

SUBJECT OUTLINE

Subject Name: Subject Code:

Clinical Nutritional Medicine

NMDC221

No. timetable	orkload: ed hours per week:	No. personal study hours per week:	Total hou	rs per week:
04 14 14	/ I I I			
Subject is:	Core	Subject Credit Points:	6	
Duration:	1 Semester			
	Bachelor of Health Scient	ence (Nutritional and Dietetic Medicine)	96	2 nd Year
	Bachelor of Health Scient	ence (Naturopathy)	128	3 rd Year
Award/s:		Total Course Credit Poin	nts:	Level:
SECTION 1 – GENERAL INFORMATION				

No. timetabled hours p	er week:	No. personal	study hours per	week:	Total hours per week: 15
Delivery Mode*:					
☐ On campus	⊠ O	nline / Digital	□ Blend	led	☐ Intensive
Weekly Session [^] Format/	/s - 3 sessi	ons per week:			
		☐ 2 hours	⋈ 3 hours	2 x live	estream lectures per week
□ Livestream workshops /	tutorials:	☐ 1 hour	⊠ 3 hours	1 x live	estream tutorial per week
*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.					
Study Pattern: Ful	l Time	□ Part Time			
Pre-requisites: NMDM	/121, BIOC	211, NMDF211			
Co-requisites: BIOS2	222				

SECTION 2 – ACADEMIC DETAILS

Subject Rationale

This subject integrates and consolidates knowledge gained from previous health science and nutritional and dietetic medicine subjects through an exploration of the nutritional management of various health conditions and individual cases. Students learn treatment strategies that incorporate dietary modification and nutritional management and learn to critically evaluate these from the perspectives of traditional empirical knowledge and evidence-based research. Potential drug-herb-nutrient interactions are critically discussed. Clinical Nutritional Medicine is an essential foundation for clinical practice.

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Learning Outcomes

- 1. Interpret clinical symptoms and signs, clinical examinations, and pathology testing in assessment of nutritional status and management of complex pathologies.
- 2. Evaluate current research to determine appropriate and effective nutritional therapeutic treatments for the management of different population groups and a variety of health conditions.
- 3. Construct appropriate therapeutic goals and strategies for the dietary and nutritional management of clients with common nutritional and lifestyle presentations.
- 4. Examine the evidence for potential drug-herb-food and nutrient interactions in the treatment of individual
- 5. Discuss the advantages and limitations of nutritional supplementation and diet therapy in the management of individual case examples.

Assessment Tasks					
Туре	Learning Outcomes Assessed	Session Content Delivered	Due	Weighting	
Case Study Part A (1000 words)	1, 3-4	1-8	Week 4	30%	
Case Study Part B (750 words + oral presentation)	1-5	9-16	Week 8	30%	
Professional Portfolio (1500 words)	1-5	1-26	Week 13	40%	

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

Students are required to submit all assessment items with a value of greater than 15% to be eligible to receive a passing grade.

Prescribed Readings:

Raymond, J.L. & Morrow, K. (Eds). (2023). Krause and Mahans food and the nutrition care process (16th ed.). Elsevier. [ebook available]

Recommended Readings:

Allman, T. (2010). Nutrition and disease prevention. Chelsea House.

Braun, L., & Cohen, M. (2014). Herbs and natural supplements: An evidence-based guide (4th ed., Vol. I – II). Churchill Livingstone Elsevier. [ebook available]

Braun, L., & Cohen, M. (2017). Essential herbs and natural supplements. Churchill Livingstone Elsevier.

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Clifford, D., & Curtis, L. (2016). *Motivational interviewing in nutrition and fitness*. The Guildford Press. [ebook available]

Escott-Stump, S. (2015). Nutrition and diagnosis-related care (8th ed.). Wolters Kluwer.

Hechtman, L. (2020). Advanced Clinical Naturopathic Medicine. Elsevier Health Sciences

Pizzorno, J.E., & Murray, M. (2013). Textbook of natural medicine (4th ed.). Elsevier / Churchill Livingstone.

Sarris, J., & Wardle, J. (Eds.). (2019). *Clinical naturopathy: An evidence-based guide to practice* (3rd ed.). Elsevier Australia.

Stargrove, M. B., Treasure, J., & McKee, D. L. (2008). *Herb, nutrient and drug interactions: Clinical implications and therapeutic strategies*. Mosby Elsevier.

