University of Alberta

Collaborative Baccalaureate

Nursing Program

Grande Prairie Regional College

Keyano College

Red Deer College

University of Alberta

NS 2150

2009 - 2010 Course Outline

Spring 2010

DATES: May 3-27th.

(Face-to-Face Delivery)

Revised by the Learning Experiences Development Committee, April 2007

COURSE LEADER:

Name: Dorothy Dooley BN, RN, MN
Office: H227
Office Phone: (780) 539-2891
E-mail: ddooley@gprc.ab.ca

COURSE INSTRUCTOR:

Name: Bonnie Hessler RN, BScN
Office: H228
Office Phone: 780-539-2757
E-mail: bhessler@gprc.ab.ca
Office Hours: Open door policy or by appointment

Approved: May 2009

COURSE HOURS (per week): 4 week course

Lecture: 3 (3-0-0) UT

COURSE LOCATION AND TIME:

Mon, Tues, Wed, Thurs: 9:00 - 11:50 (A201)

Note: A201 has wireless internet capacity so you are welcome to bring laptops to class.

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 modification 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 from specific drug classes will be used. Brief scenarios will be used to integrate pharmacology within the clinical setting. Safe, evidence-based practice will be emphasized.

COURSE OBJECTIVES:

Upon completion of Nursing 2150, the nursing student will be able to:

1. Demonstrate an understanding of [1] the basic pharmacodynamic concepts underlying drug actions in the human body.
2. Demonstrate an understanding of the basic pharmacokinetic principles that govern 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 the nurse and the health team in promoting client education, optimal therapeutic regimens, and in the anticipation and 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.

[1] "Demonstrate an understanding of..." This means through satisfactory continuous assessment, the examination regimen, class interaction with tutor, etc.

REQUIRED TEXTBOOKS AND RESOURCES:

Lilley, L., Harrington, S., and Synder, J. (2007). *Pharmacology and the nursing process in Canada.* Toronto, ON: Elsevier

Understanding Alberta's Drug Schedules:
https://pharmacists.ab.ca/nPharmacistResources/ABDrugSchedules.aspx

Any current drug handbook or drug handbook software for a PDA or The electronic Compendium of Pharmaceuticals and Specialties (*e-CPS*): https://www.e-therapeutics.ca/home.whatsnew.action

REQUIRED LEARNING EXPERIENCES:

NS2150 Lectures: Students will work with tutor in class to acquire necessary information for pharmacotherapeutics. **Pre-reading is an expectation.** Refer to course schedule for required readings.

Power point slides and assignments will be posted to Blackboard.

COURSE EVALUATION:

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

1. **Four assignments:** **10% each (total of 40%)**
2. **Midterm exam:** **30% (multiple choice) May 17th A201**
3. **Final exam:** **30% (multiple choice) May 27th A201**

Total 100%

Assignments will be based on questions from each assigned chapter in the textbook. The questions will consist of chapters covered each week. Assignments must be type written and delivered electronically on Thursdays by 4:00 pm.

- **Refer to the Student Handbook for procedures for exams.**

SPECIALIZED SUPPORT AND DISABILITY SERVICES:

Students who require accommodations in this course due to disability affecting mobility, vision, hearing, learning, or mental or physical health are advised to discuss their needs with Student Services.

POLICY STATEMENTS:

Late Assignment Policy:

All assignments are required to be completed in order to pass this course.

All assignments are expected to be passed in at the time and place they are due. See attached schedule.

Extensions on assignments may be granted and must be negotiated with the instructor prior to the due date and with a date and time specified for late submissions.

A penalty of one letter grade for each working day that an assignment is submitted after the due date will be deducted from the final mark. For example, an assignment scored at B+ would receive an adjusted grade of B, if submitted one day late when an extension was not negotiated with the instructor.

Plagiarism and Cheating:

Please refer to the GPRC's 2009-2010 Academic Calendar for the policy on plagiarism and cheating as guidelines for NS 2150.

Assignment of Final Grade:

A grade will be assigned for each assignment using the marking criteria and then based on the grade descriptors (excellent, good, satisfactory, poor). Rationale will be given as to the assigned grade. Grading descriptors will be provided for each assignment.

> Effective July 1, 2003 Grande Prairie Regional College uses the alpha grading system and the following approval letter codes for all programs and courses offered by the college.

