



A POLYTECHNIC INSTITUTION

School of Health Sciences
Bachelor of Science in Nursing

NURS 1064
Pharmacology 2

Start Date:	August 17, 2009	End Date:	December 11, 2009
Total Hours:	17	Total Weeks:	17
Hours/Week:	1	On-line:	1
Term/Level:	2	Course Credits:	1

Co requisites:		NURS 1064 is a prerequisite for:	
Course No.	Course Name	Course No.	Course Name
NURS 2030	Nursing Practicum 2	NURS 1065	Pharmacology 3

■ **Course Description (required)**

This course expands on introductory concepts and principles related to pharmacology. Drug classifications knowledge will assist learners to expand their theory and application of the scope of specific pharmacological interventions. The course will assist students to relate drug action(s) to patient physiology and/or pathophysiology and to anticipate effects based on this understanding. Interventions related to monitoring patient response to drugs will be emphasized. Learners will continue to develop and refine on-line learning and interaction skills reflecting several dimensions of on-line interactivity. Course content includes central nervous system drugs, analgesic and anti-inflammatory drugs, insulin and oral hypoglycemics, antibiotics, respiratory drugs and drugs affecting coagulation.

■ **Evaluation**

On-line Participation	15 %
Case Study	15 %
Midterm Exam	30 %
Final Exam	40 %
Total	100 %

Comments:

To successfully complete this course, the student must:

1. Actively participate in on-line discussions.
2. Complete all assignments and exams.
3. Achieve a final grade of 50%
4. Students must meet the participation requirement in order to receive a Satisfactory standing in this course.

■ **Course Learning Outcomes/Competencies**

At the end of this course the student will be able to:

1. Apply knowledge of pharmacokinetics and pharmacodynamics to selected drug categories.
2. Relate specific drug action(s) to human physiology and/or pathophysiology to predict therapeutic and adverse effects.
3. Explain in-depth assessments required when administering medications and monitoring patients for therapeutic drug effects, adverse reactions, toxicity and drug interactions.
4. Apply selected pharmacological concepts and principles to patient situations.
5. Discuss a variety of legal and ethical nursing issues related to pharmacology.
6. Demonstrate development of progressive on-line learning skills including effective, progressive on-line interaction and communication.

■ **Verification**

I verify that the content of this course outline is current.

Authoring Instructor

Date

I verify that this course outline has been reviewed.

Program Head

Date

I verify that this course outline complies with BCIT policy.

Dean/Associate Dean

Date

Note: Should changes be required to the content of this course outline, students will be given reasonable notice.

■ **Instructor:**

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Kathaleen Appleby	Office Location:	SE12-418	Office Phone:	604-451-6949
	Office Hours:	By appointment	e-Mail Address:	Kathaleen_Appleby@bcit.ca

■ **Learning Resources**

Required:

1. Aschenbrenner, D. S. & Venable, S.J. (2008). *Drug therapy in nursing (3rd ed)*. New York: Lippincott.
2. Spratto, R.G. & Woods, A. L. (2008). *PDR nurse's drug handbook*. Thompson Delmar Learning: New York.

■ **Information for Students**

The following statements are in accordance with BCIT Student Regulations Policy 5101, BCIT Student Code of Conduct (non-academic) Policy 5102, BCIT Student Evaluation Policy 5103, and BCIT Academic Integrity and Appeals Policy 5014. To review the full policies, please refer to <http://www.bcit.ca/about/administration/policies.shtml>

Attendance/Illness:

In case of illness or other unavoidable cause of absence, the student must communicate as soon as possible with his/her instructor or Program Head or Chief Instructor, indicating the reason for the absence. Prolonged illness of three or more consecutive days must have a BCIT medical certificate sent to the department. Excessive absence may result in failure or immediate withdrawal from the course or program.

Cheating, Fabrication, Plagiarism, and/or Dishonesty:

First Offense: Any student in the School of Health Sciences involved in an initial act of academic misconduct - cheating, fabrication, plagiarism, and/or dishonesty will receive a Zero (0) or Unsatisfactory (U) on the particular assignment and may receive a Zero (0) or Unsatisfactory (U) in the course, at the discretion of the Associate Dean.

