

Nursing 115



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

COURSE SYLLABUS

NURSING 115

PHARMACOTHERAPEUTICS IN NURSING

JANUARY 5, 2016– APRIL 15, 2016

This course at Keyano is numbered NURS 215 at U of A

Instructor:

Candi Muise BScN RN MN

R: 2015/04

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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.

Co-requisites: NURS 206/207/208/209.

COURSE HOURS PER WEEK:

Lecture: 3 Lab: 0 Seminar: 0

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:

Candi Muise BScN RN MN
Phone (Office): 780-791-8921
Office: S109D
e-mail: candi.muise@keyano.ca

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Instructor Office Hours:

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

Email:

Please allow 1-2 school days for a response. Include “N115” in your subject line.

LEARNING OUTCOMES:

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 actions 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 LEARNING EXPERIENCES:

NURS 115 Lectures: Students will work with the instructor in class to acquire necessary information for pharmacotherapeutics. Attendance is an expectation. In addition, you will need to spend approximately 1-3 hours on Moodle N115 course site each week.

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TEXTBOOKS AND RESOURCES:

The following are textbooks and resources required or recommended specifically for this course. Other required/recommended program-wide textbooks/resources are listed on yearly resource lists.

REQUIRED TEXTBOOKS:

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 COURSE RESOURCES:

The faculty of Nursing creates a Moodle site for all undergraduate courses. Students are expected to access and become familiar with this site at the beginning of each course and to access their site on a regular basis throughout the course. Failure to do so may result in students missing important course-related information, resources, instructor feedback and announcements. Students must log into Moodle prior to the beginning of NURS115 and access all available resources on Moodle.

RECOMMENDED TEXTBOOKS:

Lippincott Williams & Wilkins (2013). *Nursing pharmacology made incredibly easy*. (3rd ed.). Ambler, PA: Lippincott Williams & Wilkins | Wolters Kluwer Health.

**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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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. (See Appendix A).

Evaluation Type	Weight	Comments
Exam 1 (computer-based)	20%	Units 1-3 inclusive
Exam 2 (computer-based)	20%	Unit 4
Exam 3 (computer-based)	20%	Unit 5
Final Exam (computer-based)	40%	Cumulative

COURSE EVALUATION REQUIREMENTS

Examination #1 - (20%)

This exam will consist of 75 multiple choice questions. Content covered will be from Units 1-3 inclusive.

Examination #2 - (20%)

This consist of 50 multiple choice questions. Content covered will be from Unit 4 inclusive.

Examination #3 – (20%)

This exam will consist of 50 multiple questions. Content covered will be from Units 5 inclusive.

Final Examination – (40%)

This exam will consist of 100 multiple choice questions. It is a cumulative final exam.

Weekly Quizzes

Each unit has a quiz to assess student knowledge and will be available on Moodle. The quiz will be opened up after class and closes at 2200 hours. After 2200 hours the quiz will no longer be accessible.

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ASSIGNMENT OF FINAL GRADE:

All evaluative components are marked as raw scores according to the percentage weight assigned to each. At the end of the course, all scores are totaled for a term summary mark in the course. The final percent grade is converted to an Alpha grade

ABSENCE FROM QUIZZES AND EXAMS:

If you are ill and unable to write an exam, you must let the tutor know prior to the exam so that other arrangements can be made. Please call the tutor or the Administrative Assistant at 780-791-4889. If there is no answer, you must leave a message about the absence. Failure to call prior to the exam will result in a failure for that exam.

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:

Students with Disabilities

It is the College's goal that learning experiences be as accessible as possible. If you anticipate or experience physical or academic barriers based on disability, please let Disability Services know immediately so that you can discuss options. You are also welcome to contact Disability Services (780-791-8934) to establish reasonable accommodations.

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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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COURSE SCHEDULE:

Class	Topic(s)
Class 1	Course Orientation Unit 1: Introduction to Pharmacology: Drug Regulation & Approval, & Drug Classes & Schedules
Class 2	Unit 1: Pharmacokinetics & Pharmacodynamics
Class 3	Unit 2: Pharmacology & the Nurse-Patient Relationship
Class 4	Unit 3: Professional, Personal, & Cultural Influences in Pharmacotherapy
Class 5	Exam #1 (20%)
Class 6	Unit 4: The Nervous System
Class 7	Unit 4: The Nervous System
Class 8	Exam #2 (20%)
Class 9	Unit 5: The Cardiovascular System
Class 10	Unit 5: The Cardiovascular and Respiratory Systems
Class 11	Exam #3 (20%)
Class 12	Unit 6: The Immune System
Class 13	Unit 7: The Gastrointestinal System
Class 14	Unit 8: The Endocrine and Genitourinary Systems
Class 15	Unit 9: The Musculoskeletal System, Integumentary System and Eyes/Ears
Exam Week April 18-22/16	Final Examination (40%)

*Please see Course Timetable for dates, times and locations of classes. Course Timetable is located on Moodle for NURS 115.

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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



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Pharmacotherapeutics in Nursing

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

Candi Muise, BScN RN MN Instructor

Bev Maron, Chair

Date Authorized

Vincella Thompson, Dean

Date Authorized

Signed copies to be delivered to:

Instructor

Registrar's Office