SUBJECT OUTLINE

Subject Name:

Subject Code:

Pathology and Clinical Sciences 2 and 3

SECTION 1 – GENERAL INFORMATION Total Course Credit Points: Award/s: Level: Bachelor of Health Science (Naturopathy) 128 2nd Year Bachelor of Health Science (Nutritional and Dietetic Medicine) 96 2nd Year **Duration:** 1 Semester Subject is: **Subject Credit Points:** Core 4

Student Workload:				
No. timetabled hours per week: 6	No. personal study hours per week:Total hours per week410		Total hours per week: 10	
Delivery Mode*:				
□ On campus □ O	nline / Digital	⊠ Blend	ed	□ Intensive
Weekly Session [^] Format/s - 2 session	ons per week:			
⊠ Livestream lectures:	🛛 2 hours	□ 3 hours	2 x 2 h	our lectures per week
☑ eLearning tutorials: Tutorials: 2 x 1 hour interactive online learning modules that include learning journal activities, interactive clinical cases or other web-based resources				
*All modes are supported by the online learning management system which will include subject documents such as handouts, readings and assessment guides.				
^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.				
Note : As they are aware, international students on a Student Visa (500) must attend livestream classes on their local campus, using the Virtual Classrooms provided.				
Study Pattern: 🛛 Full Time	🛛 Part Time			
Pre-requisites: Nil				

Co-requisites: BIOC211

SECTION 2 – ACADEMIC DETAILS

Subject Rationale

This advanced pathology subject expands on the knowledge gained in Pathology and Clinical Science 1 (BIOC211), and considers disorders related to sensory organs such as eyes, ears, nose, and throat, and other systems of the human body including the blood, skin, musculoskeletal, endocrine, nervous, and reproductive

BIOS222





systems. This subject further considers disorders that affect more than one body system, giving students an opportunity to look at multisystem disorders and their management. Upon successful completion of this subject, students should be able to apply the knowledge of basic pathophysiological processes to analyse and critically evaluate clinical features, diagnostic tests, management and to understand the basis for differential diagnosis of the relevant disorders covered in this subject.

Learning Outcomes

- 1. Describe the pathophysiological processes and analyse how they contribute to the development of signs and symptoms of various diseases.
- 2. Justify tests used in the diagnosis and management of various diseases.
- 3. Interpret laboratory and other diagnostic test results in the context of client's presenting complaints and incorporate results into the appropriate holistic case analysis.

Assessment Tasks				
Туре	Learning Outcomes Assessed	Session Content Delivered	Due	Weighting
Online quiz (50 minutes)	1-3	1-9	Week 7	30%
Written assignment (1500 words)	1-3	11-17	Week 11	35%
Case Study Assignment (1500 words)	1-3	18-26	Week 15	35%
All written assessments and online quizzes are due at 11:55 p.m. Sunday and submitted through the LMS				

Pass Requirements

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%.

Prescribed Readings:

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

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.

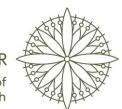


Recommended Readings:

- Jamison, J. R. (2006). *Differential diagnosis for primary care: A handbook for health care practitioners* (2nd ed.). Churchill Livingstone.
- Jarvis, C. (2019). Physical examination & health assessment (8th ed.). Elsevier.
- Lee, G., & Bishop, P. (2016). *Microbiology and infection control for health professionals* (6th ed.). Pearson Australia.
- Reisner, E.G., & Reisner, H. M. (2016). Crowley's an introduction to human disease: Pathology and pathophysiology correlations (10th ed.). Jones & Bartlett.
- Tortora, G. J., Derrickson, B., Burkett, B., Cooke, J., DiPietro, F., Diversi, T., Dye, D., Engel, A., Green, H., Macartney, M., McKean, M., Peoples, G., & Summers, S. (2022). *Principles of anatomy and physiology* (3rd Asia-Pacific ed.). Wiley. [ebook available]
- VanMeter, K. C., & Hubert, R. J. (2014). *Gould's pathophysiology for the health professions* (5th ed.). Saunders. [ebook available]