Second Offense: Any student in the School of Health Sciences involved in a second act of academic misconduct - cheating, fabrication, plagiarism, and/or dishonesty will receive a Zero (0) or Unsatisfactory (U) on the particular assignment and may receive a Zero (0) or Unsatisfactory (U) in the course, and the Associate Dean will recommend to the BCIT Vice-President, Education and/or President, that the student be expelled from the program.

Attempts:

BCIT Nursing Program Student Guidelines, Policies and Procedures which are located online at <http://www.bcit.ca/health/nursing/> state: Applicants who have any combination of two instances of withdrawal or failure in a Nursing Theory course will be readmitted to the program "with written permission from the Associate Dean, who will detail any special considerations". Applicants, who have any combination of two instances of withdrawal or failure in any Nursing Practicum course for academic or performance reasons, will not be readmitted to the program.

■ **Information for Students (continued)**

Accommodation:

Any student who may require accommodation from BCIT because of a physical or mental disability should refer to BCIT's Policy on Accommodation for Students with Disabilities (Policy #4501), and contact BCIT's Disability Resource Centre (SW1-2300, 604-451-6963) at the earliest possible time. Requests for accommodation must be made to the Disability Resource Centre, and should not be made to a course instructor or Program area.

Any student who needs special assistance in the event of a medical emergency or building evacuation (either because of a disability or for any other reason) should also promptly inform their course instructor(s) and the Disability Resource Centre of their personal circumstances.

■ Learning Process Threads

- **Professionalism:** Students build upon a knowledge base regarding pharmacology and the role of the professional nurse. They anticipate and prepare for potential clinical decision making situations. They explore situations and respond with sound clinical judgement. Students develop professionalism by actively engaging in learning partnerships with peers, instructors, patients and health team members. Professionalism involves development of reasoning and reflection to develop professional nursing attitudes, knowledge, judgement and skills.
- **Communication:** Students improve computer literacy by using Internet course materials and resources and by communicating through asynchronous discussion forums. Students thoughtfully and thoroughly discuss course content through partnerships formed with peers and instructors. Students facilitate group functioning to achieve course goals. Communication includes word-processed assignments and electronic postings.
- **Systematic Inquiry:** Students use questioning and feedback to help them think critically. Students discuss their own work with others and take action to improve own clinical decision making. Students continue to develop independent clinical reasoning. Students access course materials, academic literature and on-line resources for research information and course work. To develop critical thinking, students begin to challenge assumptions, consider the importance of context, and imagine alternate perspectives.
- **Professional Growth:** Through a process of self-inquiry and self-discovery, students focus on participating in group learning by sharing accurate, relevant information in a professional manner. Students are responsible and accountable for their learning and evaluate their performance and assess learning gaps. Through reflection on these gaps and why they might exist, students manage information to search for learning opportunities, think critically about learning opportunities and then critically appraise the consequences of the learning opportunities implemented. Students value continually updating pharmacology knowledge and are committed to professional growth.
- **Creative Leadership:** Students continue to develop creative leadership that enhances and supports the creative potential within group members by nourishing a common vision and focusing activity on towards the common goal. Students continue to develop on-line facilitation skills within groups. They demonstrate credibility, accountability, assertiveness, problem solving, judgement and initiative within groups. Students recognize the contributions of others while supporting self direction.
- **Technical Skill:** Students continue to develop an understanding of the impact of technology on nursing practice. Students use electronic media to discuss rationales and nursing responsibilities related to administration of medications and to the assessment of patients who receive medications. Students continue to develop skills in using electronic educational and research technology.

■ **Assignment Details**

- All assignments must be completed to pass the course.
- Students must participate and engage in on-line discussion with their group at least twice during each on-line module. See discussion assignment grading rubric for an in-depth explanation and expectations of this assignment. Students must meet the participation requirement in order to receive a Satisfactory standing in this course.
- All quizzes/self-tests associated with each module should be completed on-line. Self tests in this course are not included in grading, but are for student self assessment of learning.
- The case-study assignment is a group assignment and will be discussed in a clinical post-conference and submitted as a written report. All members of a group will receive the same grade.
- The midterm and final exams are completed on-line and consist of open-book multiple choice questions.