Grading Criteria for Course

Alpha Grade	4 Point Equivalent	Descriptor
A+	**4.0**	**Excellent**
A	**4.0**	**Excellent**
A-	**3.7**	**First Class Standing**
B+	**3.3**	**First Class Standing**
B	**3.0**	**Good**
B-	**2.7**	**Good**
C+	**2.3**	**Satisfactory**
C	**2.0**	**Satisfactory**
C-	**1.7**	**Satisfactory**
D+	**1.3**	**Poor/Minimal Pass**
D	**1.0**	**Poor/Minimal Pass**
F	**0.0**	**Failure**

A grade of C- is the minimum passing grade for any nursing course with the exception of NS1050 and NS2150. The passing grade for these courses is a D or D+.

Students may receive a grade of D or D+ in an assignment or component of a course, but must have an overall grade of C- to achieve a passing grade in a nursing course.

****Note: Please refer to the 2009/2010 GPRC's Academic Calendar for further details regarding the grading policy.**

NS2150 SCHEDULE AND READINGS

Date	Topic	Readings
May 3	**Pharmacology Basics** Introduction to the course (how content organized, exams, assignments etc.) followed by: • Introduction to pharmacology • Common Terminology • The Nursing Process and Drug Therapy • Drug Schedules	**Course Outline** **Chapter 1:** The Nursing Process and Drug Therapy
May 4	**Pharmacological Principles** • Pharmacokinetics • Pharmacodynamics • Pharmacotherapeutics • Pharmacognosy Lifespan considerations in medication administration	**Chapter 2:** Pharmacology Principles **Chapter 3:** Lifespan Considerations
May 5	**OTC and Herbal Therapy** **Drugs affecting the CNS** Drugs for control of pain	**Chapter 7:** Over-the-counter and Natural Health Products **Chapter 10:** Analgesic agents
May 6	**Assignment # 1 -Due 4:00 pm (Chapters 1,2,3,7, 10, 12, 13)** **Drugs affecting the CNS** Drugs for insomnia Drugs for seizures Drugs for Parkinson's disease	**Chapter 12:** Central Nervous System Depressants and Muscle Relaxants **Chapter 13:** Anti-epileptic Agents **Chapter 14:** Antiparkinsonian Agents
May 10	**Drugs for anxiety, emotional and mood disorders** **Drugs affecting the autonomic nervous system**	**Chapter 15:** Psychotherapeutic Agents **Chapter 19:** Cholinergic Agents **Chapter 20:** Cholinergic-Blocking Agents

May 11	**Drugs affecting the cardiovascular and renal systems** • Drugs for angina, MI, and CVA	**Chapter 21:** Positive inotropic agents **Chapter 22:** Antidysrhythmic agents **Chapter 23:** Antianginal agents
May 12	**Drugs affecting the cardiovascular and renal systems** • Drugs for hypertension • Diuretics	**Chapter 24:** Antihypertensive agents **Chapter 25:** Diuretic agents
May 13	**Assignment # 2 - Due 4:00 pm (Chapters 14, 15, 19, 20, 21, 22, 23)** **Drugs affecting the cardiovascular and renal systems** • Drugs for coagulation disorders • Drugs for lipid disorders	**Chapter 27:** Coagulation Modifier Agent **Chapter 28:** Antilipemic Agents
May 17	**MID TERM EXAM 30%**	**CHAPTERS 1 – 23 INCLUSIVE**
May 18	**Drugs affecting the endocrine system** • Drugs for thyroid disorders • Drugs for diabetes	**Chapter 30:** Thyroid and Antithyroid agents **Chapter 31:** Antidiabetic Agents
May 19	**Drugs affecting the respiratory system** • Drugs for asthma, COPD, bronchitis, emphysema **Anti-infective Agents** • Drugs for bacterial infections	**Chapter 36:** Bronchodilators and other respiratory agents **Chapter 37:** Antibiotics
May 20	**Assignment # 3 - Due 4:00 pm (Chapters 24, 25, 27, 28, 30, 31, 36)** **Anti-infective agents** • Drugs for viral infections • Drugs for tuberculosis	**Chapter 38:** Antivirals **Chapter 39:** Antituberculosis
May 24	**Victoria Day – HOLIDAY**	

May 25	**Anti-infective agents** • Drugs for fungal infections **Drugs affecting the gastrointestinal system**	**Chapter 40:** Antifungal agents **Chapter 49:** Acid controlling agents
May 26	**Assignment # 4 - Due 4:00 pm (Chapters 37, 38, 39, 40, 49, 50, 51)** **Drugs affecting the gastrointestinal system**	**Chapter 50:** Anitdiarrheals and laxatives **Chapter 51:** Antiemetics and antinausea agents
May 27	**FINAL EXAM 30%**	**CHAPTER 24 – 51 INCLUSIVE**