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SAULT COLLEGE OF APPLIED ARTS AND TECHNOLOGY

SAULT STE. MARIE, ON

COURSE OUTLINE

COURSE TITLE: PHARMACOLOGY  
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CODE NO.: DSW 203  
\_\_\_\_\_

PROGRAM: DEVELOPMENTAL SERVICES WORKER  
\_\_\_\_\_

AUTHOR: Lila Shaule  
\_\_\_\_\_

DATE: May 1993  
\_\_\_\_\_

APPROVED: *L. Robison*  
DEAN

DATE: *May 6/93*

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## PHARMACOLOGY

### Week 1

- a) Introduction to pharmacology
- b) Definitions related to pharmacology
- c) Standards
- d) Definition of names for drugs

### Text

PP 51-58

### Week 2

- a) Canadian Laws governing drugs
- b) Terms associated with laws
- c) Implications of laws to worker
- d) Prescription/nonprescription drugs

### Week 3

- a) Role of pharmacological team
- b) Common drug forms
- c) Factors determining the effects of drugs and drug interaction
- d) Routes of drug administration

PP 59-64

### Week 4

- a) Drug interaction
- b) Pharmacokinetics
- c) Care and storage of drugs
- d) 5 R's
- e) Guidelines for safe administration

Lecture Handouts

### Week 5

- a) Safety precautions for administering medications (principles of asepsis)
- b) Abbreviations
- c) Prescription
- d) Translating & transcribing doctor's orders
- e) Practicum

pp 60-61

### Week 6

- a) Video-procedure for administering eye, ear, nose drops & sprays, suppositories, topical medications
- b) demonstration
- c) practicum

pp 69-70

(Handouts)

### Week 7

- a) Midterm
- b) Practicum for administration of ear, nose, eye, suppositories topical medication

### Week 8

- a) Systems of Measurements
- b) Conversions
- c) Ratio, proportion, math for meds
- d) Calculations of Drug Dosages
- e) Practicum

p 29

pp 33-43

Handouts

### Week 9

**Drugs Affecting Respiratory System** pp 115-121

- a) Diagram, Functions of Respiratory System
- b) Use, action, pharmacokinetics, onset, duration of medication

**Vitamins, fat soluble, water soluble** Drug study due  
uses, action, sources pp 75-81

**Minerals**  
uses, actions, sources

**Oral Med Administration**

### Week 10

**Antibiotics & Antifungal, Antiviral Drugs** pp 97-99

- a) Definitions pp 83-94
- b) Sulfonamides
- c) Penicillins
- d) Cephalosporins
- e) Tetracyclines
- f) Erythromycins
- g) Antifungals
- h) Antiviral

### Week 11

**Drugs Affecting the Nervous System** pp 139-160

- a) Anatomy of nervous system
- b) Analgesic-narcotic, non-narcotic
- c) Sedatives and Hypnotics
- d) Anticonvulsants
- e) Antipsychotic drugs
- f) Antianxiety drugs
- g) In class practicum/administering and charting

### Week 12

**Drugs Affecting the Digestive System** Math sheets due

- a) Anatomy of digestive system pp 175-182
- b) Drugs affecting the stomach pp 231-233
- c) Drugs affecting the intestines
- d) oral hypoglycemics
- e) Discussion of drug abuse
- f) Practice of administering and charting

### Week 13

**Drugs Affecting Circulatory System** pp 132-141

- a) Anatomy of circulatory system
- b) Cardiotonic Glycosides-digoxin
- c) Arrhythmias
- d) Drugs affecting blood vessels
- e) Drugs affecting blood
- f) Antihypertensives
- g) Practice of administering or charting

Week 14  
Final Theory

Week 15  
In class practicum

N.B.

The instructor retains the right to make changes in the syllabus as deem necessary.

**EVALUATION METHODS: (INCLUDES ASSIGNMENTS, ATTENDANCE REQUIREMENTS, ETC.)**

Drug Research	10%	A+	=	90-100%
Midterm	35%	A	=	85-89%
Final Exam	40%	B	=	80-84%
Attendance/ Participation	5%	C	=	70-79%
Math work sheets	10%	I	=	Incomplete
		R	=	Repeat

**Practicum Tests**

Please note: Students must attain 100% in the areas of transferring Doctor's orders to charts, as well as 100% in the class practicum on dispensing the medication in order to pass the course.

**Academic Theory Test**

70% passing grade is required in this course. One "make-up" test is available after the final exams for students not reaching an overall grade of 70% if they have achieved 100% on all practicum tests.

N.B. Because of the nature and seriousness of this course attendance is a must.

**Syllabus: (3 hours per week)**

Total credit hours 45

**REQUIRED STUDENT RESOURCES**

Pharmacology  
AN INTRODUCTORY TEXT  
Mary Kaye Asperheim  
Seventh Edition

**SPECIAL NOTES**

**Special Needs Note**

Students with special needs (eg. physical limitations, visual impairments, hearing impairments, learning disabilities) are encouraged to discuss required accommodations confidentially with the instructor.

Your instructor reserves the right to modify the course as he/she deems necessary to meet the needs of students.

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