

Nursing 215



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

COURSE SYLLABUS

NURSING 215

PHARMACOTHERAPEUTICS IN NURSING

SEPTEMBER 4, 2018 – DECEMBER 14, 2018

Instructor:

Louise Peterson, BScN, RN, OHN

R: 2018/04

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PHARMACOTHERAPEUTICS IN NURSING COURSE OUTLINE

CALENDAR STATEMENT:

NURS 215 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 201/202/309/310.

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.

INSTRUCTOR INFORMATION:

Louise Peterson BScN, RN, OHN
Phone (Office): 780-792-5727
Office: S109 E
e-mail: louise.peterson@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 "N215" in your subject line.

LEARNING OUTCOMES:

Upon completion of NURS 215, 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 215 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 N215 course site each week.

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.

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REQUIRED TEXTBOOKS:

Adams, M. P., Urban, C. Q., El-Hussein, M., Osuji, J., & King, S. L. (2018). *Pharmacology for nurses: A pathophysiologic approach*. (Cdn. 2nd 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 NURS215 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.**

OVERVIEW OF COURSE EVALUATION:

To pass Nursing 215, the student must successfully complete all course requirements and receive a passing grade (C-) in the course. (See Appendix A).

| Evaluation Type | Weight | Comments |
|-----------------|--------|----------|
|-----------------|--------|----------|

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| | | |
|-----------------------------|-----|---------------------|
| 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

EXAMINATIONS

Expectations of Students Writing On-Line Exams

1. Students are responsible for accessing the exam from a location and computer of their choice. The student is responsible for discussing any computer/internet issues with the Instructor at least two days prior to the exam date listed on the course timetable.
2. Quizzes and exams are not open book exams. The quiz or exam is to have been studied for prior to the quiz/exam date and is to be completed independently; that is by oneself, not in collaboration with, or company of, another person or persons. No photos of quiz/exam questions are to be taken via phones or any other electronic device.
3. Once the quiz/exam has started, the student will submit their answers immediately before going on to the next question. The student will not be able review/change answers.
4. Students must ensure they have a reliable internet connection.
5. If students are writing from outside Fort McMurray or in another province, it is the students' responsibility to ensure the time change is adhered to. That is if the exam is to start at 0900 hours Alberta time and is being written in Ontario, then the time to begin the exam is at 1100 hours Ontario time. It is **strongly recommended** that students write within Alberta as Moodle may not be supported outside of the province. Students must seek permission from instructor if writing a quiz/exam outside of the province.
6. Time for online quizzes/exams will be strictly adhered to. For example, if a quiz is for thirty minutes it will be open for exactly thirty minutes. The instructor will let the student know the exact time of the quiz/exam.
7. No grades will be released until the instructor has had time to review the quiz/exam stats. Once the review has been done, the marks will be released. Review of quiz/exam questions in class will be done at the instructors' discretion.

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8. If any arises during the taking of the quiz/exam, the student is to contact the instructor immediately at the time of the issue.

9. It is the responsibility of each student to be familiar with the contents of the Student Code of Conduct. At the beginning of January 2016, it has been mandatory that all students sign a form identifying they have read/or are familiar with the Student Code of Conduct. First, Second, and Third year students will have read or are familiar with the Keyano College Student Code of Conduct. Fourth year students will identify they are familiar with the University of Alberta Student Code of Conduct.

Examination #1 - (20%)

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

The examinations cover content from readings, PowerPoints, class activities and content from class lecture/discussion. The student will only have one attempt to complete the exam once it has started. The online exam must be completed within the allotted time frame on the assigned date. The exam can be accessed via Moodle during the allotted time identified on the course timetable and is not flexible on date/time. The student will submit their answers immediately before going on to the next question. The student will not be able to review/change answers during or at the end of the exam. This is not an open-book examination. This examination is to have been studied for prior to the examination date and is to be completed independently; that is by oneself, not in collaboration or company of another person.

Students are responsible for accessing the exam from a location and computer of their choice, including a personal or Keyano College computer. The student is responsible for discussing any computer/internet access issues with the Instructor at least one day prior to the exam date listed on the course timetable. Students are responsible to ensure they have a secure internet connection; WiFi is not a secure connection to the internet and may result in an internet disruption. Instructor(s) will be available via telephone during the final examination to report any technology issues. Should any issue arise during the exam, students are responsible to contact their instructor immediately at the time of the issue.

Examination #2 - (20%)

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

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The examinations cover content from readings, PowerPoints, class activities and content from class lecture/discussion. The student will only have one attempt to complete the exam once it has started. The online exam must be completed within the allotted time frame on the assigned date. The exam can be accessed via Moodle during the allotted time identified on the course timetable and is not flexible on date/time. The student will submit their answers immediately before going on to the next question. The student will not be able to review/change answers during or at the end of the exam. This is not an open-book examination. This examination is to have been studied for prior to the examination date and is to be completed independently; that is by oneself, not in collaboration or company of another person.

