



SUBJECT OUTLINE

Subject Name:

Clinical Pathophysiology and Pharmacology 3

Subject Code:

BIOP311

SECTION 1 – GENERAL INFORMATION

Award/s:	Total Course Credit Points:	Level:
Bachelor of Health Science (Chinese Medicine)	128	2 nd Year
Bachelor of Health Science (Acupuncture Therapies)	96	2 nd Year
Duration: 1 Semester		
Subject is: Core	Subject Credit Points: 4	

Student Workload:

No. timetabled hours per week: 6	No. personal study hours per week: 4	Total hours per week: 10
Delivery Mode*:		
<input type="checkbox"/> On campus <input type="checkbox"/> Online / Digital <input checked="" type="checkbox"/> Blended <input type="checkbox"/> Intensive		
Weekly Session^ Format/s - 2 sessions per week:		
Sessions except 1 - 21		
<input checked="" type="checkbox"/> Livestream lectures:	<input checked="" type="checkbox"/> 2 hours <input type="checkbox"/> 3 hours	2 x 2-hour lectures per week
<input checked="" type="checkbox"/> eLearning modules / tutorial: Tutorials: 2 x 1 hour Interactive online learning modules that include learning journal activities, interactive clinical cases or other web-based resources		
Sessions 22 - 26		
<input checked="" type="checkbox"/> On campus workshops:	<input type="checkbox"/> 2 hours <input checked="" type="checkbox"/> 3 hours	1 x 3-hour practical workshop per session
<p>*All modes are supported by the online learning management system which will include subject documents such as handouts, readings and assessment guides.</p> <p>^A 'session' is made up of 3 hours of timetabled / online study time per week unless otherwise specified. Each subject has a set number of sessions as outlined above.</p>		
Study Pattern: <input checked="" type="checkbox"/> Full Time <input checked="" type="checkbox"/> Part Time		
Pre-requisites: BIOP221		
Co-requisites: Nil		



SECTION 2 – ACADEMIC DETAILS

Subject Rationale

This subject builds on the knowledge gained in Clinical Pathophysiology and Pharmacology 1 and 2. It covers disorders related to the nervous, integumentary, lymphatic and haematological systems. This subject further considers neoplasia and disorders that affect the ear, nose, throat, and paediatric disorders as well as multisystem disorders. These systems are taught with respect to their pathophysiology, clinical presentation, medical red flag symptoms, diagnostic tests, clinical examination, and pharmacological treatments. Upon successful completion of this subject, the students should be able to demonstrate a thorough understanding of pathophysiology and disease states and their pharmacological treatments.

Learning Outcomes

1. Describe the aetiologies and pathophysiological processes of various diseases and how they contribute to the development of signs and symptoms.
2. Identify laboratory and other diagnostic test results as applied to various disease conditions.
3. Discuss common drug classes, indications, actions, main adverse effects and contraindications as applied to various disease states.
4. Perform a range of clinical examination techniques to examine relevant systems.

Assessment Tasks

Type	Learning Outcomes Assessed	Session Content Delivered	Due	Weighting
Attendance (Attendance at 100% of indicated sessions is required)	4	22-26 (On campus practical workshops)	Sessions 22-26	P/F
Written Assignment 1 (750 words)	1-3	1-8	Week 6	20%
Written Assignment 2 (1000 words)	1-3	9-19	Week 12	40%
Practical Exam (30 minutes)	4	22-26	Week 15	40%

All written assessments and online quizzes are due at 11:55 p.m. and submitted through the LMS.

To achieve a passing grade in this subject, students must:



- have a cumulative mark of at least 50%, and
- have submitted all assessment items with a value greater than 15%, and
- meet attendance requirements. Absences require approved attendance waivers and subsequent make-up activity to be completed.

Prescribed Readings:

Penman, I. D., Ralston, S. H., Strachan, M. W. J., & Hobson, R. P. (Eds.). (2023). *Davidson's principles and practice of medicine* (24th ed.). Elsevier.

Recommended Readings:

Bryant, B., & Knights, K. (2022). *Pharmacology for health professionals* (6th ed.). Elsevier. [ebook available].

Jarvis, C., & Eckhardt, A. (2023). *Physical examination & health assessment* (9th ed.). Elsevier.

Norris, T. L. (2019). *Porth's pathophysiology: Concepts of altered health states* (10th ed.). Wolters Kluwer.

Subject Content

Week	Lecture	Tutorial
1.	<p>Session 1</p> <p>Nervous System Disorders 1</p> <ul style="list-style-type: none"> ➤ Presenting problems in nervous system diseases ➤ Disorders of the cerebral spinal fluid ➤ Cerebrovascular diseases 	Case related activities on nervous system disorders
	<p>Session 2</p> <p>Nervous System Disorders 2</p> <ul style="list-style-type: none"> ➤ Inflammatory diseases ➤ Degenerative diseases ➤ CNS infections 	Case related activities on nervous system disorders
2.	<p>Session 3</p> <p>Nervous System Disorders 3</p> <ul style="list-style-type: none"> ➤ Psychological medicine ➤ Mood disorders ➤ Anxiety disorders 	Case related activities on nervous system disorders
	<p>Session 4</p> <p>Nervous System Disorders</p>	Case related activities on nervous system disorders



