



UNIVERSITY OF ALBERTA
Faculty of Nursing Undergraduate Programs
BScN COLLABORATIVE PROGRAM
Grande Prairie Regional College, Keyano College,
Red Deer College, University of Alberta



NURS 116
PATHOPHYSIOLOGY AND PHARMACOLOGY I
COURSE OUTLINE

**Note: students are expected to familiarize themselves with this course outline,
the BScN Program Student Handbook and Moodle site.**

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Calendar statement

NURS 116 – Pathophysiology and Pharmacology I

★3 The focus is the application of human anatomy and physiology to the concepts of pathophysiology and pharmacology. The course focuses on alterations to normal physiology and introduces the concepts of pharmacokinetics and pharmacodynamics in relation to alterations in health. Note: Available only to nursing students in the Collaborative Program. Prerequisites: MMI 133, NURS 106 (or NURS 140 and 150), and NURS 120 (or NURS 103). Students must achieve a minimum grade of C+ in order to progress in the program. Credit may be obtained for only one of NURS 116 or 113.

Course hours (for this term)

Lecture: 3 hrs/week

Seminar: 0

Lab: 0

Course Learning Outcomes

Upon completion of this course, the student will be able to:

1. Link knowledge of anatomy and physiology to pathophysiological and pharmacotherapeutic concepts.
2. Demonstrate theoretical understanding of pathophysiology as it relates to changes in health status.
3. Demonstrate theoretical understanding of pharmacokinetic and pharmacodynamic principles in pharmacotherapeutics.
4. Describe the pharmacotherapeutic classification, mechanism of action, properties, and effects of drugs.
5. Explain the relationship between pathophysiological concepts and pharmacotherapeutic concepts at a novice level.
6. Apply the pathophysiology and pharmacotherapeutic concepts to focused non-complex clinical examples at a novice level.
7. Identify the nursing implications in relation to pathophysiology and pharmacotherapeutics at a novice level.
8. Predict common trajectories for pathophysiological processes and pharmacotherapeutic treatments at a novice level.

Course Instructor

Title	Name	Office number	Phone number	email
Faculty	Katie Saporsky katie.saporsky@keyano.ca	CC187C	780-791-8906	

Note:

- Please allow 2 business days for a response. Include “NURS 106” in your subject line.
- Professional and respectful communication is expected.

Communication:

It is the students’ responsibility to ensure that they check Moodle courses at minimum of twice daily, once in morning and evening. It is recommended to check Moodle more frequently. It is the students’ responsibility to ensure thorough review of all resources and content on the Moodle course site. The instructors have placed many resources and documents to ensure the students’ success in each course.

Instructors will communicate with the student group by announcements in the news forum on Moodle. Please ensure that you check this at least twice daily.

It is the students’ responsibility to check their Keyano College email at minimum of twice daily, once in morning and again in evening. It is recommended to check email more frequently. Please note that the method to contact your instructor is email. Please allow a 48 hour minimum response time from your instructor on business days. Instructors will not be checking emails on evenings and weekends/holidays. Do not text or call your instructor unless you will be absent for clinical that day; inquiries related to assignments and course content will be sent in an email to your instructor.

Required textbooks

(Note: Foundations textbooks will be used as references throughout the program. Please retain your copies as they will be required resources in future courses).

Adams, M. P., Urban, C. Q., El-Hussein, M., Osuji, J., & King, S. (2017). *Pharmacology for Nurses: A Pathophysiological Approach*, Second Canadian Edition (2nd ed.). Pearson Canada

Hannon, R.A. & Porth, C. (2017). *Porth pathophysiology: Concepts of altered health states* (2nd Canadian ed.). Philadelphia: Wolters Kluwer.

Required resources

College and Association of Registered Nurses of Alberta. (2013). *Entry-to-practice competencies for the registered nurses profession*. Edmonton, AB: Author. Retrieved from

http://www.nurses.ab.ca/content/dam/carna/pdfs/DocumentList/Standards/RN_EntryPracticeCompetencies_May2013.pdf

College and Association of Registered Nurses of Alberta (2010). *Ethical decision-making for registered nurses in Alberta: Guidelines and recommendations*. Edmonton: Author. Retrieved from http://www.nurses.ab.ca/content/dam/carna/pdfs/DocumentList/Guidelines/RN_EthicalDecisions_May2010.pdf

College and Association of Registered Nurses of Alberta. (2013). *Practice standards for regulated members with The Canadian Nurses Association code of ethics for registered nurses*. Edmonton: Author. Retrieved from http://www.nurses.ab.ca/content/dam/carna/pdfs/DocumentList/Standards/PracticeStandards_CNA_Ethics_2008.pdf

College and Association of Registered Nurses of Alberta. (2008). *Primary health care*. Edmonton, AB: Author. Retrieved from http://www.nurses.ab.ca/content/dam/carna/pdfs/DocumentList/Guidelines/PrimaryHealthCare_Sep2008.pdf

College and Association of Registered Nurses of Alberta. (2011). *Professional boundaries for registered nurses: Guidelines for the nurse-client relationship*. Edmonton, AB: Author. Retrieved from http://www.nurses.ab.ca/content/dam/carna/pdfs/DocumentList/Guidelines/RN_ProfessionalBoundaries_May2011.pdf

Faculty of Nursing, University of Alberta. (2017). *Graduate Competencies and Year-End Outcomes Condensed Version Rev. 2.0*. Retrieved from Moodle Nurse 001Skills/Resources/Policies/Surveys course.

