



## **NURSING 2150**

### **2017 – 2018 COURSE OUTLINE**

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## DEPARTMENT OF NURSING EDUCATION AND HEALTH STUDIES

### COURSE OUTLINE – Nursing 2150 - FALL 2017

NS2150 (B2): Pharmacotherapeutics in Nursing - 3 (3-0-0) UT, 45 Hours, 15 Weeks

**INSTRUCTOR:** Karen Oostra MSN, RN      **PHONE:** 780-539-2449  
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**OFFICE HOURS:** Consult Instructor

#### 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* (3<sup>rd</sup> ed.). Toronto: Elsevier.

Alberta's Drug Schedules:

<https://pharmacists.ab.ca/drug-schedules>

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](http://www.nurses.ab.ca/content/dam/carna/pdfs/DocumentList/Guidelines/MedicationGuidelines_Mar2015.pdf)

Any current drug handbook or electronic drug application and the electronic "Compendium of Pharmaceuticals and Specialties (e-CPS) available through the library at

<https://www.myrxtx.ca/search>

#### DELIVERY MODE(S):

Classroom lecture with supplementation from Moodle.

**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.transferalberta.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:

**(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.)**

**1. Exam 1: 25%**

The first exam will be computer based and includes content from weeks 2 - 4.

**2. Exam 2: 25%**

The second exam will be computer based and includes content from weeks 7 - 9.

**3. Exam 3: 30%**

The third exam will be computer based and includes content from weeks 12 - 14.

**4. Medication Reconciliation Modules: 15%**

**Due Date: Week 3 (Sept 18<sup>th</sup>) at beginning of class; by 0830hrs.**

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

<http://www.albertahealthservices.ca/info/Page8171.aspx>

Print or take a screen shot of your Certificate and submit to instructor [in person or by e-mail]

**5. Attendance: 5%**

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

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

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

**COURSE SCHEDULE/TENTATIVE TIMELINE: August 30 – Dec 19, 2017  
(Mondays; 1300-1550)**

**Last Day of Classes: Dec 8, 2017**

*Additional supplementary resources are posted on Moodle.*

<b>WEEK 1 – Sept 4<sup>th</sup></b>	<b>LABOUR DAY: NO CLASSES</b>
<b>WEEK 2 – Sept 11<sup>th</sup></b>	Course Introduction Chapter 1: Nursing Practice in Canada and Drug Therapy Chapter 2: Pharmacological Principles Chapter 4: Patient Focused Considerations
<b>WEEK 3 – Sept 18<sup>th</sup></b>	Chapter 3: Legal and Ethical Considerations Chapter 6: Medication Errors: Preventing and Responding Medication Reconciliation Modules – <b>Modules Certificate Due</b> ( <a href="http://www.albertahealthservices.ca/info/Page8171.aspx">http://www.albertahealthservices.ca/info/Page8171.aspx</a> ) Chapter 7: Patient Education and Drug Therapy Chapter 8: Over-the-Counter Drugs and Natural Health Products
<b>WEEK 4 – Sept 25<sup>th</sup></b>	Chapter 11: Analgesic Drugs Chapter 13: CNS Depressants and Muscle Relaxants Chapter 17: Psychotherapeutic Drugs
<b>WEEK 5 – Oct 2<sup>nd</sup></b>	<b>Exam # 1</b>
<b>WEEK 6 – Oct 9<sup>th</sup></b>	<b>THANKSGIVING DAY: NO CLASSES</b>
<b>WEEK 7 – Oct 16<sup>th</sup></b>	Chapter 19: Adrenergic Drugs Chapter 38: Respiratory Drugs Chapter 20: Adrenergic-Blocking Drugs Chapter 23: Antihypertensive Drugs
<b>WEEK 8 – Oct 23<sup>rd</sup></b>	Chapter 24: Antianginal Drugs Chapter 25: Heart Failure Drugs Chapter 26: Antidysrhythmic Drugs
<b>WEEK 9 – Oct 30<sup>th</sup></b>	Chapter 27: Coagulation Modifier Drugs Chapter 28: Antilipemic Drugs Chapter 29: Diuretic Drugs
<b>WEEK 10 – Nov 6<sup>th</sup></b>	<b>Exam # 2</b>
<b>WEEK 11 (Nov 13<sup>th</sup>)</b>	<b>FALL BREAK: NOV 10<sup>th</sup> - 13<sup>th</sup>; NO CLASSES</b>
<b>WEEK 12 – Nov 20<sup>th</sup></b>	Chapter 32: Thyroid and Antithyroid Drugs Chapter 33: Antidiabetic Drugs Chapter 39: Acid Controlling Drugs Chapter 40: Antidiarrheal Drugs and Laxatives
<b>WEEK 13 – Nov 27<sup>th</sup></b>	Chapter 41: Antiemetic and Antinausea Drugs Chapter 43: Antibiotics Part 1 Chapter 44: Antibiotics Part 2
<b>WEEK 14 – Dec 4<sup>th</sup></b> <b>(Last Class)</b>	Chapter 45: Antiviral Drugs Chapter 46: Antitubercular Drugs Chapter 47: Antifungal Drugs Chapter 49: Anti-Inflammatory and Antigout Drugs
<b>WEEK 15 – Date TBA</b>	<b>Exam # 3</b> Set by Student Services during Exam Week (Dec 9 <sup>th</sup> - 19 <sup>th</sup> )

**STUDENT RESPONSIBILITIES:**

Students will work with tutor in class to acquire necessary information for pharmacotherapeutics. Attendance and pre-reading is an expectation. In addition, you will need to spend approximately 1 -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.