Worsely, T. (2008). Nutrition promotion, theories and methods, systems and settings. CABI. [ebook available]

Subj	ect Content	
Week	Lectures	Tutorials / Practicals / Workshops
1.	Session 1	Tutorial/Workshop session:
	Introduction (Subject Outline / Subject Aims / Assessment / Teaching Resources)	Practical activities and case studies based on conditions covered in Sessions 1 and 2:
	Introduction to clinical decision making	Case analysis
	Overview of developing appropriate treatment aims, treatment goals and prescriptions	Investigation of possible drug interactions and nutritional treatment
	Gastrointestinal Tract Disorders: Part 1 Nutritional Therapeutic Management of:	Development of treatment aims, goals and prescriptions
	Diseases of the mouth and oesophagus	Facilitated group work
	⊙ GORD	
	Hiatus hernia	
	Oesophagitis	
	Session 2	
	Gastrointestinal Tract Disorders: Part 2	
	Nutritional Therapeutic Management of:	
	Diseases of the stomach and duodenum	
	Dysbiosis	
	Ulcers	
	Disease and infection of the small intestine	
	Second Food Intolerance vs Food allergy	
	Disease of the pancreas, including inflammation	
	○ Inflammatory Bowel Disease	
	○ Irritable Bowel Syndrome	
	Celiac disease	

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2.	Session 3	Tutorial/Workshop session:		
	Gastrointestinal Tract Disorder: Part 3	Practical activities and case studies based on		
	Nutritional Therapeutic Management of:	conditions covered in Sessions 3 and 4:		
	Large intestine (colon and rectum)	Case analysis		
	Diverticulitis	Investigation of possible drug interactions and		
	Oconstipation and Diarrhoea	nutritional treatment		
	Haemorrhoids	Development of treatment aims, goals and prescriptions		
	Tumours of the digestive system	Facilitated group work		
	Session 4	T acintated group work		
	Gastrointestinal Tract Disorders: Part 4			
	Nutritional Therapeutic Management of:			
	Liver and biliary tract			
	○ Cholecystitis			
	○ Cirrhosis			
	Alcoholic liver disease			
	Non-alcoholic liver disease			
3.	Session 5	Tutorial/Workshop session:		
	Cardiovascular System Disorders	Practical activities and case studies based on		
	Identifying emergency situations and	conditions covered in Sessions 5 and 6:		
	determining appropriate actions	Case analysis		
	Nutritional Therapeutic Management of:	Investigation of possible drug interactions and		
	Atherosclerosis	nutritional treatment		
	Hyperlipidaemia	Development of treatment aims, goals and prescriptions		
	Hypertension	Facilitated group work		
	Coronary heart disease	T admitated group work		
	Angina			
	Myocardial infarction			
	Primary and secondary prevention of			
	cardiovascular disorders and events			
	Post cardiovascular events			
	Session 6			
	Cerebrovascular and Peripheral Vascular Disorders			
	Nutritional Therapeutic Management of:			
	Raynaud's disease			
	Varicose veins			
	Vascular disease			

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	Post cerebrovascular events	
4.	Session 7 Respiratory System Disorders Nutritional Therapeutic Management of: Asthma COPD Pneumonia Bronchitis (acute) Infections of the upper respiratory system Sinusitis Colds and Flu Allergic rhinitis	 Tutorial/Workshop session: Practical activities and case studies based on conditions covered in Sessions 7 and 8: Case analysis Investigation of possible drug interactions and nutritional treatment Development of treatment aims, goals and prescriptions Facilitated group work
	 Otitis media Session 8 Ocular Disorders Nutritional Therapeutic Management of: Diseases of the eye, including: Cataracts Glaucoma Conjunctivitis Age-related macular degeneration Dry eye 	
5.	Session 9 Lymphatic and Haematological Disorders Nutritional Therapeutic Management of: Iron deficiency anaemia Non-iron deficiency anaemias Thrombosis Bleeding disorders Haematological malignancies Session 10	 Tutorial/Workshop session: Practical activities and case studies based on conditions covered in Sessions 9 and 10: Case analysis Investigation of possible drug interactions and nutritional treatment Development of treatment aims, goals and prescriptions Facilitated group work
	Integumentary System Disorders Nutritional Therapeutic Management of: Atopic eczema Psoriasis Skin infections Acne vulgaris Rosacea Skin tumours	

