



PPNP-115 – Pharmacology 2

Health and Human Services

Effective Term & Year: Fall 2023
Course Outline Review Date: 2028-03-01

Program Area: Health

Description:

This course builds on Pharmacology I to increase learners' understanding of pharmacotherapeutics prescribed for illnesses clients experience across the lifespan. Topics include drug classifications and links with common diseases/illness based on a body system approach and drug resistance.

Program Information:

This course is one of seven courses required in Level 2 of the Practical Nursing program. Satisfactory completion of this course is required to progress to the next level.

Delivery Methods: On-campus (Face-to-Face)

Credit Type: College of the Rockies Credits

Credits: 2

Instructional Activity and Hours:

Activity	Hours
Classroom, Directed Studies or Online Instruction	30
Seminar/Tutorials	
Laboratory/Studio	
Practicum/Field Experience	
Co-op/Work Experience	

Other

Total	30
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Course Requisites:

- Complete all of the following
 - Successful completion of Level 1 courses.
 - Completed the following:
 - [PPNP108](#) – Consolidated Practice Experience 1 (2)
 - Completed or concurrently enrolled in:
 - [PPNP111](#) – Professional Practice 2 (1)
 - [PPNP112](#) – Professional Communication 2 (2)
 - [PPNP113](#) – Variations in Health 2 (3)
 - [PPNP114](#) – Health Promotion 2 (2)
 - [PPNP116](#) – Integrated Nursing Practice 2 (5)

Flexible Assessment: Yes

In some cases students may be able to apply for recognition of prior learning outside the classroom. This flexible assessment process provides equivalent course credit. It is a rigorous process that may include external evaluation, worksite assessment, demonstration, standardized test, self-assessment, interview, products/portfolio, and challenge exam, or other measures as appropriate. Tuition fees apply. Contact an education advisor for more information.

Course Transfer Credit:

For information about receiving transfer credit for courses taken at either British Columbia or Alberta institutions, please see <https://www.bctransferguide.ca/> or <https://transferalberta.alberta.ca> . For more transfer credit information, please visit <https://www.cotr.bc.ca/Transfer>

All requests for course transfer credit from institutions in British Columbia or elsewhere should go to the College of the Rockies Enrolment Services office.

Textbook Resources:

Textbook selection varies by instructor and may change from year to year. At the Course Outline Effective Date the following textbooks were in use:

BCCNM: Current British Columbia College of Nurses and Midwives (BCCNM) documents.

Astle, B. J & Duggleby, W. (2019). *Canadian Fundamentals of Nursing*. (6th ed.). Elsevier Canada.

Vallerand, A. H. & Sanoski, C. (2023). *Davis's Canadian drug guide for nurses*. (18th ed.). F.A. Davis Company.

Willihnganz, M. J., Gurevitz, S. L., & Clayton, B. D. (2022). *Basic pharmacology for nurses* (19th ed.). Elsevier Inc.

Please see the instructor's syllabus or check COTR's online text calculator <http://go.cotr.bc.ca/tuition/tCalc.asp> for a complete list of the currently required textbooks.

Learning Outcomes:

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

- describe medication classifications, actions, interactions and nursing implications relative to body systems including: endocrine, neurological, cardiovascular, respiratory, gastrointestinal, genitourinary, musculoskeletal systems and miscellaneous drug classification;
- relate drug interactions, polypharmacy and food/drug effects to medication used by clients across the lifespan, particularly the older adult;
- describe the effects, uses and indications for antimicrobials, as well as the relationship with drug resistance;
- relate theoretical understanding of narcotic side effects, indications for use and legal responsibilities;
- describe the potential interaction of complementary, Indigenous and herbal preparations with prescription medications;
- demonstrate competency with mathematical drug calculations; and
- consider the roles of other health care providers in determining one's own professional and interprofessional roles related to complementary and prescription medication ordering, processing, dispensing, administration and monitoring.

Course Topics:

- Drug Classifications according to body systems:
 - Endocrine System
 - Nervous System (includes effect on cognition and mental health)
 - Cardiovascular System
 - Respiratory System
 - Gastrointestinal System (not including medications used to treat constipation)

- Genitourinary System
- Musculoskeletal System
- Sensory System
- Miscellaneous Drug Classifications (antineoplastics)
- Antimicrobial Agents
- Drug Resistance
- Interactions of complementary and alternative healing remedies with prescription medications

See instructor syllabus for the detailed outline of weekly readings, activities and assignments.

Evaluation and Assessments

Assessment Type: On-Campus (face-to-face)

Assessment Type	% of Total Grade
Midterm	35%
Final Comprehensive Exam	45%
Medication Case Study	20%
Math Exam	Pass/Fail
Total	100%

Grade Scheme

A+	A	A-	B+	B	B-	C+	C	C-	D	F
>=95	94-90	89-85	84-80	79-75	74-70	69-65				<65

Pass requirements: None

Evaluation Notes Comments:

Math Exam – Based on drug dosage calculations, must achieve a 100% to pass, will be given 3 attempts to achieve 100% (different exam each time).

Theory Exams – Learners must achieve an overall average of 80% on the theory portion of pharmacology (This includes the Midterm and Final Comprehensive exam). One rewrite will be available to replace the lowest achieved exam mark. Maximum grade assigned after a rewrite will be 80% on the overall theory portion of the course.

Medication Administration Case Study: There will be an opportunity to retest practical portion once if the learner fails the first attempt.

When a client/patient is referenced in an assignment, students must only use the term client or patient. No identifying markers (e.g. names, initials, room number, etc.) are to be used. A 15% penalty will be applied for each day past due date for late assignment submissions. If any assignment is more than three (3) days late it will be assigned a grade of "0".

Exam Attendance:

Students must attend all scheduled exams at the appointed time and place. Instructors may approve an alternate exam to accommodate an illness or personal crisis. Department heads will consider other written requests. Any student who misses a scheduled exam without prior approval will receive a "0" on the exam.

Academic Policies:

College of the Rockies policies related to courses can be found at <https://cotr.bc.ca/about-us/college-policies/> and include the following:

- Policy 2.4.3 Students with Documented Disabilities
 - Policy 2.4.4 Student Conduct (plagiarism, other cheating, behavioral misconduct)
 - Policy 2.5.8 Academic Performance
 - Policy 2.5.3 Grade Appeal
 - Policy 2.4.9 Student Concerns Re Faculty
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Equivalent Course(s) and Course Code Changes

Prior Course Code: PNUR 205

Date changed: September 2012

Course Changes:

The College of the Rockies updates course outlines regularly to meet changing educational, employment and marketing needs. The instructor will notify students in writing of any updates to this outline during the semester. The instructor reserves the right to revise, add or delete material while meeting the learning outcomes of this course outline.