Subject Content			
Week	Lectures	Tutorials / Practicals	
1.	Session 1 Introduction (Subject Outline / Subject Aims / Assessment / Teaching Resources) Disorders of the Ear, Nose and Throat - pathophysiology / clinical manifestations / investigations / management / differential diagnosis Disorders of the ear	 Activities are developed to allow the students to explore relevant concepts, expand on ideas and have peer and lecturer interaction. Activities also allow for formative assessment and feedback. Post lecture: Interactive tutorial activities on the conditions related to ear, nose and throat 	
	Disorders of the nose and throat		
	Session 2	Post lecture:	
	Ocular Disorders – pathophysiology / clinical manifestations / investigations / management / differential diagnosis	Interactive tutorial activities on the conditions related to eyes and visual disturbances	
	Disorders of the eye		
	 The red eye disorders Lumps and bumps Cataracts Glaucoma Age related macular degeneration Retinal detachment 		
2.	Session 3 Lymphatic and Haematological Disorders 1 - pathophysiology / clinical manifestations /	Post lecture:Interactive tutorial activities on the principles of haematology	

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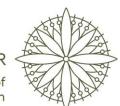
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	investigations /management / differential	
	diagnosis	
	Clinical manifestations of haematological disorders	
	Examination and investigation of the haematological system	
	Session 4	Post lecture:
	Lymphatic and Haematological Disorders 2 – pathophysiology / clinical manifestations / investigations / management / differential diagnosis	Interactive tutorial activities on anaemia
	The anaemias	
	Iron deficiency anaemia	
	O Megaloblastic anaemia	
	O Anaemia of chronic disease	
	③ Haemolytic anaemia	
	Sickle cell anaemia	
	⑦ Thalassemia	
3.	Session 5	Post lecture:
	Lymphatic and Haematological Disorders 3 – pathophysiology / clinical manifestations / investigations / management / differential diagnosis	Interactive tutorial activities on haematological cancers
	 Aplastic anaemia 	
	 Haematological malignancies: 	
	 Leukaemias 	
	O Lymphomas	
	Multiple myeloma	
	Session 6	Post lecture:
	Lymphatic and Haematological Disorders 4 – pathophysiology / clinical manifestations / investigations / management / differential diagnosis	 Interactive tutorial activities on the conditions related to myeloproliferative disorders and bleeding disorders
	Myeloproliferative disorders	
	Bleeding disorders	
	Thrombotic disorders	
4.	Session 7	Post lecture:
	Integumentary System Disorders 1 – pathophysiology / clinical manifestations / investigations / management / differential diagnosis	Interactive tutorial activities on the principles related to integumentary system

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	Clinical manifestations of integumentary system	
	disorders	
	Examination and investigation of the integumentary system	
	Session 8	Post lecture:
	Integumentary System Disorders 2 – pathophysiology / clinical manifestations / investigations / management / differential diagnosis	Interactive tutorial activities on the principles related to integumentary system
	Eczema	
	Psoriasis	
	Lichen planus	
	Skin infections and infestations	
5.	Session 9	Post lecture:
	Integumentary System Disorders 3 - pathophysiology / clinical manifestations / investigations / management / differential diagnosis	Interactive tutorial activities on the principles related to integumentary system
	Acne and Rosacea	
	Acne vulgaris	
	Rosacea	
	Pressure sores	
	Skin tumours	
	Session 10	
	Assessment support	
6.	Session 11	Post lecture:
	Musculoskeletal System Disorders 1 – pathophysiology / clinical manifestations / investigations / management / differential diagnosis	Interactive tutorial activities on the conditions related to bones and joints
	Clinical manifestations of musculoskeletal disorders	
	Examination and investigation of the musculoskeletal system	
	Principles of management of musculoskeletal disorders	
	Session 12	Post lecture:
	Musculoskeletal System Disorders 2 – pathophysiology / clinical manifestations / investigations / management / differential diagnosis Osteoarthritis	Interactive tutorial activities on the conditions related to bones and joints

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	Inflammatory joint diseases	
	O Rheumatoid arthritis	
	Seronegative Spondylarthritis	
7.	Session 13	Post lecture:
	Musculoskeletal System Disorders 3 – pathophysiology / clinical manifestations / investigations / management / differential diagnosis	Interactive tutorial activities on the conditions related to bones and joints
	Sout	
	Bone and joint Infection	
	Diseases of bone	
	 Osteoporosis 	
	Osteomalacia and rickets	
	Paget's disease	
	Sone tumours	
	Fibromyalgia	
	Session 14	Post lecture:
	Musculoskeletal System Disorders 4 – pathophysiology / clinical manifestations / investigations / management / differential diagnosis	Interactive tutorial activities on the neuromuscular disorders
	Neuromuscular disorders	
	 Gait disorders 	
	Involuntary movement	
	② Disorders of the spine and spinal cord	
	② Diseases of nerve	
	② Diseases of the neuromuscular junction	
	NON-TEACHING WEEK (note that make-up classe	s may be scheduled in this week)
	Semester 1 – This aligns with the week after Easter	r so it may fall between Weeks 6 to 8
	Semester 2 & Online students - The non-teaching	g week falls between Weeks 7 and 8
8.	Session 15	Post lecture:
	Endocrine System Disorders 1 – pathophysiology / clinical manifestations / investigations / management / differential diagnosis	Interactive tutorial activities on the conditions related to endocrine system
	Clinical manifestations of endocrine system disorders	
	Thyroid gland disorders	
	Parathyroid gland disorders	
	Session 16	Post lecture:

