SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY				
SAULT STE. MARIE, ONTARIO				
	CO	SAULT COLLEGE		
COURSE TITLE:	Pharmaco	logy l		
CODE NO. :	PNG234	SEMES	TER:	3
PROGRAM:	Practical I	Nursing		
AUTHOR:	Barbara T	hompson		
DATE:	Aug/16	PREVIOUS OUTLINE DAT	ED:	Aug/15
APPROVED:		"Marilyn King"		June, 2016
		HAIR HEALTH PROGRAMS		DATE
TOTAL CREDITS:	3			
PREREQUISITE(S):	PNG121,	PNG126		
HOURS/WEEK:	3			
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# I. COURSE DESCRIPTION:

This course is comprised of class lecture. This course introduces the learner to pharmacologic principles and select medication classifications as they relate to individuals experiencing acute illness across the lifespan. The learner will study the mechanism of action, therapeutic indications and nursing responsibilities including drug monitoring and the management of adverse drug effects. In addition, this course will emphasize common medication dosages, drug calculations, nursing legislation and standards and health teaching.

# II. LEARNING OUTCOMES AND ELEMENTS OF THE PERFORMANCE:

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

1. Relate the principles of basic pharmacological theory to the nursing process and the administration of medications.

### Potential Elements of the Performance:

- 1.1 Apply the nursing process to the administration of medications across the lifespan.
- 1.2 Define the common terms used in the study of pharmacology.
- 1.3 Apply the common terms used in pharmacology including the concepts of pharmaceutics, pharmacokinetics, pharmacodynamics and pharmacotherapeutics.
- 1.4 Discuss the lifespan considerations associated with medication administration (including pregnant women, breastfeeding, infants, children and older adults).
- 1.5 Incorporate Canadian legislation which governs the administration of medication (including the Food and Drug Act and the Controlled Substance Act).
- 1.6 Discuss the impact of medication errors and the process involved in reporting a medication error.
- 1.7 Discuss the importance of patient education as a component of medication administration including prescription medications, over the counter medications and natural health products.
- 2. Explain the action, therapeutic indications and nursing responsibilities of select medication classifications.

Potential Elements of the Performance:

- 2.1 Analgesic agents (non-opioids, opioids, partial opioid agonists and opioid antagonists.
- 2.2 Non-steroidal anti-inflammatory agents
- 2.3 General/local anesthetic agents and moderate sedation
- 2.4 Antibiotic agents
- 2.5 Antifungal agents
- 2.6 Antiviral agents

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Course	Name		Code #
	2.7	Discuss medications that directly affect the respiratory s antihistamines, decongestants, antitussives, expectorar	
	2.8	bronchiodilators and other inhaled medications. Discuss medications that directly affect the cardiovascu including select medications used in the treatment of un arrhythmias, heart failure, chest pain, hypertension, fluid	complicated d overload,
	2.9	hypotension and shock, hematological disease and hyp Discuss medications that directly affect the gastrointesti including acid control agents, antidiarrheals, laxatives, a antinausea agents.	inal system
	2.10	Discuss medications that directly affect the integumenta topical medications).	ary system (e.g.
	2.11	Discuss the nursing responsibilities associated with me fluid and electrolyte balance.	dications that alter
3.		provincial nursing legislation and standards which impace	t medication
	Dotor	tial Elements of the Performance:	
	3.1	Discuss the College of Nurses of Ontario's Medication S 2008).	Standard (revised
	3.2	Describe the College of Nurses of Ontario's "Rights" of administration.	medication
	3.3 3.4	Discuss the ethical principles associated with medicatio Describe the role of effective communication as a comp medication administration.	
	3.5	Compare the role of the Practical Nurse versus the role Nurse in the administration of medications.	of the Registered
4.		basic math skills required to safely administer medication g to clients across the lifespan.	ns in the clinical
	Poter	tial Elements of the Performance:	
	4.1	Perform basic drug calculations across the lifespan.	
	4.2	Perform advanced drug calculations across the lifespan	
III. TO	OPICS:		
1.	<u>Antiinfe</u> • • • •	ectives and Antiinflammatory Agents antibiotics antivirals antituberculosis antifungals antimalarials, antiprotozoals, and ant helminthics antiseptics and disinfectants anti-inflammatory, antirheumatoid and related agents	

