

Course Outline
NURS 1060 - Pharmacology

School of Health Sciences
 Program: Bachelor of Technology in Nursing

Start Date: August 14, 2006

End Date: December 1, 2006

Taken in: Level 3

Course Credits: 2

Total weeks: 17

Total hours: 34

Hours/week: 2

Prerequisites

NURS 2000
 NURS 2030
 BHSC 2203

Prerequisite for:

NURS 4000
 NURS 4032

Course Description

This course will present important concepts and principles related to pharmacology. 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. The role of the health care professional in health promotion and patient teaching will be discussed. Drug classifications will be presented to assist the learner to appreciate the scope of pharmacological treatment and to sort, categorize and retrieve information about selected drugs.

This course also introduces students to on-line learning and assists students to improve computer literacy skills required for clinical practice.

Detailed Course Description

Nursing 1060 facilitates the development of a pharmacology knowledge base and an understanding of the legal and ethical responsibilities related to the administration of medications. The course emphasizes the need to continually update pharmacology knowledge in order to practice safely.

Evaluation

Midterm Exam (Multiple choice questions & Problem based exercise)	40%	To successfully complete this course, the student must:
Final Exam (Multiple choice questions & Problem-based exercise)	40%	
Case Work	20%	1. Participate at least weekly in on-line case discussions within individual groups
Total	100%	2. Summarize group work as assigned. 3. Complete all assignments. 4. Achieve a combined average of 50% in exams. 5. Achieve a final mark of 50%.

Students who do not meet the participation requirement or who do not comply with other BCIT Policies will receive an Unsatisfactory standing and will therefore not pass this course.

Course Learning Outcomes/Competencies

The student will:

1. Apply knowledge of pharmacokinetics and pharmacodynamics to selected drug categories.
2. Use a drug classification system as an information source for selected drugs.
3. Relate specific drug action(s) to human physiology and/or pathophysiology to predict therapeutic and adverse effects.
4. Explain assessments required when administering medications and monitoring patients for therapeutic drug effects, adverse effects, toxicity and drug interactions.
5. Discuss nursing responsibilities related to health promotion and patient teaching.
6. Discuss a variety of legal and ethical nursing issues related to pharmacology.
7. Apply selected pharmacological concepts and principles to patient situations.
8. Demonstrate on-line learning skills including accessing course materials and resources, communicating via e-mail, bulletin board discussion groups, seminars and taking exams.

Process Threads

Professionalism

Students develop a knowledge base regarding complex health problems and pharmacology. They anticipate and prepare for possible patient care problems on acute nursing units. They explore cases and respond with sound clinical judgement and advocate for the patient. Students explore the curative/restorative aspects of pharmacology.

Communication

Students improve computer literacy by using Internet course material and resources and by communicating by e-mail and asynchronous and synchronous discussion groups. Students thoughtfully discuss case questions via bulletin board. Students use word processing in compiling group assignments. Students facilitate group functioning to achieve course goals.

Systematic Inquiry

Students use questioning and feedback to help them think critically. Students compare their own work to work done by others and take action to improve own clinical decision making. Students develop independent clinical reasoning. Students develop creative strategies when addressing problems by considering alternative ways of viewing a situation.

Professional Growth

Students focus on facilitating group learning by sharing accurate, relevant information in a professional manner. Students assume responsibility for learning and becoming self-starters. Students value continually updating pharmacology knowledge. Students are responsible and accountable for their actions.

Creative Leadership

Students use facilitation skills within groups so they function productively. They demonstrate credibility, accountability, assertiveness, problem solving, judgment and initiative within groups. Students propose creative ways of solving problems related to drug therapy.

Technical Skill

In the case studies they are studying, students discuss rationales and nursing responsibilities related to administration of medications and to the assessment of patients who receive medications. Students calculate safe doses, calculate infusion rates, problem solve how to deal with incompatibility issues and propose age-related adaptations in relation to drug therapy. Students develop skills in using educational technology.

Required Learning Resources

1. Aschenbrenner, D. S. & Venable, S. J. (2006). Drug therapy in nursing (2nd ed). New York: Lippincott.
2. ~~Canadian Nurses Association. (2002). Code of ethics for registered nurses. Ottawa: Author.~~
3. CRNBC (2006). Standards for registered nursing practice in British Columbia.

Vancouver:

4. A pharmacology handbook is required. Spratto, R. G. & Woods, A. L. (2005). PDR Nurse's Drug Handbook (2005 ed). Thomson Delmar Learning: New York, is highly recommended and is the standard for this course.
5. A medical-surgical text is required.
6. A diagnostic tests handbook is required.

Information for students (summarized from course outline)

Assignments: Late assignments will not be accepted for marking. Assignments must be done on a group basis unless otherwise specified by the instructor.

