



**UNIVERSITY OF ALBERTA
COLLABORATIVE BACCALAUREATE
NURSING PROGRAM
KEYANO COLLEGE**

COURSE SYLLABUS

NURSING 115

PHARMACOTHERAPEUTICS IN NURSING

JANUARY 8, 2014 - APRIL 16, 2014

Tutors:

Valetta Lawrence **RN BScN MHS**

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R: 2013/12

NURSING 115

PHARMACOTHERAPEUTICS IN NURSING

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PHARMACOTHERAPEUTICS IN NURSING COURSE OUTLINE

CALENDAR STATEMENT:

NURS 115 Pharmacotherapeutics in Nursing focuses on the mechanisms of action of drugs, their therapeutic uses and side-effect profile. General principles related to drug absorption, distribution, metabolism, and excretion will be addressed. The nursing role in promoting optimal therapeutic regimens and in the management of side/adverse effects will be included.

COURSE HOURS

Lecture - 3, Lab - 0, Clinical – 0 per week for 14 weeks.

COURSE DESCRIPTION:

The course begins with an introduction to drug classification and regulation – from discovery to the patient. The foundations of pharmacodynamic and pharmacokinetic principles will be introduced. Four fundamental domains of drug movement and modifications will be studied: drug absorption, distribution, metabolism, and excretion (i.e., pharmacokinetics).

To illustrate how the principles involved in pharmacotherapeutics need to be incorporated into professional nursing practice; examples of prototypic drugs from each drug class will be used.

Brief scenarios will be used to contextualize pharmacology within the clinical setting. Safe, evidence-based practice will be emphasized.

TUTOR INFORMATION:

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Phone (Cell): 587-645-1150
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Office Hours:

The Tutor is available for student consultation in office from Monday to Friday (outside of clinical hours). Please contact your tutor at the number above or contact the Nursing Office at (780) 791-4889 to arrange a time.

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COURSE OBJECTIVES:

Upon completion of NURS 115, the nursing student will be able to:

1. Demonstrate an understanding of the basic concepts related to the pharmacodynamic principles underlying drug action in the human body.
2. Demonstrate an understanding of the basic pharmacokinetic principles related to movement of drugs within the human body.
3. Demonstrate an understanding of the classification, nature, properties and effects of drugs.
4. Demonstrate an understanding of the role of nursing and the health team in promoting client education optimal therapeutic regimens, and in the management of side/adverse effects.
5. Demonstrate an understanding of how individual differences account for differences in drug response.
6. Integrate principles of drug therapies into professional practice.
7. Demonstrate an understanding of ethical and legal principles related to the administration of pharmacological agents.

REQUIRED RESOURCES:

Adams, M. P., Holland Jr., L. N., & Bostwick, P. M., & King, S. L. (2010). *Pharmacology for nurses: A pathophysiologic approach*. (Cdn. ed.) Toronto, ON: Pearson Canada.

Predham, B., & Buchholz, S. (2010). *Henke's med-math. (1st Canadian ed.)*. Philadelphia, PA: Lippincott Williams & Wilkins.

Drug book as required for each year of program.

**Required reading(s) and Guiding Questions for each class can be found on Moodle.
Required readings are to be done prior to each class.**

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NURSING PROGRAM POLICIES

Please refer to the Keyano College Nursing Program Student Handbook for specific Nursing program policies and to the Keyano College Calendar for general college policies.

Refer to Keyano College Calendar for Student Rights and Responsibilities, Misconduct and Discipline, and Student Appeal Procedure.

SPECIALIZED SUPPORTS AND DUTY TO ACCOMMODATE

Disability Support Services: Learner Assistance Program

If you have a documented disability or you think that you would benefit from some assistance from a Disabilities Counsellor, please call or visit the Disability Supports Office 780-792-5608 to book an appointment (across from the library). Services and accommodations are intended to assist you in your program of study, while maintaining the academic standards of Keyano College. We can be of assistance to you in disclosing your disability to your instructor, providing accommodations, and supporting your overall success at Keyano College.

Specialized Supports and Duty to Accommodate

Specialized Support and Duty to Accommodate are aligned with the office of Disability Support Services: Learner Assistance Program (LAP) guided by federal and provincial human rights legislation and defined by a number of Keyano College policies. Keyano College is obligated by legislation to provide disability-related accommodations to students with identified disabilities to the point of undue hardship.