Students are responsible for accessing the exam from a location and computer of their choice, including a personal or Keyano College computer. The student is responsible for discussing any computer/internet access issues with the Instructor at least one day prior to the exam date listed on the course timetable. Students are responsible to ensure they have a secure internet connection; WiFi is not a secure connection to the internet and may result in an internet disruption. Instructor(s) will be available via telephone during the final examination to report any technology issues. Should any issue arise during the exam, students are responsible to contact their instructor immediately at the time of the issue.

Examination #3 – (20%)

This exam will consist of 50 multiple questions. Content covered will be from Units 5 inclusive. The examinations cover content from readings, PowerPoints, class activities and content from class lecture/discussion. The student will only have one attempt to complete the exam once it has started. The online exam must be completed within the allotted time frame on the assigned date. The exam can be accessed via Moodle during the allotted time identified on the course timetable and is not flexible on date/time. The student will submit their answers immediately before going on to the next question. The student will not be able to review/change answers during or at the end of the exam. This is not an open-book examination. This examination is to have been studied for prior to the examination date and is to be completed independently; that is by oneself, not in collaboration or company of another person.

Students are responsible for accessing the exam from a location and computer of their choice, including a personal or Keyano College computer. The student is responsible for discussing any computer/internet access issues with the Instructor at least one day prior to the exam date listed on the course timetable. Students are responsible to ensure they have a secure internet connection; WiFi is not a secure connection to the internet and may result in an internet disruption. Instructor(s) will be available via telephone during the final examination to report any

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technology issues. Should any issue arise during the exam, students are responsible to contact their instructor immediately at the time of the issue.

Final Examination – (40%)

This exam will consist of 100 multiple choice questions. It is a cumulative final exam. The examinations cover content from readings, PowerPoints, class activities and content from class lecture/discussion. The student will only have one attempt to complete the exam once it has started. The online exam must be completed within the allotted time frame on the assigned date. The exam can be accessed via Moodle during the allotted time identified on the course timetable and is not flexible on date/time. The student will submit their answers immediately before going on to the next question. The student will not be able to review/change answers during or at the end of the exam. This is not an open-book examination. This examination is to have been studied for prior to the examination date and is to be completed independently; that is by oneself, not in collaboration or company of another person.

Students are responsible for accessing the exam from a location and computer of their choice, including a personal or Keyano College computer. The student is responsible for discussing any computer/internet access issues with the Instructor at least one day prior to the exam date listed on the course timetable. Students are responsible to ensure they have a secure internet connection; WiFi is not a secure connection to the internet and may result in an internet disruption. Instructor(s) will be available via telephone during the final examination to report any technology issues. Should any issue arise during the exam, students are responsible to contact their instructor immediately at the time of the issue.

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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 instructor know prior to the exam so that other arrangements can be made. Please call the instructor 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 welcome to contact Disability Services (780-791-8934) or drop in at CC -167 (across from the Library) 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 September 10 | Course Orientation Unit 1: Introduction to Pharmacology: Drug Regulation & Approval, & Drug Classes & Schedules |
| | Unit 1: Pharmacokinetics & Pharmacodynamics |
| Class 2 September 14 | Unit 2: Pharmacology & the Nurse-Patient Relationship |
| | Unit 3: Professional, Personal, & Cultural Influences in Pharmacotherapy |
| Class 3 September 17 | Exam #1 (20%) |
| Class 4 September 24 | Unit 4: The Nervous System |
| Class 5 October 1 | Unit 4: The Nervous System |
| Class 6 October 5 | Exam #2 (20%) |
| Class 7 October 15 | Unit 5: The Cardiovascular System |
| Class 8 October 22 | Unit 5: The Cardiovascular and Respiratory System |
| Class 9 October 29 | Exam #3 (20%) |
| Class 10 November 5 | Unit 6: The Immune System |
| No Class November 12 | Remembrance Day |
| Class 11 November 19 | Unit 7: The Gastrointestinal System |
| Class 12 November 26 | Unit 8: The Endocrine and Genitourinary System |
| Class 13 December 3 | Unit 9: The Musculoskeletal System, Integumentary System and Eyes/Ears |
| Exam Week December 10 | Final Examination (40%) |

*Please note class day and/or time changes. Classes are on either Monday or Friday mornings from 0900-1150 hours located in Room(s) _____. Course Timetable is located on Moodle for NURS 215.

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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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Student Course Agreement

I, _____, agree that I have read the syllabus in detail. I agree that I understand the contents of the syllabus, and if I did not, I have asked my instructor for clarification immediately (prior to turning this agreement in). I agree to all terms of the syllabus and I agree to adhere to all terms aforementioned. Should the above conditions not be met I understand this may affect my success in the course.

Date:

Print Name:

Signature:

Instructor Signature: