



DEPARTMENT OF NURSING EDUCATION AND HEALTH STUDIES

COURSE OUTLINE – Nursing 2150 - FALL 2019

NS2150 (EC): Pharmacotherapeutics in Nursing - 3 (3-0-0) UT, 45 Hours, 15 Weeks

EC INSTRUCTOR:	Michelle Turick MN, RN, CCNE	PHONE:	780-539-2715
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OFFICE HOURS:	Online/On campus: Monday 10:00am-12:00pm Email Instructor for Appointment outside Office Hours.
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NURS 215 COURSE OUTLINE DEV. 2017

REV. 1.0 APPROVED AUG. 2017

CALENDAR DESCRIPTION:

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.

PREREQUISITE(S)/COREQUISITE: N/A**REQUIRED TEXT/RESOURCE MATERIALS:**

Lilley, L.L., Collins, S.R., Snyder, J.S., & Swart, B. (2017). *Pharmacology for Canadian health care practice* (3rd ed.). Toronto, Canada: Elsevier.

Alberta College of Pharmacists. (2018). *Drug schedules*. Retrieved from <https://pharmacists.ab.ca/drug-schedules>

Alberta Health Services. (2018). *Medication reconciliation eLearning module for AHS staff and physicians*. Retrieved from <https://www.albertahealthservices.ca/info/Page8171.aspx>

American Psychological Association. (2010). *Publication manual of the American Psychological Association* (6th ed.). Washington, DC: Author.

Canadian Nurses Association. (2017). 2017 edition: *Code of ethics for registered nurses*. Retrieved from <https://www.cna-aiic.ca/en/on-the-issues/best-nursing/nursing-ethics>

College and Association of Registered Nurses of Alberta. (2015). *Medication guidelines*. Retrieved from http://www.nurses.ab.ca/content/dam/carna/pdfs/DocumentList/Guidelines/MedicationGuidelines_Mar2015.pdf

Any current drug handbook or electronic drug application and the:
Canadian Pharmacists Association. (2019). *Online version of compendium of pharmaceuticals and specialties (e-CPS)*. Retrieved from <https://www.myrxtx.ca/search>

Pharmacology PowerPoint presentations, discussion forums, supplementary learning activities, and course announcements will be available on **Moodle** weekly.

DELIVERY MODE(S):

The course will be delivered on-line through GPRC's online course management system (Moodle). This is an asynchronous online course. This means there is no established time when you must log on [excluding Exams - refer to Exam Schedule]. However, you must complete the required course work during the specified time each week.

COURSE OBJECTIVES:

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

LEARNING OUTCOMES:

At the end of the course the student will be able to:

1. Explain the basic pharmacokinetic principles that govern movement of drugs within the human body.
2. Explain the basic pharmacodynamic concepts underlying drug actions in the human body.
3. Identify the classification, nature, properties, and effects of drugs.
4. Describe the role of health professionals on the health care team in promoting client education regarding optimal therapeutic regimens, and the prevention and management of side/adverse effects.
5. Describe how individual differences account for variations in drug response.
6. Recognize essential principles of therapeutic drug regimens to a level necessary to facilitate course work and clinical practice.
7. Identify ethical and legal principles related to the administration of pharmacological agents.

TRANSFERABILITY:

“This course is part of the block transfer agreement with the University of Alberta in the Collaborative BScN Program. Admission to the fourth year of the Program and registration at the U of A will be contingent upon confirmation by the Faculty of Nursing that the first three years of the Program have been completed with satisfactory academic standing. For promotion to Year 4 at the U of A, a student is required to pass all previous courses and obtain a minimum cumulative GPA of 2.0 on a 4.0 point scale in the first three years of the program. If these conditions are met, the student will be granted a block transfer of work completed at GPRC to the U of A record.”

***Warning:** Although we strive to make the transferability information in this document up-to-date and accurate, **the student has the final responsibility for ensuring the transferability of this course to Alberta Colleges and Universities.** Please consult the Alberta Transfer Guide for more information. You may check to ensure the transferability of this course at Alberta Transfer Guide main page <http://www.transferralberta.ca> or, if you do not want to navigate through few links, at <http://alis.alberta.ca/ps/tsp/ta/tbi/onlineSearch.html?SearchMode=S&step=2>

** Grade of D or D+ may not be acceptable for transfer to other post-secondary institutions. **Students are cautioned that it is their responsibility to contact the receiving institutions to ensure transferability.**

EVALUATIONS:

In order to pass NS2150, students must complete the following requirements:

Refer to Moodle and page 8-9 of this course outline for due dates.

- 1) **Discussion Forums are worth 20% of the final grade.**
 - a. There are 10 Weeks of Discussion Forums worth **1% each week**. Please choose one Chapter per week and Post your answer(s) in the discussion forum. Then respond to 2 peers' postings. No partial marks given for incomplete postings. See “Weekly Participation Discussion Forum Rubric”.
 - b. In addition, instructor will mark **Two** of each of those Student Discussion/peer response posting **for content** according to the “Discussion Forum Rubric”. This will be done at random throughout the course.

Each marking will be worth 5% of the total Discussion Forum Grade

Weekly participation completed 10% +

1st Marking of discussion posts 5% +

2nd Marking of discussion posts 5% =

20% total

Keep these criteria in mind as you proceed through the course, and gauge your own efforts toward achieving your full share of this significant portion of your course grade.

The purpose of the weekly Discussion Forum input is to keep each of us focused on the same topic and reinforce the textbook chapter content. You may add to the discussion at any time during the week. **To obtain the maximum participation grade, you must post input three times per week at a minimum; 1) initial posting [answer a question], and 2) respond to two peers postings. [Note: Refer to Discussion Forum Rubric].** However, to benefit most from this part of the course, you are advised to check in on the discussion several times a week, adding your thoughts and comments to those of others so that the discussion grows as it continues back and forth. Discussion Forum participation is a critical component for reinforcement of the course content. Cooperative and collegial learning is fundamental to this course.

2) Exams are worth 75% of your final grade. [There are 3 Exams worth 25% each]. Exams are Closed Book, Supervised (completed in a GPRC classroom) and Timed (1 ½ hours). Refer to Moodle and page 8-9 of this course outline for due dates.

(Note: Exams will consist of one or more of the following question formats: Multiple Choice, Multiple Answer, True/False, Matching, and/or Select Missing words.)

- i. **Exam 1: Worth 25% of the final grade.**
 - a. The first exam includes content from weeks 1 - 3.
- ii. **Exam 2: Worth 25% of the final grade.**
 - a. The second exam includes content from weeks 5 - 7.
- iii. **Exam 3: Worth 25% of the final grade.**
 - a. The third exam includes content from weeks 9 - 14.

Failure to complete any course examination will result in a grade “0” for that examination. The Instructor must be notified prior to the examination in cases of illness or extenuating circumstances and special arrangements will be made in order to accommodate these students.

Please refer to the *Grande Prairie Regional College* calendar 2019-2020 for the Academic Regulations that pertain to Examinations and Examination Procedures at

<https://www.gprc.ab.ca/programs/calendar/>

3) Self-Quizzes are Worth 5% of the final grade. [There are 10 quizzes worth 0.005% each]. Self-Quizzes are Open Book and Timed (30 minutes). Refer to Moodle and page 8-9 of this course outline for due dates.

(Note: Self-Quizzes will consist of Multiple Choice and/or Multiple Answer Questions).

Self-Quiz	Content	Self-Quiz	Content
1	Chapters 1, 2, 4	6	Chapters 27, 28, 29

2	Chapters 3, 6, 7, 8	7	Chapters 32, 33
3	Chapters 11, 13, 17	8	Chapters 39, 40, 41
4	Chapters 19, 38, 20, 23	9	Chapters 43, 44, 45
5	Chapters 24, 25, 26	10	Chapters 46, 47, 49

4) Medication Reconciliation Modules: **Mandatory to pass/complete**

Due Date: End of Week 2 (Sept 17th, 2019).

Please complete both modules **Introduction and Comprehensive** at

<http://www.albertahealthservices.ca/info/Page8171.aspx> Save as a pdf or take a screen shot of your Certificate and submit to instructor [via dropbox or by e-mail].

GRADING CRITERIA: Please note that most universities will not accept your course for transfer credit **IF** your grade is **less than C-**.

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. The FINAL COURSE LETTER GRADE is based on the cumulative total of individual student’s weighted assignment marks based on the grading scale below.

GRANDE PRAIRIE REGIONAL COLLEGE			
GRADING CONVERSION CHART			
Alpha Grade	4-point Equivalent	Percentage Conversion	Descriptor
A⁺	4.0	90 – 100	EXCELLENT
A	4.0	85 – 89	
A⁻	3.7	80 – 84	VERY GOOD FIRST CLASS STANDING
B⁺	3.3	77 – 79	
B	3.0	73 – 76	GOOD
B⁻	2.7	70 – 72	
C⁺	2.3	67 – 69	SATISFACTORY
C	2.0	63 – 66	
C⁻	1.7	60 – 62	
D⁺	1.3	55 – 59	POOR
D	1.0	50 – 54	MINIMAL PASS
F	0.0	0 – 49	FAIL
WF	0.0	0	FAIL, withdrawal after the deadline

Note: The passing grade for NS2150 is a D or D+.

**COURSE SCHEDULE/TENTATIVE TIMELINE: September 4 – December 20, 2019
(December 6, 2019 - Last Day of Classes)**

Additional supplementary resources are posted on Moodle.

