

I. COURSE DESCRIPTION:

This course continues to explore the concepts of pharmacology as selected drug groups are studied. The course will emphasize the role and responsibilities of the practical nurse in the administration and monitoring of client medications.

II. LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE:

Upon successful completion of this course, the student will demonstrate the ability to:

1. Explain the action and interaction within the body of selected pharmaceutical preparations and the impact on nursing care:

Potential Elements of the Performance:

- discuss relevant information related to administering medications for each of the drug classifications.
- explain safe practices in administering and monitoring medications following the Standards from the College of Nurses of Ontario.
- formulate relevant health teaching related to medication administration

2. Utilize basic math skills to accurately calculate drug dosages

Potential Elements of the Performance:

- review basic mathematical calculations
- solve dosage calculation problems using a selected formula for oral and parenteral routes
- calculate a safe pediatric dose based on weight

3. Safely administer medications orally and parenterally.

Potential Elements of the Performance:

Demonstrate the safe practice of medication administration.

III. TOPICS:

1. Drugs Affecting Gastrointestinal System
 - antacids and acid controllers
 - laxatives
 - antiemetics
 - antidiarrheals
 - nutritional supplements
 - vitamins and minerals
2. Drugs affecting genitourinary system
 - diuretics
 - anticholinergics

- antibiotics
- antispasmodics
- 3. Drugs affecting the reproductive system
 - sex hormones
 - abotivefacients
- 4. Drugs affecting the neuromusculoskeletal system
 - anticonvulsants
 - CNS stimulants
 - osmotic diuretics
 - calcium enhancers
 - antiparkinson agents
 - cholinesterase inhibitors
 - skeletal muscle relaxants
 - nonsteroidal anti-inflammatory drugs
 - anti-gout drugs
 - ophthalmic agents
- 5. Drugs affecting the endocrine system
 - antidiabetic agents
 - thyroid enhancers
 - antidiuretic hormones
 - adrenocorticosteroids
 - parathyroids
- 6. Psychotherapeutic drugs
 - antipsychotics
 - anxiolytics
 - antidepressants
 - hypnotics
 - mood stabilizers
- 7. Drugs used in the treatment of cancer antineoplasitcs
 - Drugs affecting the immune system
 - agents that provide active or passive immunity
 - immunosuppressants
- 8. Complimentary medicine
 - natural or herbal products
 - interaction of pharmacologic agents and natural products

IV. REQUIRED RESOURCES/TEXTS/MATERIALS:

Lilley, L., Harrington, S., Snyder, J. Swart, B. (Ed.). (2007). *Pharmacology and the nursing process in Canada*. (1st Canadian ed.). Mosby.

Skidmore-Roth, L. (2009). *Nursing drug reference* (22nd ed.). St. Louis, MO: Mosby.

Recommended Resources:

College of Nurses of Ontario (2008). *Medication* (available at www.cno.org)

V. EVALUATION PROCESS/GRADING SYSTEM:

Pharmacology quizzes 1 to 4 - 25%

Mathematics quiz – 25%

Final examination – 30%

6 hour lab – S/U (Week 9 and 10)

3 hour practicum – S/U

(successful grade for both lab and practicum will comprise 20% of final mark)

The following semester grades will be assigned to students in post-secondary courses:

<u>Grade</u>	<u>Definition</u>	<u>Grade Point Equivalent</u>
A+	90 – 100%	4.00
A	80 – 89%	3.00
B	70 - 79%	2.00
C	60 - 69%	1.00
D	50 – 59%	0.00
F (Fail)	49% and below	
CR (Credit)	Credit for diploma requirements has been awarded.	
S	Satisfactory achievement in field /clinical placement or non-graded subject area.	
U	Unsatisfactory achievement in field/clinical placement or non-graded subject area.	
X	A temporary grade limited to situations with extenuating circumstances giving a student additional time to complete the requirements for a course.	
NR	Grade not reported to Registrar's office.	
W	Student has withdrawn from the course without academic penalty.	

Note: For such reasons as program certification or program articulation, certain courses require minimums of greater than 50% and/or have mandatory components to achieve a passing grade.

It is also important to note, that the minimum overall GPA required in order to graduate from a Sault College program remains 2.0.

VI. SPECIAL NOTES:

Special Needs:

If you are a student with special needs (e.g. physical limitations, visual impairments, hearing impairments, or learning disabilities), you are encouraged to discuss required accommodations with your professor and/or the Special Needs office. Visit Room E1101 or call Extension 703 so that support services can be arranged for you.

Retention of Course Outlines:

It is the responsibility of the student to retain all course outlines for possible future use in acquiring advanced standing at other post-secondary institutions.

Plagiarism:

Students should refer to the definition of “academic dishonesty” in *Student Rights and Responsibilities*. Students who engage in “academic dishonesty” will receive an automatic failure for that submission and/or such other penalty, up to and including expulsion from the course/program, as may be decided by the professor/dean. In order to protect students from inadvertent plagiarism, to protect the copyright of the material referenced, and to credit the author of the material, it is the policy of the department to employ a documentation format for referencing source material.

Course Outline Amendments:

The professor reserves the right to change the information contained in this course outline depending on the needs of the learner and the availability of resources.

Substitute course information is available in the Registrar's office.

VII. PRIOR LEARNING ASSESSMENT:

Students who wish to apply for advanced credit in the course should consult the professor. Credit for prior learning will be given upon successful completion of a challenge exam or portfolio.

VIII. DIRECT CREDIT TRANSFERS:

Students who wish to apply for direct credit transfer (advanced standing) should obtain a direct credit transfer form from the Dean's secretary. Students will be required to provide a transcript and course outline related to the course in question.