



COURSE OUTLINE: OPA130 - CLINICAL PATHO I

Prepared: Joanna MacDougall

Approved: Bob Chapman, Chair, Health

Course Code: Title	OPA130: CLINICAL PATHOLOGY I
Program Number: Name	3022: OCCUP/PHYSIO/ASSIST
Department:	OTA/PTA ASSISTANT
Semesters/Terms:	19W
Course Description:	The purpose of this course is to introduce the student to the clinical presentation of common disabling conditions which are managed by Occupational Therapy and Physiotherapy. The conditions emphasized will be mainly neurological, cardiorespiratory and/or endocrine in nature. Relevant anatomy/physiology will be reviewed and/or taught prior to the student gaining familiarity with the clinical presentation of the conditions, the associated relevant pathology, and the general goals of intervention of Physiotherapy and/or Occupational Therapy.
Total Credits:	3
Hours/Week:	3
Total Hours:	45
Prerequisites:	OPA103, OPA104, OPA118
Corequisites:	There are no co-requisites for this course.
Substitutes:	OPA106
This course is a pre-requisite for:	OPA203, OPA204, OPA214, OPA216, OPA228
Vocational Learning Outcomes (VLO's) addressed in this course: Please refer to program web page for a complete listing of program outcomes where applicable.	3022 - OCCUP/PHYSIO/ASSIST VLO 2 Participate in the effective functioning of interprofessional health care teams within the role of the therapist assistant. VLO 4 Ensure personal safety and contribute to the safety of others within the role of the therapist assistant. VLO 8 Perform effectively within the roles and responsibilities of the therapist assistant through the application of relevant knowledge of health sciences, psychosociological sciences, and health conditions. VLO 9 Perform functions common to both physiotherapy and occupational therapy practices that contribute to the development, implementation and modification of intervention/treatment plans, under the supervision of and in collaboration with the occupational therapist and/or physiotherapist.
Essential Employability Skills (EES) addressed in this course:	EES 1 Communicate clearly, concisely and correctly in the written, spoken, and visual form that fulfills the purpose and meets the needs of the audience. EES 2 Respond to written, spoken, or visual messages in a manner that ensures effective communication. EES 4 Apply a systematic approach to solve problems. EES 5 Use a variety of thinking skills to anticipate and solve problems.



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	EES 6	Locate, select, organize, and document information using appropriate technology and information systems.
	EES 7	Analyze, evaluate, and apply relevant information from a variety of sources.
	EES 8	Show respect for the diverse opinions, values, belief systems, and contributions of others.
	EES 9	Interact with others in groups or teams that contribute to effective working relationships and the achievement of goals.
	EES 10	Manage the use of time and other resources to complete projects.
	EES 11	Take responsibility for ones own actions, decisions, and consequences.

Course Evaluation:

Passing Grade: 60%, C

Books and Required Resources:

Essentials of Human Diseases and Conditions by Frazier
Publisher: Elsevier - Health Sciences Division Edition: 6th
ISBN: 9780323228367

This text is also used in OPA216. by Additional texts from year one may be used.

Course Outcomes and Learning Objectives:

Course Outcome 1	Learning Objectives for Course Outcome 1
1. Demonstrate general knowledge of relevant anatomy, physiology and neurodevelopment.	1.1 Identify and state normal function of the major parts of the Central Nervous System, Peripheral Nervous System, Immunologic System, Endocrine System, Cardiac System and Respiratory System. 1.2 Identify the stages of normal development of the central nervous system.
Course Outcome 2	Learning Objectives for Course Outcome 2
2. Demonstrate an understanding of the etiology, pathophysiology, and clinical presentation of disease, injury and disability.	2.2 Describe the general principles of disease and injury (alterations in normal cell function, structure, growth and differentiation, inflammation, wound healing and neoplasia) related to pathophysiology. 2.3 Describe the following conditions including the etiology, pathophysiology and clinical presentation: - Neurological Conditions - Alterations in the Peripheral Nervous System: -trigeminal neuralgia -eripheral neuritis -nerve entrapment syndromes: carpal tunnel syndrome, tarsal tunnel syndrome, deQuarvains sciatica, median, ulnar and radial nerve lesions, Bells Palsy, -Plexus injuries (Erbs etc.) - Traumatic and Vascular Injuries: -upper and lower motor neuron lesions -head injury, epidural and subdural hematoma, cerebral concussion and contusion, skull fractures, coma, hypoxia -vascular disorders cerebrovascular accident, transient ischemic attack, aneurysms -spinal cord injuries -disorders, epilepsy -brain tumors -infections` encephalitis, meningitis, poliomyelitis and postpolio



syndrome, Guillain-Barre syndrome, Reyes syndrome
 - Congenital or Developmental Disorders:
 -spina bifida, meningocele, myelomeningocele, hydrocephalus
 -cerebral palsy
 -muscular dystrophy, spinal muscular atrophy
 -Downs Syndrome
 - Pervasive Development Disorders, Autism
 - Disorders of Progressive Weakness or Paralysis:
 -myasthenia gravis
 -multiple sclerosis
 -amyotrophic lateral sclerosis
 -parkinsons disease
 -huntingtons chorea
 - Cognitive Disorders
 - Learning Disorders' developmental delay, developmental coordination disorder, attention deficit disorder
 - Tic Disorders, Tourettes
 - Dementia, Alzheimers disease, vascular dementia, dementia due to head trauma
 - Depression/Bipolar Disorder
 - Anxiety disorders
 - Schizophrenia
 - Diseases of the Cardio-Respiratory System:
 Respiratory
 -Pneumonia
 -Chronic Obstructive Pulmonary Disease, bronchitis, asthma, emphysema
 -Cystic Fibrosis
 -Pulmonary Embolism, Hemoptysis, Atelectasis
 -Pleurisy
 -Pneumothorax, Hemothorax
 -Flail Chest
 -Pulmonary Tuberculosis
 -Infectious Mononucleosis -Epstein-Barr Virus
 -Adult Respiratory Distress Syndrome
 -Lung Cancer, Hodgkins Disease
 Cardiac and Circulatory
 -Coronary Artery Disease, angina pectoris, myocardial infarction
 -Cardiac Arrest
 -Hypertensive Heart Disease
 -Congesitve Heart Failure
 -Cor Pulmonale
 -Pulmonary Edema
 -Valvular Heart Disease
 -Emboli
 -Arteriosclerosis. Atherosclerosis (aneurysms, phlebitis, thrombophlebitis, varicose v
 veins, Raynauds Disease)
 -Leukemias
 -Lymphatic Diseases
 -Hemophilia



	Course Outcome 3 3. Describe the general role of the endocrine system.	Learning Objectives for Course Outcome 3 3.1 Define the following: hormone, target organ/tissue, endocrine gland, exocrine gland. 3.2 Explain how endocrine glands are regulated. 3.3 Identify specified endocrine glands on a diagram, chart or model. 3.4 Explain the function of key hormones as they relate to the musculoskeletal system Diseases of the Endocrine System: - Cystic Fibrosis - Pituitary Gland Diseases (hyperpituitarism, hypopituitarism, dwarfism, Diabetes Insipidus) - Thyroid Gland Diseases (goiter, hyperthyroidism, hypothyroidism, cancer of the thyroid) - Adrenal Gland Diseases (Cushings Syndrome, Addisons Disease) - Endocrine Dysfunction of the Pancreas (Diabetes Mellitus)																					
	Course Outcome 4 4. Demonstrate knowledge of the clinical implications of common disabling conditions managed in Occupational Therapy and Physiotherapy.	Learning Objectives for Course Outcome 4 4.1 Explain the effect of specific conditions on normal growth and development and/or the aging process. 4.2 Identify the impact of specific conditions on the physical, psychosocial and environmental aspects of an individuals function.																					
	Course Outcome 5 5. Demonstrate knowledge of assessment, diagnosis, intervention and prognosis of specific common disabling conditions.	Learning Objectives for Course Outcome 5 5.1 Recognize and list appropriate assessment processes and diagnostic tests. 5.2 List and describe appropriate treatment interventions, outcomes and prognosis. 5.3 Explore and describe the role of the OTA and PTA in the interdisciplinary management of different conditions.																					
Evaluation Process and Grading System:	<table> <tr> <th>Evaluation Type</th><th>Evaluation Weight</th><th>Course Outcome Assessed</th></tr> <tr> <td>1. Module 1 Quizzes</td><td>20%</td><td></td></tr> <tr> <td>2. Module 1 Group Presentation</td><td>10%</td><td></td></tr> <tr> <td>3. Module 1 Unit Test</td><td>20%</td><td></td></tr> <tr> <td>3. Module 2 Quizzes</td><td>20%</td><td></td></tr> <tr> <td>4. Module 2 Group Presentation</td><td>10%</td><td></td></tr> <tr> <td>5. Module 2 Unit Test</td><td>20%</td><td></td></tr> </table>		Evaluation Type	Evaluation Weight	Course Outcome Assessed	1. Module 1 Quizzes	20%		2. Module 1 Group Presentation	10%		3. Module 1 Unit Test	20%		3. Module 2 Quizzes	20%		4. Module 2 Group Presentation	10%		5. Module 2 Unit Test	20%	
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	Please refer to the course outline addendum on the Learning Management System for further information.																						