WEEK 1: Sept 4-10	<p>Course Orientation Chapter 1: Nursing Practice in Canada and Drug Therapy Chapter 2: Pharmacological Principles Chapter 4: Patient Focused Considerations Discussion Forum Due by September 10th @ 2359 hrs. Self-Quizzes: Available September 4th 0800hrs – September 10th@ 2359hrs.</p>
WEEK 2: Sept 11-17	<p>Chapter 3: Legal and Ethical Considerations Chapter 6: Medication Errors: Preventing and Responding <u>Medication Reconciliation Modules – Modules Certificate Due by September 17th.</u> http://www.albertahealthservices.ca/info/Page8171.aspx Chapter 7: Patient Education and Drug Therapy Chapter 8: Over-the-Counter Drugs and Natural Health Products Discussion Forum Due by September 17th @ 2359 hrs Self-Quizzes: Available September 11th 0800hrs – September 17th@ 2359hrs.</p>
WEEK 3: Sept 18-24	<p>Chapter 11: Analgesic Drugs Chapter 13: CNS Depressants and Muscle Relaxants Chapter 17: Psychotherapeutic Drugs Discussion Forum Due by September 24th @ 2359 hrs Self-Quizzes: Available September 18th 0800hrs–September 24th@ 2359hrs.</p>
WEEK 4: Sept 25-Oct 1	<p>Exam # 1 – On-campus. Monday, September 30th from 14:30-16:00 in Room A307</p>
WEEK 5: Oct 2-8 October 7th: THANKSGIVING DAY: NO CLASSES	<p>Chapter 19: Adrenergic Drugs Chapter 38: Respiratory Drugs Chapter 20: Adrenergic-Blocking Drugs Chapter 23: Antihypertensive Drugs Discussion Forum Due by October 8th@ 2359 hrs. Self-Quizzes: Available October 2nd 0800hrs – October 8th@ 2359hrs.</p>
WEEK 6: Oct 9-15	<p>Chapter 24: Antianginal Drugs Chapter 25: Heart Failure Drugs Chapter 26: Antidysrhythmic Drugs Discussion Forum Due by October 16th @ 2359 hrs. Self-Quizzes: Available October 9th 0800hrs – October 15th@2359hrs.</p>
WEEK 7: Oct 16-22	<p>Chapter 27: Coagulation Modifier Drugs</p>

	<p>Chapter 28: Antilipemic Drugs Chapter 29: Diuretic Drugs Discussion Forum Due by October 22nd @ 2359 hrs. Self-Quizzes: Available October 16th 0800hrs – October 22nd @ 2359hrs.</p>
WEEK 8: Oct 23-29	Exam # 2: On-campus. Monday, October 28th from 14:30-16:00 in Room A307
WEEK 9: Oct 30-Nov 5	<p>Chapter 32: Thyroid and Antithyroid Drugs Chapter 33: Antidiabetic Drugs Discussion Forum Due by November 5th@2359 hrs. Self-Quizzes: Available October 30th 0800hrs – November 5th@2359hrs.</p>
WEEK 10/11: Nov 6 & 7th & Nov 13-19	<p>Chapter 39: Acid Controlling Drugs Chapter 40: Antidiarrheal Drugs and Laxatives Chapter 41: Antiemetic and Antinausea Drugs Discussion Forum Due by November 19th@ 2359 hrs. Self-Quizzes: Available November 6th 0800hrs – November 19th@2359hrs.</p> <p>REMEMBRANCE DAY: Monday Nov 11th FALL BREAK: NOV 8th - 12th; NO CLASSES</p>
WEEK 12: Nov 20-26	<p>Chapter 43: Antibiotics Part 1 Chapter 44: Antibiotics Part 2 Chapter 45: Antiviral Drugs Discussion Forum Due by November 26th@ 2359 hrs. Self-Quizzes: Available November 20th 0800hrs – November 26th @ 2359 hrs.</p>
Week 13/14: Nov 27 – Dec 3 & Dec 4-6 (Dec 6th; Last day of Classes)	<p>Chapter 46: Antitubercular Drugs Chapter 47: Antifungal Drugs Chapter 49: Anti-Inflammatory and Antigout Drugs Discussion Forum Due by December 6th @ 2359 hrs. Self-Quizzes: Available November 27th 0800hrs – December 6th 2359hrs.</p>
WEEK 15: Dec 9th - 20th [Exam Week]	Exam # 3 Date: On-campus. Monday, December 9th from 14:30-17:30 in Room A307

STUDENT RESPONSIBILITIES:

Students will work with tutor online to acquire necessary information for pharmacotherapeutics. Participation and pre-reading is an expectation. In addition to the required readings, you will need to spend approximately 3 hours on the Moodle site each week.

Refer to the College Policy on Student Rights and Responsibilities at

<https://www.gprc.ab.ca/about/administration/policies/>

STATEMENT ON PLAGIARISM AND CHEATING:

Cheating and plagiarism will not be tolerated and there will be penalties. For a more precise definition of plagiarism and its consequences, refer to the Student Conduct section of the College Admission Guide at <http://www.gprc.ab.ca/programs/calendar/> or the College Policy on Student Misconduct: Plagiarism and Cheating at <http://www.gprc.ab.ca/about/administration/policies/>

**Note: all Academic and Administrative policies are available on the same page.