Makeup Exams: There will be no makeup exam unless documented medical reason or extenuating circumstances. If you miss an exam without prior arrangement, you will receive **zero** marks. The instructor must be notified prior to the scheduled exam.

Ethics: BCIT assumes that all students attending the Institute will follow a high standard of ethics. See link to online policy on cheating and plagiarism below. Incidents of cheating or plagiarism may result in a grade of **zero** for all the work involved, for all of the parties involved.

Attendance: The attendance policy will be enforced. See link below. Attendance will be based on weekly online discussion postings and monthly seminars.

Illness: A doctor's note is required for any illness causing you to miss assignments or exams. At the discretion of the instructor, you may complete the work missed or have the work prorated. See Student Medical Certificate form.

Attempts: Students must successfully complete a course within a maximum of three attempts at the course. Students with two attempts in a single course will be allowed to repeat the course only upon special written permission from the Associate Dean. Students who have not successfully completed a course within three attempts will not be eligible to graduate from the appropriate program.

Course Outline Changes: The material or schedule specified in the printed course outline may be changed by the instructor. If changes are required, they will be announced via mail and the course schedule and the online calendar.

The following BCIT policies apply to this course and can be viewed by clicking on the policy name:

Policy #5013 Course Outlines

Policy #5410 Evaluation of students

Policy #5250 Cheating and Plagiarism

Policy #5201 Attendance

Policy #3501 Responsible Use of Information Technology

Policy #5251 Student Conduct

BCIT Nursing Program Policies - click on Links in the Action Menu.

Online learning strategies will be used to assist the learner to develop their knowledge of pharmacology and related legal and ethical issues. Concepts and principles of pharmacology will be explored using patient case discussions, accessing databases, instructor consultation and small group seminars.

The course will commence with an orientation to online learning. The student will be expected to demonstrate online learning skills including accessing resources and communicating via mail.

Students will participate in ongoing evaluation of the course. Students are welcome to provide evaluative comments throughout the course. A course evaluation survey will be completed at the end of the term.

Examination Details

Two online examinations are scheduled for this course. The midterm exam is scheduled for Week 10 and the final exam will be scheduled during exam week.

Midterm Exam (online)

40% of final mark

The midterm is a 2 hour open-book exam that includes multiple choice questions and a

problem-based patient care exercise. The exam includes course content from modules 1 - 4.

Multiple choice questions: 15 marks

Problem-based exercise: 30 marks

In part 1 of the problem-based exercise, the student will be presented with initial information on the patient case. The student must **explain** at least five pharmacological issues and/or concerns related to the case. In part 2 of the problem-based exercise, the student will be provided with additional information on the patient case. The student will then **list** additional issues and concerns, and **explain the specific actions** they will take to provide safe and effective drug therapy for this patient. The patient case includes **key issues and concerns** that must be addressed to receive full marks.

Marks will be distributed as: 10 marks for part 1

20 marks for part 2

Total: 30 marks

**Final Exam (online)
mark**

40% of final

The final exam is a 2 hour open-book exam that will focus on course content in Modules 5 - 7.

Multiple choice questions: 15 marks

Problem-based exercise: 30 marks

In the problem-based exercise, the student will be presented with a patient case. For part 1 of the problem-based exercise, the student must **list** at least five **pharmacological** issues and/or concerns related to the patient's at-home and/or pre-operative drug therapy, and provide an **explanation** of how these issues and/or concerns **relate to the patient**. For part 2 of the problem-based exercise, the student will identify issues and/or concerns related to the patient's current in-hospital drug therapy and anticipated discharge. For each issue or concern, the student will describe **appropriate actions or nursing interventions, and explain the rationale for these actions/interventions**. The patient case includes **key issues and concerns** that must be addressed to receive full marks.

Marks will be distributed as: 10 marks for part 1

20 marks for part 2

Total: 30 marks

NOTE: Open book permits the use of the course textbook and drug handbook **ONLY** during the exams. Access to any other resource such as personal notes from the course material or online resources is strictly prohibited.

STUDENTS MUST ACHIEVE A COMBINED AVERAGE OF 50% ON THESE EXAMS TO PASS THE COURSE.

**Case Work and Assignment Details
mark**

20% of final

The assignments in this course involve weekly patient case discussions and two interactive seminars. Students will be evaluated on the quality of their work, reporting skills, communication between group members and instructor, and the ability to make work succinct but accurate.

Students need to access the course at a minimum, on a weekly basis. Assignments must meet

level 3 requirement for content depth, accuracy and thoroughness. Students' work must reflect application of theory to practice situations.

As assigned, students must assume reporting responsibilities for their group and post assignments on time, in the correct location and in the correct format. Students must participate in all seminars.

Case work marks are awarded for group work and reports.

PLEASE NOTE: ALL GROUP WORK IS DUE BY SUNDAY AT MIDNIGHT.

Course Schedule

Please refer back to the online schedule/calendar for up-to-date information on the class schedule.

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