	<ul style="list-style-type: none"> ➤ Schizophrenia ➤ Eating disorders ➤ Substance abuse 	
3.	Session 5 <ul style="list-style-type: none"> ➤ Revision of previous topics 	Interactive tutorial activities for revision purposes
	Session 6 Integumentary System Disorders 1 <ul style="list-style-type: none"> ➤ Overview of the integumentary system ➤ Presenting problems in integumentary diseases ➤ Examination and investigation of the integumentary system (includes skin, hair, and nails) 	Case related activities on integumentary system disorders
4.	Session 7 Integumentary System Disorders 2 <ul style="list-style-type: none"> ➤ Eczema ➤ Psoriasis ➤ Lichen planus ➤ Skin infections and infestations 	Case related activities on integumentary system disorders
	Session 8 Integumentary System Disorders 3 <ul style="list-style-type: none"> ➤ Acne and Rosacea ➤ Acne vulgaris ➤ Rosacea ➤ Pressure sores 	Case related activities on integumentary system disorders
5.	Session 9 Lymphatic and Haematological Disorders 1 <ul style="list-style-type: none"> ➤ Presenting problems in haematological diseases ➤ Examination and investigation of the haematological system 	Interactive tutorial activities on lymphatic and haematological disorders
	Session 10 Lymphatic and Haematological Disorders 2	Case related activities on lymphatic and haematological disorders



	<ul style="list-style-type: none"> ➤ Iron deficiency anaemia ➤ Megaloblastic anaemia ➤ Anaemia of chronic disease ➤ Haemolytic anaemia ➤ Sickle cell anaemia, Thalassemia 	
6.	<p>Session 11</p> <p>Lymphatic and Haematological Disorders 3</p> <ul style="list-style-type: none"> ➤ Aplastic anaemia ➤ Multiple myeloma 	Case related activities on lymphatic and haematological disorders
	<p>Session 12</p> <p>Lymphatic and Haematological Disorders 4</p> <ul style="list-style-type: none"> ➤ Myeloproliferative disorders ➤ Bleeding disorders ➤ Thrombotic disorders 	Case related activities on lymphatic and haematological disorders
7.	<p>Session 13</p> <p>Neoplasia</p> <ul style="list-style-type: none"> ➤ Cancer development ➤ Epidemiology ➤ Malignant vs. benign cancer: Patterns of presentation and prognosis 	Interactive tutorial activities on neoplasia
	<p>Session 14</p> <p>Cancer Diagnosis</p> <ul style="list-style-type: none"> ➤ Cancer staging ➤ Diagnostic techniques in cancer 	Interactive tutorial activities on cancer diagnosis
<p>NON-TEACHING WEEK (note that make-up classes may be scheduled in this week)</p> <p>Semester 1 – This aligns with the week after Easter so it may fall between Weeks 6 to 8</p> <p>Semester 2 & Online students – The non-teaching week falls between Weeks 7 and 8</p>		
8.	<p>Session 15</p> <p>Drugs used in Neoplastic Disease</p> <ul style="list-style-type: none"> ➤ Alkylating agents ➤ Antimetabolites ➤ Antimitotics 	Interactive tutorial activities on drugs used in neoplastic disease



	<ul style="list-style-type: none"> ➤ Antibiotics cytotoxics ➤ Hormonal antineoplastics 	
	<p>Session 16</p> <p>Haematological Malignancies</p> <ul style="list-style-type: none"> ➤ Leukaemias ➤ Lymphomas 	Interactive tutorial activities on leukaemias and lymphomas
9.	<p>Session 17</p> <p>Ear, Nose, and Throat Disorders</p> <ul style="list-style-type: none"> ➤ Otitis media ➤ Meniere's disease ➤ Upper respiratory infections ➤ Allergic rhinitis 	Case related activities on ear, nose, and throat disorders
	<p>Session 18</p> <p>Ocular Disorders / Diseases of the Eye</p> <ul style="list-style-type: none"> ➤ Conjunctivitis, Blepharitis, Keratitis ➤ Cysts, Styes, Malignancies, Pterygium, Xanthelasma, Molluscum ➤ Glaucoma, Cataract, AMD, Retinal detachment 	Case related activities on eye disorders
10.	<p>Session 19</p> <p>Paediatric Disorders</p> <ul style="list-style-type: none"> ➤ Presenting problems in paediatric disorders 	Case related activities on paediatric disorders
	<p>Session 20</p> <p>Multisystem Disorders 1</p> <ul style="list-style-type: none"> ➤ Multiple Sclerosis ➤ SLE ➤ Diabetes Type 1 and Type 2 	Case related activities on multisystem disorders
11.	<p>Session 21</p> <p>Multisystem Disorders 2</p> <ul style="list-style-type: none"> ➤ Chronic Fatigue syndrome ➤ Cystic Fibrosis ➤ Metabolic Syndrome ➤ Hypertension 	Case related activities on multisystem disorders



	Session 22 ➤ Neurological examination	Practice of neurological examination techniques
12.	Session 23 ➤ Neurological examination (continued)	Practice of neurological examination techniques
	Session 24 ➤ Ear, Nose, Throat	Practice of ear, nose and throat examination techniques
13.	Session 25 ➤ Head and Neck (Lymph nodes)	Practice of head and neck examination techniques
	Session 26 ➤ Practice for Practical Exam Assessment	
14.	Non-Teaching Week / Practical Examination Week 1 Clinical Examination Practical Final scheduled in this week Note that make-up classes may be scheduled in this week	
15.	Non-Teaching Week / Practical Examination Week 2 Note that make-up classes may be scheduled in this week	
16.	Final Examination Week 1 There is no final exam for this subject	
17.	Final Examination Week 2 There is no final exam for this subject	