Schedule by Week

Week Number	Material Covered	Reference/Reading	Assignment and Due Date
1, 2	<p>Introduction to Course</p> <ul style="list-style-type: none"> Text-based communication technologies <p>Module 1 Central Nervous System Drugs, Analgesic and Anti-inflammatory Drugs</p>	<p>NURS 1064 Student Orientation Manual Module — Orientation to NURS 1064 (online)</p> <p>Read Desire-2-Learn documents posted on the course website to familiarize yourselves with the new electronic learning environment.</p>	<ul style="list-style-type: none"> Access course and become familiar with Desire-2-Learn environment Read course outline and orientation module Access course content module Read Discussion message — student introduction Post own student introduction for the group by the end of Week 2 Begin working on Module 1

Week Number	Material Covered	Reference/Reading	Assignment and Due Date
3, 4, 5	Module 1 <i>continued</i> Central Nervous System Drugs, Analgesic and Anti-inflammatory Drugs	Aschenbrenner, D. S. & Venable, S. J. <i>Drug therapy in nursing</i> . Chapter 15: Drugs producing Anesthesia and Neuromuscular blocking. Chapter 16: Drugs affecting muscle spasm and rigidity. Chapter 18: Drugs Relieving anxiety and promoting sleep. Chapter 23: Drugs treating severe pain. Chapter 24: Drugs treating mild to moderate pain, fever, inflammation and migraine headaches. Chapter 25: Drugs treating Rheumatoid Arthritis and Gout	<ul style="list-style-type: none"> • Continue with Module 1 and complete readings • Participate in on-line discussions at least twice during this and each subsequent module • Complete self-test

Week Number	Material Covered	Reference/Reading	Assignment and Due Date
6, 7	<p>Module 2</p> <p>Insulin and Oral Hypoglycemics</p>	<p>Aschenbrenner, D. S. & Venable, S. J. <i>Drug therapy in nursing.</i></p> <p>Chapter 52: Drugs affecting blood glucose levels.</p>	<p>Required activities:</p> <ul style="list-style-type: none"> • Participate a minimum of twice during on-line discussions • Complete self-test for module
8, 9, 10	<p>Module 3</p> <p>Antibiotics</p>	<p>Aschenbrenner, D. S. & Venable, S. J. <i>Drug therapy in nursing.</i></p> <p>Chapter 38: Principles of antimicrobial therapy.</p> <p>Chapter 39: Antibiotics affecting the bacterial cell wall.</p> <p>Chapter 40: Antibiotics affecting protein synthesis.</p> <p>Chapter 41: Drugs that are miscellaneous antibiotics.</p> <p>Chapter 42: Drugs treating urinary tract infections.</p>	<p>Required activities:</p> <ul style="list-style-type: none"> • Mid-Term Exam Monday Week 8, On-line • October 6th – time TBA • Covers Module 1 & 2 <ul style="list-style-type: none"> • Participate a minimum of twice during on-line discussions • Complete self-test for module

Week Number	Material Covered	Reference/Reading	Assignment and Due Date
11, 12, 13	Module 4 Respiratory Drugs	Aschenbrenner, D. S. & Venable, S. J. <i>Drug therapy in nursing</i> . Chapter 49: Drugs affecting the lower respiratory system. Chapter 35: Drugs affecting corticosteroid levels.	Required activities: <ul style="list-style-type: none"> • Preparation for Case Study Assignment Due: November 30 (Monday, Week 16) • Participate a minimum of twice during on-line discussions • Complete self-test for module
14, 15, 16	Module 5 Blood Formation and Coagulation	Aschenbrenner, D. S. & Venable, S. J. <i>Drug therapy in nursing</i> . Chapter 32: Drugs affecting coagulation Chapter 10: Lifestyle, diet and habits: Nutrition and complementary medications.	Required activities: <ul style="list-style-type: none"> • Case Study Assignment Due: Monday Nov 30 • Participate a minimum of twice during on-line discussions • Complete self-test for module • Self-evaluation of discussion participation emailed to instructor by December 11 using tool provided
Exam Week	Final Exam		Final Exam: Date & Time TBA