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		Natural Health
	 Endocrine System Disorders 2 – pathophysiology / clinical manifestations / investigations / management / differential diagnosis Adrenal gland disorders Hypothalamic and pituitary gland disorders 	Interactive tutorial activities on the conditions related to endocrine system
9.	Session 17	Post lecture:
	Endocrine System Disorders 3 – pathophysiology / clinical manifestations / investigations / management / differential diagnosis	 Interactive tutorial activities on diabetes mellitus
	Pancreas/Diabetes Mellitus	
	Session 18	Post lecture:
	Male Reproductive Disorders – pathophysiology / clinical manifestations / investigations / management / differential diagnosis	Interactive tutorial activities on the conditions related to male reproductive system
	Clinical manifestations of male reproductive disorders	
	Examination and investigation of the male reproductive systems	
	Hypogonadism	
	Ognaecomastia	
	Prostate disorders	
	Penile and testicular disorders	
10.	Session 19	Post lecture:
	Female Reproductive Disorders 1 – pathophysiology / clinical manifestations / investigations / management / differential diagnosis	Interactive tutorial activities on the conditions related to female reproductive system
	Clinical manifestations of female reproductive disorders	
	Examination and investigation of the female reproductive systems	
	Delayed puberty	
	Menstrual disorders	
	Urogenital disorders	
	Session 20	Post lecture:
	Female Reproductive Disorders 2 - pathophysiology / clinical manifestations / investigations / management / differential diagnosis	Interactive tutorial activities on the conditions related to female reproductive system

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	Uterine disorders	
	Disorders of the fallopian tubes and ovaries	
	Pelvic inflammatory disease	
	Gynaecological cancers	
11.	Session 21	Post lecture:
	Female Reproductive Disorders 3 –	Interactive tutorial activities on the conditions
	pathophysiology / clinical manifestations /	related to female reproductive system
	investigations / management / differential	
	diagnosis	
	 Breast disorders Breast gisted disorders 	
	Pregnancy related disorders	
	Session 22	Post lecture:
	Infertility, sexually transmitted infections, and	Interactive tutorial activities on infertility, accurate to activities and accurate and accurate the second sec
	paediatric disorders	sexually transmitted diseases, and paediatric disorders
	Infertility	
	 Sexually transmitted infections Deadletric disorders 	
	Paediatric disorders	
12.	Session 23	Post lecture:
	Nervous System Disorders 1 -	Interactive tutorial activities on the conditions
	pathophysiology / clinical manifestations / investigations / management / differential	related to nervous system
	diagnosis	
	Clinical manifestations of nervous system disorders	
	Disorders of the cerebrospinal fluid	
	Cerebrovascular conditions	
	Session 24	Post lecture:
	Nervous System Disorders 2 –	Interactive tutorial activities on the conditions
	pathophysiology / clinical manifestations / investigations / management	related to nervous system
	Inflammatory diseases	
	Degenerative disorders	
	CNS infections	
	CNS tumours	
13.	Session 25	Post lecture:
	Nervous System Disorders 3 –	Interactive tutorial activities on the conditions
	pathophysiology / clinical manifestations /	related to nervous system
	investigations / management / differential	
	diagnosis	
	Psychological medicine	
1	Mood disorders	

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	Anxiety disorders	
	Schizophrenia	
	Eating disorders	
	Drug abuse and misuse	
	Session 26	Post lecture:
	Multisystem Disorders – pathophysiology / clinical manifestations / investigations / management / differential diagnosis	Interactive tutorial activities on the multisystem disorders
	Hypertension	
	Chronic fatigue syndrome	
	SLE	
	Oystic fibrosis	
	Metabolic syndromes	
	Turner's syndrome	
	Klinefelter's syndrome	
14.	Non-Teaching Week/Practical Examination Week	٢1
	Note that make-up classes may be scheduled in this	s week
15.	Non-Teaching Week/Practical Examination Weel	<2
	Note that make-up classes may be scheduled in this	s 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	
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