

Department of Practical Nursing & Health Care Aide

COURSE OUTLINE – Spring 2025

NP1700 (3): Introduction to Pharmacology – 3 (3-1-0) 60 Hours for 15 Weeks

Northwestern Polytechnic acknowledges that our campuses are located on Treaty 8 territory, the ancestral and present-day home to many diverse First Nations, Metis, and Inuit people. We are grateful to work, live and learn on the traditional territory of Duncan's First Nation, Horse Lake First Nation and Sturgeon Lake Cree Nation, who are the original caretakers of this land.

We acknowledge the history of this land and we are thankful for the opportunity to walk together in friendship, where we will encourage and promote positive change for present and future generations.

INSTRUCTOR: Nicki Rosentreter, LPN **PHONE:** 780-539-2716
OFFICE: HEC 363 **E-MAIL:** nrosentreter@nwpolytech.ca
OFFICE HOURS: By appointment

CALENDAR DESCRIPTION: This study involves investigating the impact of drugs on the human body, encompassing their therapeutic effects, side effects, adverse reactions and potential interactions with other drugs. It also delves into familiar drug classifications and specific medications, including herbal preparations within each classification.

Note: Available only to Practical Nursing students.

PREREQUISITE(S): NP1205, NP1250, NP1280, NP1500

COREQUISITE(S): NP1400, NP1410, NP1450, NP1480, NP1600

REQUIRED MATERIALS:

Sealock, K., Seneviratne, C., Lilley, L. L., Collins, S. R., & Snyder, J. S. (2021). *Lilley's pharmacology for Canadian health care practice* (4th ed.). Elsevier.

DELIVERY MODE(S): Lecture/Seminar – in-person

LEARNING OUTCOMES:

Upon successful completion of NP1700, learners will be able to:

1. Apply concepts from anatomy and physiology to pathophysiological processes and pharmacotherapy.
2. Understand the fundamental principles of pharmacology, including drug classifications, mechanisms of action, and routes of administration.
3. Identify pathophysiological processes and pharmacotherapy interventions.
4. Comprehend the pharmacokinetics and pharmacodynamics of drugs, including absorption, distribution, metabolism, and excretion.
5. Recognize the common drug-drug interactions, adverse drug reactions, and their implications for patient care.
6. Understand the importance of patient education regarding medication use, including instructions, side effects, and potential risks.
7. Understand the concepts of evidence-based practice and research in pharmacology to make informed clinical decisions.

TRANSFERABILITY:

Please consult the Alberta Transfer Guide for more information. You may check the transferability of this course at the Alberta Transfer Guide main page <http://www.transferalberta.alberta.ca>.

**** For courses with alpha (letter) grading, a grade of D or D+ may not be acceptable for transfer to other post-secondary institutions. Students are cautioned that it is their responsibility to contact the receiving institutions to ensure transferability.**

EVALUATIONS:

Assignment	Weight	Date	Related Course Learning Outcome
Seminar attendance, participation and Quizzes In-class activities	10%	Once a week (X10 – 1% each)	1, 2, 3, 4, 5, 6
Pharmacology assignment	20%	Week 14	1, 2, 3, 4, 5, 6, 7
Exam #1	20%	Week 5	1, 2, 3, 4, 5, 6, 7
Exam #2	25%	Week 11	1, 2, 3, 4, 5, 6, 7

Exam #3	25%	Week 15	1, 2, 3, 4, 5, 6, 7
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1. Seminar attendance, participation and Quizzes/In-class activities

The objective of this portion of grading is to encourage consistent attendance, active participation, and engagement with course content through in-class activities and quizzes, reinforcing material covered in current and previous weeks.

If you notify the instructor *before* class with a valid reason for your absence, you may receive partial credit at their discretion. Unexcused absences will result in a 0. Arrivals more than 5 minutes late will not receive credit for the activity portion.

Each class is graded based on that day's activity, attendance and participation as per the rubric. There are 10 "Tickets to Seminar," each worth 1% of your final grade.

Rubric posted on D2L.

2. Pharmacology Assignment

This assignment aims to enhance students' understanding of pharmacological treatments for common diseases, including the drugs used, their mechanisms of action, potential side effects, and management of those side effects. You will create a scholarly paper that addresses all categories listed on the assignment instructions/rubric.

Rubric posted on D2L.

3. Exam #1

The first exam includes all content covered up to and including Week 4. Question format includes a variety of styles including, but not limited to multiple-choice, short answer, long answer, matching, and select all that apply.

4. Exam #2

The second exam includes all content covered from Week 5 up to and including Week 10. Question format includes a variety of styles including, but not limited to multiple-choice, short answer, long answer, matching, and select all that apply.

5. Exam #3

The third exam includes all content covered from Week 11 up to and including Week 15. Question format includes a variety of styles including, but not limited to multiple-choice, short answer, long answer, matching, and select all that apply.

The scheduling of the final exam is set by the Registrar's Office.

GRADING CRITERIA:

Please note that most institutions will not accept your course for transfer credit IF your grade is less than C-.

Grading Chart for courses with Alpha Grading:

Alpha Grade	4-point Equivalent	Percentage Guidelines	Alpha Grade	4-point Equivalent	Percentage Guidelines
A+	4.0	95-100	C+	2.3	67-69
A	4.0	85-94	C	2.0	63-66
A-	3.7	80-84	C-	1.7	60-62
B+	3.3	77-79	D+	1.3	55-59
B	3.0	73-76	D	1.0	50-54
B-	2.7	70-72	F	0.0	00-49

COURSE SCHEDULE/TENTATIVE TIMELINE:

*Subject to change

Week	Pharmacology Chapters to Read
1	Chapter 43 Antibiotics: Part 1 Chapter 44 Antibiotics: Part 2 Chapter 45 Antiviral Drugs
2	Chapter 46 Antitubercular Drugs Chapter 47 Antifungal Drugs Chapter 49 Anti-inflammatory and Antigout Drugs
3	Chapter 23 – Antihypertensives Chapter 24 - Antianginal Drugs Chapter 25 - Heart Failure Chapter 26 – Antidysrhythmic
4	Chapter 27 - Coagulation Modifiers Chapter 28 - Antilipemic Drugs Chapter 29 –Diuretics Chapter 30 - Fluid and Electrolytes
5	Tuesday – Exam #1

	Thursday - Chapter 52 Antineoplastic Drugs Part 1 Chapter 53 Antineoplastic Drugs Part 2
6	Chapter 50 Immunosuppressant Drugs Chapter 54 Biological response anti-rheumatic Chapter 55 Anemia
7	Chapter 37 Antihistamines, Decongestants and Antitussives (include Fever) Chapter 38 Drugs affecting the Respiratory System
8	Chapter 39 - Acid-Controlling Drugs Chapter 40 - Antidiarrheals and Laxatives Chapter 41 - Antiemetic and Antinausea Drugs Chapter 42 - Nutritional Supplements
9	Spring Break
10	Chapter 31 - Pituitary Drugs Chapter 32 - Thyroid and Antithyroid drugs Chapter 34 - Adrenal Drugs Chapter 33 - Antidiabetic Drugs
11	Tuesday - Chapter 21 - Cholinergic Drugs Chapter 22 - Cholinergic blocking Drugs Thursday - Exam #2 Pharm
12	Chapter 15 - Antiepileptic Drugs Chapter 16 - Antiparkinsonian Drugs Chapter 17 - Psychotherapeutics
13	Chapter 11 Analgesic Drugs Chapter 12 - General and Local Anaesthetics Chapter 13 - CNS Depressants and muscle relaxants Chapter 14 - CNS Stimulants and related drugs
14	Chapter 57 - Ophthalmic Drugs Chapter 58 - Otic Drugs Chapter 19 - Adrenergic Drugs Chapter 20 - Adrenergic Blocking Drugs
15	Tuesday - Chapter 36 Men's Health Drugs Chapter 35 Women's Health Drugs Final Exam Week August 14-21

STUDENT RESPONSIBILITIES:

Refer to NWP Academic Policies

<https://www.nwpolytech.ca/about/administration/policies/>

Refer to PN Student Handbook

https://docs.google.com/document/d/1rC9OZjzQmSUDuEdrgUaiC0g5_8GtIJYx6y7PAtkHyA/edit?usp=sharing

STATEMENT ON ACADEMIC MISCONDUCT:

Academic Misconduct will not be tolerated. For a more precise definition of academic misconduct and its consequences, refer to the Student Rights and Responsibilities policy available at <https://www.nwpolytech.ca/about/administration/policies/index.html>.

**Note: all Academic and Administrative policies are available on the same page.

Additional Information:

STATEMENT ON PLAGIARISM AND CHEATING:

Cheating and plagiarism will not be tolerated and there will be penalties. For a more precise definition of plagiarism and its consequences, please refer to the Student Rights and Responsibilities policy

**Note: all Academic and Administrative policies are available on the same page.

TURNITIN SOFTWARE

As part of NWP's commitment to academic integrity, all written assignments submitted by students will be reviewed using Turnitin software, an online plagiarism detection tool, to verify originality and ensure academic integrity. Turnitin compares student work to a vast database of academic sources, publications, and previously submitted assignments to identify potential instances of plagiarism or improper citation(s). By enrolling in this course, students acknowledge and consent to the use of Turnitin for assignment submissions.

Late Assignments



To obtain credit in the course ALL assignments, examinations, and components of student evaluations. Students are expected to make every effort to complete assignments on time. Assignment submissions are expected on the date determined by faculty. If extensions are necessary, they may be requested up to 48 hours prior to the assignment due date and should be submitted in writing to the faculty member involved. Not all extensions will be granted. In exceptional situations, extension requests within the 48-hour period may be considered. Late assignments will have 5% of total marks (or one letter grade) for the assignment deducted for each day/partial day (including weekend days) beyond the due time.

For example, a paper marked at B+ would receive an adjusted grade of B if handed in one day late. After 5 days, a grade of 0 will be awarded the assignment. If the late penalty places the grade below the necessary pass grade, students will be unsuccessful in the course. When submitting assignments electronically, it is the student's responsibility to ensure the assignment has been received.

Papers/assignments may not be rewritten for a higher grade. Concerns regarding grading are to be discussed with the faculty member involved.