nursing Arts (3)
- Earn a minimum grade of B in each of the following courses
  - NURS1202 - Nursing Foundations 1 (3)
- Earn a minimum grade of B+ in each of the following courses
  - NURS1301 - Mathematical Principles of Medication Administration (3)

#### EQUIVALENTS

None

#### CREDITS

3

#### HOURS

45

#### ELIGIBLE FOR PLAR

Yes

#### ZERO TEXTBOOK COST

No

### COURSE LEARNING OUTCOMES

Bow Valley College is committed to ensuring our graduates can demonstrate their abilities in key areas that will make them effective citizens and encourage their development as lifelong learners. In addition to the discipline-specific skills that learners acquire in their programs, the College has identified ten learning outcomes.

#### College-Wide Outcomes:

1. Communication

2. Thinking Skills
3. Numeracy and Financial Literacy
4. Working with Others
5. Digital Literacy
6. Positive Attitudes and Behaviours
7. Continuous Learning
8. Health and Wellness Awareness
9. Citizenship and Intercultural Competence
10. Environmental Sustainability

# COURSE LEARNING OUTCOME(S) COLLEGE WIDE  
OUTCOMES  
SUPPORTED

1	Use critical thinking to analyze, synthesize and evaluate knowledge of medications into safe nursing practice	2, 3, 6, 7, 8
2	Complete health assessments related to medication administration and recognize the significance of data and deviations from baseline	1, 2, 6, 7, 8
3	Apply the nursing process to the delivery of medications	2, 3, 6, 8, 9
4	Integrate knowledge of medications to understand nursing implications including correct dosages, anticipation and management of the therapeutic effects, observation/monitoring of adverse effects and patient teaching	1, 2, 3, 4, 6, 9
5	Follow agency policy, standards of practice and government regulations in the delivery of medications, occupational health and safety, and reporting and documenting	1, 2, 3, 5, 6, 7, 8, 9

## COURSE MODULES AND SCHEDULE

*\*Course schedule subject to change, depending on delivery mode and term of study. For exact dates, please consult the Course Offering Information in Brightspace.*

## WEEK/HOURS MODULES

2 Hours	Regulations and Ethics Pertaining to Medication Administration
3 Hours	Principles of Medication Action and Administration
3 Hours	Medication Classification and Research
2 Hours	Complementary and Alternative Medicines and Vitamins
2 Hours	Autonomic Nervous System Medications
2 Hours	Antineoplastic Medications
6 Hours	Cardiovascular and Hematological Agents
4 Hours	Respiratory Medications
3 Hours	Medications for Neurodegenerative and Seizure Disorders
3 Hours	Psychopharmacology, analgesic, anti-inflammatory medications and sedatives/anxiolytics
3 Hours	Endocrine Medications
2 Hours	Gastrointestinal Tract Medications
2 Hours	Antibacterial, antiviral, and antifungal medications
2 Hours	Principles of Immunization
3 Hours	Musculoskeletal, Eye, Ear and Skin Medications
3 Hours	Administering Diagnostic Imaging Contrast Agents

## ASSESSMENT

### 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 the Course Offering Information.

## PERFORMANCE STANDARDS

A minimum grade of D is required to pass this course. However, a program may require a higher grade in this course to progress in the program or to meet 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 the program area or contact the program chair for further details. A minimum Grade Point Average of 2.0 is required for graduation.

## GRADING SCHEME

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 LEARNING RESOURCES

Adams, M.P., Holland, Bostwick, P., El-Hussein, M., Osuji, J. (2023). *Pharmacology for nurses: A pathophysiological approach* (4th Canadian ed.). Pearson Canada.

Additional learning resources may be found in the Course Offering Information or in Brightspace.

## ADDITIONAL INFORMATION

Additional information may be found in the Course Offering Information or in Brightspace.

## ACADEMIC ACCOMMODATIONS

Learners with a disability (learning, physical, and/or mental health) may qualify for academic and exam accommodations. For more information, or to apply for accommodations, learners should make an appointment with Accessibility Services in the Learner Success Services (LSS) Department. Accessibility Services can also assist learners who may be struggling with learning but do not have a formal diagnosis. To make an appointment visit LSS on the first floor of the south campus or call 403-410-1440. It is the learner's responsibility to contact Accessibility Services and request academic accommodations. For more information, please visit our website at <http://www.bowvalleycollege.ca/accessibility>.

## INSTITUTIONAL POLICIES

Bow Valley College is committed to the highest standards of academic integrity and honesty. Learners are urged to become familiar with and uphold the following policies: Academic Integrity (500-1-7), Learner Code of Conduct, Procedures and Guidelines (500-1-1), Learner Appeals (500-1-12), Attendance (500-1-10), Grading (500-1-6), Academic Continuance and Graduation (500-1-5), and Electronic Communications (300-2-13). Audio or video recording of lectures, labs, seminars, or any other teaching and learning environment by learners is allowed only with consent of the instructor as part of an approved accommodation plan. Recorded material is to be used solely for personal study and is not being used or distributed without prior written consent from the instructor.

### **Turnitin:**

Students may be required to submit their course work to Turnitin, a third-party service provider engaged by BVC. Turnitin identifies plagiarism by checking databases of electronic books and articles, archived webpages, and previously submitted student papers. Students acknowledge that any course work or essays submitted to Turnitin will be included as source documents in the Turnitin.com reference database, where it will be used solely to detect plagiarism. The terms that apply to a student's use of Turnitin are described on Turnitin.com.

### **Online Exam Proctoring:**

Examinations for this course may require proctoring through an online proctoring service. Online proctoring enables online exam taking within a controlled and monitored environment, thereby enhancing academic integrity. Online proctoring may occur through a variety of methods, including but not limited to:

- a. live online proctoring where a remote invigilator authenticates identity and observes completion of an exam using specialized software and recordings;
- b. automated proctoring where the exam session is recorded and AI (artificial intelligence) analyzed;
- c. browser lockdown that limits access to other applications, websites, copying, printing, screen capture and other functions; or
- d. a combination of both live/automated proctoring and browser lockdown.

Course instructors will review recordings, analyses, and data obtained through online proctoring for academic integrity infractions. It is the student's responsibility to meet the technical, software, location, and identity verification requirements necessary to enable online proctoring.

Further details of these policies are available in the Academic Calendar and on the Bow Valley College website, [bowvalleycollege.ca](https://bowvalleycollege.ca).

Learners are encouraged to keep a copy of this course outline for future reference.

### **Collection of Personal Information:**

This course, including your image and voice, may be recorded and made available to you and other students taking the course section. By attending the class(es) online or in person, you consent to the collection of your personal information. If you do not wish to be recorded, please contact your instructor before starting the course/class to discuss alternative arrangements.

You may use the recordings only for educational purposes and you must not copy, share, or use the recordings for any other purpose without the instructor's express permission.

Your personal information is collected in accordance with section 33(c) of the Freedom of Information and Protection of Privacy Act (Alberta) to deliver academic programming, support learner flexibility, promote universal design for learning principles, and for purposes consistent with the course activities and outcomes. If you have any questions about the collection, disclosure, use, or protection of this information, please contact the College's Access and Privacy Officer at [foip@bowvalleycollege.ca](mailto:foip@bowvalleycollege.ca).