

SUBJECT OUTLINE



Subject Name:

Pathology and Clinical Science 2

Subject Code:

BIOC222

SECTION 1 – GENERAL INFORMATION

Award/s:

Bachelor of Health Science (Acupuncture)

Bachelor of Health Science (Musculoskeletal Therapy)

Total course credit points:

128

96

Level:

2nd Year

2nd Year

Duration: 1 Semester

Subject Coordinator: Tirtha Goradia (Perth Campus)

Subject is: Core

Subject Credit Points: 2

Student Workload:

No. timetabled hours per week:	No. personal study hours per week:	Total hours per week:
3	2	5

Delivery Mode:

Face to face	1 x 2 hour lecture	1 x 1 hour tutorial
E-Learning	Details:	Narrated Powerpoint presentations Asynchronous tutor moderated discussion forum and activities Student handouts, web-based resources
Full Time		
Part Time		

Pre-requisites: BIOB111, BIOH111, BIOH122, BIOC211

Co-requisites: Nil

SECTION 2 – ACADEMIC DETAILS

Subject Rationale

This subject expands on the knowledge gained in Pathology and Clinical Science 1 (BIOC211). It involves the pathophysiology, clinical features, investigations, and management of disorders related to sensory organs such as ears, eyes, nose and throat, as well as blood, skin and the musculoskeletal system. Upon successful completion of this subject, students should be able to apply the knowledge of basic pathological processes to analyse and critically evaluate clinical features, determine appropriate investigation tests and to understand the basis for the differential diagnosis of relevant disorders related to the above systems.

Learning Outcomes

1. Discuss the different pathological processes involved in the development of diseases related to ear, nose, throat, eyes, haematology, lymphatic, integumentary and musculoskeletal systems.
2. Identify and analyse how underlying pathological processes contribute to signs and symptoms of diseases related to ear, nose, throat, eyes, haematology, lymphatic, integumentary and musculoskeletal systems.
3. Analyse clinical features in the differential diagnosis of diseases.
4. Identify and apply appropriate diagnostic investigation tests to differential diagnosis.
5. Discuss how disease pathology influences patient management.
6. Validate the disease diagnosis with reference to clinical findings.

Assessment Tasks				
Type	Learning Outcomes Assessed	Week Content Delivered	Week Due	Weighting
Online Quiz Multiple choice, image related questions (45 minutes)	1-3	1-4	Sunday following Week 7	25%
Case Study Assignment (1500 words)	1-6	5 -9	Sunday following Week 11	25%
Final Exam Case-based, extended response (2 hours)	1-6	1-13 (maximum 50% weight on sessions 1-9)	Final Exam Period	50%

Prescribed readings:

- Grossman, S. C., & Porth, C. M. (2014). *Porth's pathophysiology: Concepts of altered health states* (9th ed.). Philadelphia, PA: Wolters Kluwer Health.
- Walker, B. R., Colledge, N. R., Ralston, S. H., & Penman, I. D. (Eds.). (2014). *Davidson's principles and practice of medicine* (22nd ed.). Edinburgh, Scotland: Churchill Livingstone Elsevier. [ebook available]

Recommended readings:

- Crowley, L. V. (2013). *An introduction to human disease: Pathology and pathophysiology correlations* (9th ed.). Burlington, MA: Jones & Bartlett Learning.
- Jamison, J. R. (2006). *Differential diagnosis for primary care: A handbook for health care practitioners* (2nd ed.). Edinburgh, Scotland: Churchill Livingstone Elsevier.
- Jarvis, C. (2016). *Physical examination & health assessment* (7th ed.). St Louis, MO: Elsevier. [ebook available]
- Kumar, P., & Clark, M. (2012). *Kumar and Clark's clinical medicine* (8th ed.). Edinburgh, Scotland: Elsevier Saunders.
- Kumar, V., Abbas, A. K., & Aster, J. C. (2015). *Robbins & Cotran pathologic basis of disease* (9th ed.). Philadelphia, PA: Elsevier Saunders. [ebook available]
- McCance, K. L., & Huether, S. E. (Eds.). (2014). *Pathophysiology: The biologic basis for disease in adults and children* (7th ed.). St. Louis, MO: Elsevier. [ebook available]
- Michael-Titus, A., Revest, P., & Shortland, P. (2010). *The nervous system: basic science and clinical conditions* (2nd ed.). Edinburgh, Scotland: Churchill Livingstone Elsevier.
- O'Toole, M. T. (Eds.). (2013). *Mosby's dictionary of medicine, nursing and health professions* (9th ed.). St. Louis, MO: Elsevier. [ebook available]
- Tortora, G. J., & Derrickson, B. (2014). *Principles of anatomy and physiology* (14th ed.). Danvers, MA: Wiley.
- VanMeter, K. C., & Hubert, R. J. (2014). *Gould's pathophysiology for the health professions* (5th ed.). St Louis, MO: Saunders Elsevier. [ebook available]

Subject Content		
Week	Lecture	Tutorial
1.	Introduction Subject Outline / Subject Aims / Assessment / Teaching Resources Disorders of the Ear, Nose and Throat	Revision of the diseases related to Ear, Nose and Throat through the use of case studies.