# 2. Drugs Affecting Fluid and Electrolyte Balance

- diuretics
- agents affecting volume and ion content of body fluids
- 3. <u>Anesthetics and Analgesics</u>
  - local and general anesthetics
  - narcotic and non-narcotic analgesics

# 4. Drugs Affecting Integumentary System

• topical medications

# 5. Drugs Affecting Respiratory System

- bronchodilators
- antihistamines
- nasal decongestants
- antitussives
- mucolytics
- cold remedies

# 6. Drugs Affecting Cardiovascular System

- drugs to treat heart failure
- antiarrhythmics
- antianginals
- antihypertensives
- drugs used in hypotension and shock
- drugs affecting blood coagulation
- drugs for hyperlipidemia

## 7. Drugs Affecting Gastrointestinal System

- antacids and acid controllers
- laxatives
- antiemetics
- antidiarrheals
- nutritional supplements
- vitamins and minerals

## IV. REQUIRED RESOURCES/TEXTS/MATERIALS:

Lilley, L. L., Rainforth Collins, S., & Snyder, J. S. (2016). *Pharmacology for Canadian Health Care Practice.* (B. Swart Canadian Editor)(3<sup>rd</sup> ed.). Toronto, ON: Elsevier Canada.

Lilley, L. L., Snyder, J. S. & Rainforth Collins, S. (2016). Study Guide for

Pharmacology for Canadian Health Care Practice (B. Swart Canadian Editor)(3rd

ed.). Toronto, ON: Elsevier Canada.

Karch, A (2017). Lippicott's Nursing Drug Guide Canadian Version.

Philadelphia, PA: Lippincott Williams and Wilkins.

### Recommended Resources:

Burke, K. M., Mohn-Brown, E., Eby, L. (2016). Medical

surgical nursing care (4<sup>th</sup> ed.). Toronto, ON: Pearson Education.

College of Nurses of Ontario (2015). *Medication* (2015). Toronto, ON: Author.

(available at <u>www.cno.org</u>)

## V. EVALUATION PROCESS/GRADING SYSTEM:

- 1. The pass mark for this course is 60%.
- 2. Evaluation Methods:

Test #1	30%
Test #2	30%
Final Exam	40%
Total Grade	100%

3. There are no supplemental tests/rewrites in this course.

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

<u>ade</u>	Definition	Grade Point <u>Equivalent</u>
	90 – 100% 80 – 89%	4.00
	70 - 79%	3.00
	60 - 69%	2.00
	50 – 59%	1.00
	<u>ade</u>	90 – 100% 80 – 89% 70 - 79% 60 - 69%

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Course Name		Code #
F (Fail)	49% and below	0.00
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.	
Х	A temporary grade limited to situations with extenuating circumstances giving a student additional time to complete the requirements for a course.	
NR W	Grade not reported to Registrar's office. Student has withdrawn from the course without academic penalty.	

If a faculty member determines that a student is at risk of not being academically successful, the faculty member may confidentially provide that student's name to Student Services in an effort to help with the student's success. Students wishing to restrict the sharing of such information should make their wishes known to the coordinator or faculty member.

### VI. SPECIAL NOTES:

#### Attendance:

Sault College is committed to student success. There is a direct correlation between academic performance and class attendance; therefore, for the benefit of all its constituents, all students are encouraged to attend all of their scheduled learning and evaluation sessions. This implies arriving on time and remaining for the duration of the scheduled session. *It is the departmental policy that once the classroom door has been closed, the learning process has begun. Late arrivals may not be granted admission to the room.* 

### VII. COURSE OUTLINE ADDENDUM:

The provisions contained in the addendum located in D2L and on the portal form part of this course outline.