



## COURSE OUTLINE: OEL872 - PHARM MED TEST

Prepared: Rachel McBride

Approved: Lori Crosson, Director, E-Learning and Continuing Education

<b>Course Code: Title</b>	OEL872: UNDERSTANDING PHARMACOLOGY MEDICAL TESTS												
<b>Program Number: Name</b>													
<b>Department:</b>	DISTANCE EDUCATION												
<b>Semesters/Terms:</b>	20S, 20F, 21W												
<b>Course Description:</b>	This course has been designed to support medical office personnel to develop a basic understanding of a) pharmacology and b) medical tests. Content has been developed to guide you through the various body systems using a modular based approach.												
<b>Total Credits:</b>	3												
<b>Hours/Week:</b>	3												
<b>Total Hours:</b>	45												
<b>Prerequisites:</b>	There are no pre-requisites for this course.												
<b>Corequisites:</b>	There are no co-requisites for this course.												
<b>Substitutes:</b>	HOA110												
<b>Course Evaluation:</b>	Passing Grade: 50%, D												
<b>Books and Required Resources:</b>	<p>Understanding Pharmacology for Health Professionals by Turley, Susan Publisher: New Jersey. Pearson Ed Inc. Edition: 2016 ISBN: 0-13-391126-8</p> <p>Mosbys Canadian Manual of Diagnostic and Laboratory Tests 1st Canadian Ed. by Pike-MacDonald, Sandra Publisher: Toronto. Elsevier Edition: 2013 ISBN: 978-1-926648-64-4</p>												
<b>Course Outcomes and Learning Objectives:</b>	<table><tr><td><b>Course Outcome 1</b></td><td><b>Learning Objectives for Course Outcome 1</b></td></tr><tr><td>Explain the basic principles related to the practice of pharmacology</td><td>-Define pharmacology and four related subdivisions -Discuss the historical significance of pharmacology -Explain the role of the pharmacist and health office personnel -State 3 medical uses for drugs</td></tr><tr><td><b>Course Outcome 2</b></td><td><b>Learning Objectives for Course Outcome 2</b></td></tr><tr><td>Discuss regulation, safety and controlled substances as each relates to the practice of pharmacology</td><td>-Name the Canadian regulatory body responsible for maintaining and regulating drug safety. -Explain the purpose the regulating body and categories of regulation. -State professions who can legally prescribe medications. -Define controlled drugs.</td></tr><tr><td><b>Course Outcome 3</b></td><td><b>Learning Objectives for Course Outcome 3</b></td></tr><tr><td>Describe drug sources and</td><td>-Interpret the common drug names: chemical, generic and</td></tr></table>	<b>Course Outcome 1</b>	<b>Learning Objectives for Course Outcome 1</b>	Explain the basic principles related to the practice of pharmacology	-Define pharmacology and four related subdivisions -Discuss the historical significance of pharmacology -Explain the role of the pharmacist and health office personnel -State 3 medical uses for drugs	<b>Course Outcome 2</b>	<b>Learning Objectives for Course Outcome 2</b>	Discuss regulation, safety and controlled substances as each relates to the practice of pharmacology	-Name the Canadian regulatory body responsible for maintaining and regulating drug safety. -Explain the purpose the regulating body and categories of regulation. -State professions who can legally prescribe medications. -Define controlled drugs.	<b>Course Outcome 3</b>	<b>Learning Objectives for Course Outcome 3</b>	Describe drug sources and	-Interpret the common drug names: chemical, generic and
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	forms	brand name. -Name the four common drug sources. -Differentiate among the drug forms. -Name the types of solid preparations. -Explain why some tablets are scored. -Give examples of liquid preparations. -Name three forms of solutions. -Define abbreviations related to the forms of medications. -Explain the difference between ointment and cream. -Explain how a transdermal patch works.
	<b>Course Outcome 4</b>	<b>Learning Objectives for Course Outcome 4</b>
	Comprehend drug doses and effects.	-Describe differences between local and systemic effects. -Differentiate between therapeutic dose, maintenance dose, maximal dose and lethal dose. -Describe how to access the nearest Poison Control Centre -Define drug effect terminology. -Define therapeutic effect, adverse effect and toxic effect. -Describe the manufacturers responsibility regarding side effects. -Understand the basic effects of a drug -Differentiate between drug abuse and drug addiction. -Explain drug interaction with certain foods, beverages or other medications. -Define Synergism and Antagonism
	<b>Course Outcome 5</b>	<b>Learning Objectives for Course Outcome 5</b>
	Outline the basic concepts of drug administration.	-List the ten main routes of drug administration. -Name the seven rights of drug administration -Name the types of oral solid administration. -Name the advantages and disadvantages of oral administration. -Name the ways liquid medication can be measured. -Describe types of topical administration. -Explain the four types of parenteral injections. -Name 3 commonly used syringes. -List the 3 types of IV injections. -Differentiate between local and general anesthesia. -Explain the uses for inhalation therapy.
	<b>Course Outcome 6</b>	<b>Learning Objectives for Course Outcome 6</b>
	Interpret the components of a prescription.	-State patient responsibilities for taking medications. -Define common abbreviations written in physicians orders for prescribing drugs. -Define common systems of measurement written in physicians orders for prescribing drugs. -Explain who may write a prescription. -Describe the part of a prescription slip. -Explain why prescription pads should be safely secured. -Explain the clerical steps for refilling a prescription. -Accurately define prescription abbreviations. -Name two classifications of medications having automatic stop policies.
	<b>Course Outcome 7</b>	<b>Learning Objectives for Course Outcome 7</b>