GUIDING QUESTIONS

Guiding questions are provided on Moodle for each lecture. These questions are designed to help students focus on important points in each chapter of the textbook. In addition, for all different types of medications the mechanisms of action, drug effects, indications, interactions, contraindications, side and toxic effects, and nursing considerations need to be addressed. This information will be referred to as '**prototype information**' in the guiding questions. This information will come from the textbooks as well as the drug guide. All information is testable.

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OVERVIEW OF COURSE EVALUATION

To pass Nursing 115, the student must successfully complete all course requirements and receive a passing grade (C-) in the course.

1.	Midterm #1 Examination	(February 5 th , 2014)	30%
2.	Midterm #2 Examination	(March 19 th , 2014)	30%
3.	Final Examination	(April 23 rd , 2014)	30%
4.	Weekly quizzes		<u>10%</u>
Total			100%

COURSE EVALUATION REQUIREMENTS

Midterm Examination #1 - (30%)

This exam will take place on Wednesday, February 5th (1830h-2130h) and consist of multiple choice and short answer questions. Content covered will be from weeks 1-4 inclusive.

Midterm Examination #2 - (30%)

This exam will take place on Wednesday, March 19th (1830h-2130h) and consist of multiple choice and short answer questions. Content covered will be from weeks 6 - 10 inclusive.

Final Examination – (30%)

This exam will take place on Wednesday, April 23rd (1830 – 2130h) and consist of multiple choice and short answer questions. Content covered will be from weeks 11 – 15 inclusive.

Weekly Quizzes - (10%)

Each week a quiz to assess student knowledge will be available on Moodle. The weekly quiz will be opened on Wednesday after class and closes at 2200 hours Thursday. After 2200 hours the quiz will no longer be accessible and a grade of zero will be assigned to any student who has not completed that week's quiz. All quiz marks will be combined for a final grade and count for 10% of the final course grade.

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CLASS SCHEDULE

The following is the class schedule. The weekly required readings and guiding questions on Moodle are expected to be completed **prior** to class. Course content will be presented using discussion and lecture.

Week	Date (2014)	Time	Topic(s)	Room
Week 1	January 8 th	1830 – 2130	Course Orientation Unit 1: Introduction to Pharmacology: Drug Regulation & Approval, & Drug Classes & Schedules	273
Week 2	January 15 th	1830 – 2130	Unit 1: Pharmacokinetics & Pharmacodynamics	273
Week 3	January 22 nd	1830 – 2130	Unit 2: Pharmacology & the Nurse-Patient Relationship	273
Week 4	January 29 th	1830 – 2130	Unit 3: Professional, Personal, & Cultural Influences in Pharmacotherapy	273
Week 5	February 5th	1830 – 2130	MIDTERM #1 EXAM (30%)	TBA
Week 6	February 12 th	1830 – 2130	Unit 4: The Nervous System	273
Week 7	February 19 th	1830 – 2130	Unit 4: The Nervous System	273
<i>READING WEEK (February 26th)</i>				
Week 9	March 5 th	1830 – 2130	Unit 5: The Cardiovascular System	273
Week 10	March 12 th	1830 – 2130	Unit 5: The Cardiovascular and Respiratory Systems	273
Week 11	March 19th	1830 – 2130	MIDTERM #2 EXAM (30%)	TBA
Week 12	March 26 th	1830 – 2130	Unit 6: The Immune System	273
Week 13	April 2 nd	1830 – 2130	Unit 7: The Gastrointestinal System	273
Week 14	April 9 th	1830 – 2130	Unit 8: The Endocrine and Genitourinary Systems	273
Week 15	April 16 th	1830 – 2130	Unit 9: The Musculoskeletal System, Integumentary System and Eyes/Ears	273
Week 16	April 23 rd	1830 – 2130	FINAL EXAM (30%)	TBA

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APPENDIX A

Keyano College Percentage- Alpha Grading System

Descriptor	Percentage Scale	Alpha Scale
Excellent	96-100	A+
	90-95	A
	85-89	A-
Good	80-84	B+
	76-79	B
	72-75	B-
Satisfactory	68-71	C+
	64-67	C
Minimum Pass	60-63	C-
Poor	55-59	D+
	50-54	D
Failure	0-49	F

This course outline has been reviewed and approved by the Program Chair.

Instructor Name, Instructor

Instructor Name, Instructor

Bev Maron, Chair

Date Authorized

Guy Harmer, Dean

Date Authorized

Signed copies to be delivered to:

Instructor
Registrar's Office