Recommended Textbooks & Resources

Course evaluation

Assignments/Course components	Dates	Weight	Course objectives no.
1) In-class assessments (e.g., exams, quizzes, assignments, participation)	TBA	65%	1-8
2) Final Exam--Cumulative	TBA	35%	1-8

Assignments descriptions

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1) In-class Assessments (e.g., exams, quizzes, assignments, participation).

At least three assessments shall be administered. Assessment value shall range from 5 - 25% each. No single assessment will be worth less than 5% or more than 25%. Details will be announced in advance. In case of exams and quizzes, various question styles may be used. In case of assignments, an outline and an evaluation rubric will be provided. In case of class participation, expectations will be clearly outlined.

2) Final Examination

Covers all course material. Details will be announced in advance. Registrar's office scheduling date, time, and exam location. Time limitation is strictly applied.

Final grades

The assignments are marked as raw scores according to the percentage weight assigned to each. The marks on course assignments will contribute to the overall letter grade according to the percentage that each assignment is weighted in the course. At the end of the course, all assignment scores are totaled for a term summary mark in the course based on the grading scale below. The FINAL COURSE GRADE is based on the cumulative total of individual student's weighted assignment marks.

Grading rubric is located in Appendix A.

Deferred final exams:

A student who has missed a final exam because of incapacitating mental and/or physical illness, severe domestic affliction or for circumstances as described in Keyano College's Examination Policy in the Credit Calendar. Students are required to follow the process outlined in the policy should they wish to apply for a deferred exam.

Policy statements:

The course outline acts as an agreement between the student and the instructor of this class regarding the details of the course.

Keyano College is committed to the highest standards of academic integrity and honesty. Students are expected to be familiar with these standards regarding academic honesty and to uphold the policies of the College in this respect. Students are particularly urged to familiarize themselves with the provisions of the Academic Policies and Student Rights and Code of Conduct and avoid any behavior which could potentially result in suspicions of cheating, plagiarism, misrepresentation of facts and/or participation in an offence. Academic dishonesty is a serious offence and can result in suspension or expulsion from the College.

Audio or video recording, digital or otherwise, of lectures, labs, seminars or any other teaching environment by students is allowed only with the prior written consent of the instructor or as a part of an approved accommodation plan. Student or instructor content, digital or otherwise, created

and/or used within the context of the course is to be used solely for personal study, and is not to be used or distributed for any other purpose without prior written consent from the content author(s).

Students wishing to proceed in the Nursing program must achieve a grade of at least C+ in the foundational Nursing courses. Policy regarding the foundational course minimum pass can be found in the Keyano College Credit Calendar.

Please refer to the Nursing Program Student Handbook for specific Nursing Program Policies, including, attendance, examinations, withdrawal dates for classes, and plagiarism.

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

Please refer to the Student Handbook and review the Student Code of Conduct Policy (Policy 110.0), Student Rights Policy (Policy 111.0) and Student Code of Conduct Procedure (110.1). It is expected that you will review and be aware of expectations relative to student rights, responsibilities and behavior.

Late Assignments

All assignments are to be submitted as indicated in the syllabus and timetable. Extensions on assignments may be granted; however, must be negotiated with the Instructor prior to the due date and with a date specified for late submissions. Assignments not submitted on the day and time specified will incur a 5% deduction per day including weekends. This will be applied each day until the assignment is received by the instructor. Students can submit assignments by e-mail on weekends, but must provide a paper copy on the first day following the weekend.

If the student does not submit an assignment by course end date and prior to the final exam date, a zero will be given for that assignment.

Students MUST submit all assignments in order to pass the course. If an assignment is not submitted before aforementioned deadlines, the student will receive a failing grade of an F in the course.

Plagiarism

Please refer to Appendix F for the statement on plagiarism. The Tutorial regarding plagiarism can be found on Moodle and must be completed.

Specialized supports and duty to accommodate

Disability Support Services

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 a disability, please let your instructor know immediately so options can be discussed. You are also welcome to contact Disability Services to establish reasonable accommodations. Please call 780-791-8934 or drop in at CC -167 (across from the Library).

UNITS AND RELATED WEEKLY READINGS:

Please refer to your Learner Guide for NURS 116.

APPENDIX A

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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