	<p>Explain the use of drug reference resources.</p>	<p>-Differentiate between a CPS and a drug reference guide -Differentiate generic and trade names from a given list of drugs -Locate given drugs in a reference book.</p>
	<b>Course Outcome 8</b>	<b>Learning Objectives for Course Outcome 8</b>
	<p>Discuss in general terms, drug classifications and actions.</p>	<p>-Basics of Drugs and Drug Categories used to treat Body Systems -Name the two major divisions of pain relievers. -Explain the difference among specific over-the-counter (OTC) pain relievers. -Give brand name examples for 5 OTC pain relievers. -State what the term NSAID represents. -List 2 examples of drugs from 10 selected drug classifications using a drug resource. -State the drug classification for 10 selected drugs using a drug resource. -Explain how immunity develops with-in the body and its benefits -State the types of immunity vaccines and immunizations schedules</p>
	<b>Course Outcome 9</b>	<b>Learning Objectives for Course Outcome 9</b>
	<p>Explain the basic principles related to medical tests</p>	<p>-Categorize the two types into which medical tests fall. -Describe each category.</p>
	<b>Course Outcome 10</b>	<b>Learning Objectives for Course Outcome 10</b>
	<p>Discuss the rights of the patient in relation to medical testing.</p>	<p>-Define basic human rights -Name the legislation that refers to informed consent. -Outline who is responsible for providing informed consent. -Explore the role of clerical health office personnel in relation to informed consent.</p>
	<b>Course Outcome 11</b>	<b>Learning Objectives for Course Outcome 11</b>
	<p>Examine the potential responses to medical testing</p>	<p>-Explore the meaning of normal findings, indications, test explanations, contraindications and procedure &amp; patient care regarding medical test -Explore the role of clerical health office personnel in relation to response to medical testing.</p>
	<b>Course Outcome 12</b>	<b>Learning Objectives for Course Outcome 12</b>
	<p>Outline basic medical tests</p>	<p>-State 2 tests commonly ordered in each of the following areas of Clinical Laboratory Testing, Hematology, Chemistry Urinalysis, Microbiology -State what procedure produces samples sent to the Histology department. -List 3 tests that may be ordered from Diagnostic Imaging -Describe the impact of using a contrast medium in an x-ray procedure -Explain types of Cardiology tests -List 4 types of Endoscopic procedures. -Describe 2 screening tests related to the health of women. -Describe 1 screening test related to the health of men. -Describe 1 screening test related to the health of both men and women.</p>

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<b>Date:</b>	March 9, 2020
<b>Addendum:</b>	Please refer to the course outline addendum on the Learning Management System for further information.