	<ul style="list-style-type: none"> • Overview of the human ear • Presenting problems in ear disorders • Disorders of the Ear: <ul style="list-style-type: none"> ○ Otitis media ○ Meniere's disease • Overview of the human ear and URT • Presenting problems in URT disorders • Disorders of the Nose and Throat 	
2.	Ocular Disorders <ul style="list-style-type: none"> • Overview of the human eye • Disorders of the Eye <ul style="list-style-type: none"> ○ The red eye ○ Lumps and bumps ○ Cataracts ○ Glaucoma ○ Age related macular degeneration ○ Retinal detachment 	Revision of the diseases related to eyes and visual disturbances through the use of case studies.
3.	Lymphatic and Haematological Disorders 1 <ul style="list-style-type: none"> • Overview of the lymphatic and haematological system • Examination and investigation of the haematological system • Presenting problems in haematological diseases 	Revision of the principles of haematology through videos and review questions.
4.	Lymphatic and Haematological Disorders 2 <ul style="list-style-type: none"> • The Anaemias: <ul style="list-style-type: none"> ○ Iron deficiency anaemia ○ Megaloblastic anaemia ○ Anaemia of chronic disease ○ Haemolytic anaemia ○ Haemoglobinopathies 	Revision of the diseases related to anaemia through the use of case studies.
5.	Lymphatic and Haematological Disorders 3 <ul style="list-style-type: none"> • Aplastic Anaemia • Haematological Malignancies: <ul style="list-style-type: none"> ○ Leukaemias ○ Lymphomas ○ Paraproteinaemias 	Revision of the diseases related to haematological cancers through the use of case studies.
6.	Lymphatic and Haematological Disorders 4 <ul style="list-style-type: none"> • Myeloproliferative Disorders • Bleeding Disorders • Thrombotic disorders 	Revision of the diseases related to myeloproliferative disorders and bleeding disorders through the use of case studies and online videos.
7.	Integumentary System Disorders 1 <ul style="list-style-type: none"> • Overview of the integumentary system • Examination and investigation of the integumentary system • Presenting problems in integumentary diseases 	Revision of the principles related to integumentary system through the use of case studies.
NON-TEACHING WEEK (make-up classes may be scheduled in this week)		

Semester 1 - This aligns with the week after Easter so it may fall between weeks 6 to 8. Semester 2 & Online students - This break falls between Weeks 7 & 8.		
8.	Integumentary System Disorders 2 <ul style="list-style-type: none"> • Eczema • Psoriasis • Lichen planus • Skin infections and infestations 	Revision of the diseases related to integumentary system through the use of case studies.
9.	Integumentary System Disorders 3 <ul style="list-style-type: none"> • Acne and Rosacea • Acne vulgaris • Rosacea • Pressure sores • Skin tumours 	Revision of the diseases related to integumentary system through the use of case studies.
10.	Musculoskeletal System Disorders 1 <ul style="list-style-type: none"> • Overview of the musculoskeletal system • Examination and investigation of the musculoskeletal system • Presenting problems in musculoskeletal diseases • Principles of management of musculoskeletal disorders 	Revision of the diseases related to joints through the use of case studies.
11.	Musculoskeletal System Disorders 2 <ul style="list-style-type: none"> • Osteoarthritis • Inflammatory Joint Diseases: <ul style="list-style-type: none"> ○ Rheumatoid arthritis ○ Seronegative Spondyloarthritis ○ Gout 	Revision of the diseases related to joints through the use of case studies.
12.	Musculoskeletal System Disorders 3 <ul style="list-style-type: none"> • Bone and joint Infection: • Diseases of Bone: <ul style="list-style-type: none"> ○ Osteoporosis ○ Osteomalacia and rickets ○ Paget's disease ○ Bone tumours • Fibromyalgia 	Revision of the diseases related to bones through the use of case studies.
13.	Musculoskeletal System Disorders 4 <ul style="list-style-type: none"> • Neuromuscular disorders <ul style="list-style-type: none"> ○ Gait disorders ○ Involuntary movement ○ Disorders of the spine and spinal cord ○ Diseases of nerve ○ Diseases of the neuromuscular junction 	Revision of the diseases related to muscles through the use of case studies.
14.	Non-Teaching Week/Practical Exam Week. Note that make-up classes may be scheduled in this week.	
15.	Final Exam Week 1 On campus enrolled students: Please refer to the Exam Timetable for your local campus for the exact day and time of exam. Online enrolled students: You are required to sit examinations on campus per the <i>Examination Policy - Higher Education</i> . The Exam Week for subjects offered online is identified in the Online Calendar.	

16. Final Exam Week 2

Please refer to your Exam Timetable for the exact time and day of the final exam