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6.	Session 11	Tutorial/Workshop session:
	Musculoskeletal System Disorders	Practical activities and case studies based on
	Nutritional Therapeutic Management of:	conditions covered in Sessions 11 and 12:
	Inflammatory joint diseases:	Case analysis
	Osteoarthritis	Investigation of possible drug interactions and
	Rheumatoid arthritis	nutritional treatment
	⊙ Gout	Development of treatment aims, goals and
	Diseases of the bone including:	prescriptions
	Osteopaenia	Facilitated group work
	Osteoporosis	
	Osteomalacia and rickets	
	Session 12	
	Urinary Tract Disorders	
	Nutritional Therapeutic Management of:	
	Ocystitis / Urinary tract infections (UTIs)	
	Urinary incontinence	
	Kidney stones	
	Kidney disease	
7.	Session 13	Tutorial/Workshop session:
	Endocrine System Disorders 1	Practical activities and case studies based on
	Nutritional Therapeutic Management of:	conditions covered in Sessions 13 and 14:
	Thyroid, parathyroid, adrenals:	Case analysis
	○ Grave's Disease	Investigation of possible drug interactions and nutritional treatment
	Hashimoto's Disease	_
	Parathyroid diseases	Development of treatment aims, goals and prescriptions
	Adrenal disease	Facilitated group work
	Session 14	5 1
	Endocrine System Disorders 2	
	Nutritional Therapeutic Management of:	
	Pancreatitis	
	Diabetes Mellitus 1	
	Diabetes Mellitus 2	
	Gestational Diabetes	
	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 – The non-teaching week falls between	Weeks 7 and 8
8.	Session 15	Tutorial/Workshop session:
	Male Reproductive Disorders	

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	 Nutritional Therapeutic Management of: Prostate disorders Hormonal imbalance conditions Sexual dysfunction Hypogonadism Penile and testicular disorders, including cancer Session 16 Sexually Transmitted Infections 	Practical activities and case studies based on conditions covered in Sessions 15 and 16: Case analysis Investigation of possible drug interactions and nutritional treatment Development of treatment aims, goals and prescriptions Facilitated group work
	Nutritional Therapeutic Management of: Sexually transmitted diseases Viral Bacterial Fungal	
9.	Session 17 Female Reproductive Disorders 1 Nutritional Therapeutic Management of: Female Reproductive disorders Delayed puberty Menstrual disorders Pelvic inflammatory disease Polycystic ovary disease Uterine disorders & cancers Session 18 Female Reproductive Disorders 2 Nutritional Therapeutic Management of: Breast disorders: Mastitis Fibrocystic changes Cancers	Tutorial/Workshop session: Practical activities and case studies based on conditions covered in Sessions 17 and 18: Case analysis Investigation of possible drug interactions and nutritional treatment Development of treatment aims, goals and prescriptions Facilitated group work
10.	Session 19 Paediatric Disorders Nutritional Therapeutic Management of: Croup Cognitive/behavioural issues (autism, ADHD) Failure to thrive Iron deficiency Childhood digestive issues Childhood cancers	 Tutorial/Workshop session: Practical activities and case studies based on conditions covered in Sessions 19 and 20: Case analysis Investigation of possible drug interactions and nutritional treatment Development of treatment aims, goals and prescriptions Facilitated group work

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	Session 20	
	Geriatric Conditions and Healthy Aging	
	Nutritional Therapeutic Management of:	
	Malnutrition	
	Oral health	
	Incontinence and constipation	
	Ageing and the digestive system	
	Polypharmacy	
11.	Session 21	Tutorial/Workshop session:
	Nervous System Disorders 1	Practical activities and case studies based on
	Nutritional Therapeutic Management of:	conditions covered in Sessions 21 and 22:
	Headaches and migraines	Case analysis
	Insomnia	Investigation of possible drug interactions and
	Atypical neurology	nutritional treatment
	CNS infections	Development of treatment aims, goals and prescriptions
	Session 22	Facilitated group work
	Nervous System Disorders 2	
	Nutritional Therapeutic Management of:	
	Inflammatory and degenerative diseases	
	Parkinson's disease	
	Multiple sclerosis	
	Alzheimer's disease	
12.	Session 23	Tutorial/Workshop session:
	Nervous System Disorders 3	Practical activities and case studies based on
	Nutritional Therapeutic Management of:	conditions covered in Sessions 23 and 24:
	Mood disorders	Case analysis
	Anxiety disorders	Investigation of possible drug interactions and nutritional treatment
	Eating disorders	
	Substance abuse	Development of treatment aims, goals and prescriptions
	Session 24	Facilitated group work
	Multi-System Disorders	
	Nutritional Therapeutic Management of:	
	Fibromyalgia	
	Chronic Fatigue Syndrome	
	Cystic Fibrosis	
	• SLE	
	Metabolic syndromes	
13.	Session 25	Tutorial/Workshop session:

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	Compounding Workshop 1	Practical activities and case studies based on	
	Compounding ingredients and excipients	conditions covered in Sessions 25 and 26:	
	List of ingredients	Case analysis	
	Basic formulating skills	Investigation of possible drug interactions and	
	Session 26	nutritional treatment	
	Compounding Workshop 2	Development of treatment aims, goals and prescriptions	
	Therapeutic doses and calculating formulations	Facilitated group work	
14-15.	Non-Teaching Weeks / Practical Examination Weeks 1 & 2		
	Note that make-up classes may be scheduled in these weeks		
16-17.	Final Examination Weeks 1 & 2		
	There is no final exam for this subject		

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