SUBJECT OUTLINE

Subject Name:

Subject Code:

ENDEAVOUR

College of Natural Health

Clinical Nutritional Medicine

NMDC221

SECTION 1 – GENERAL INFORMATION					
Award/s:	Total Course Credit Points: Level:				
	Bachelor of Health Science (Naturopath	hy)	128	3 rd Year	
	Bachelor of Health Science (Nutritional and Dietetic Medicine)		96	2 nd Year	
Duration:	1 Semester				
Subject is:	Core	Subject Credit Points:	6		

rs per week:					
	No. personal study hours per week: 6		Total hours per week: 15		
	·				
⊠ 0	nline / Digital	□ Blend	led	□ Intensive	
mat/s - 3 sessi	ons per week:				
:	2 hours	🛛 3 hours	2 x live	stream lectures per week	
ps / tutorials:	🗌 1 hour	🛛 3 hours	1 x livestream 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.					
Full Time	⊠ Part Time				
MDM121, BIOC	211, NMDF211				
OS222					
	mat/s - 3 sessions pps / tutorials: and assessmen p of 3 hours of per of sessions a Full Time	☑ Online / Digital mat/s - 3 sessions per week: : □ 2 hours ops / tutorials: □ 1 hour ted by the online learning manage and assessment guides. p of 3 hours of timetabled / onlin ber of sessions as outlined above. □ Full Time ☑ Part Time MDM121, BIOC211, NMDF211	☑ Online / Digital □ Blend mat/s - 3 sessions per week: □ : □ 2 hours ☑ 3 hours ops / tutorials: □ 1 hour ☑ 3 hours ted by the online learning management system which and assessment guides. □ online study time per we ber of sessions as outlined above. □ Full Time ☑ Part Time MDM121, BIOC211, NMDF211 □	☑ Online / Digital □ Blended mat/s - 3 sessions per week:	

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.



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 cases.
- 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 quizzes are due at 11:55 p.m. Sunday and submitted through the LMS

Prescribed Readings:

1. Raymond, J.L. & Morrow, K. (2021). Krause and Mahans food and the nutrition care process (16th ed.). Elsevier.

Recommended Readings:

- 1. 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]
- 3. Braun, L., & Cohen, M. (2017). *Essential herbs and natural supplements*. Churchill Livingstone Elsevier.



- 4. Clifford, D., & Curtis, L. (2016). *Motivational interviewing in nutrition and fitness*. The Guildford Press. [ebook available]
- 5. Escott-Stump, S. (2015). Nutrition and diagnosis-related care (8th ed.). Wolters Kluwer.
- 6. Hechtman, L. (2020). Advanced Clinical Naturopathic Medicine. Elsevier Health Sciences
- 7. Pizzorno, J.E., & Murray, M. (2013). *Textbook of natural medicine* (4th ed.). Elsevier / Churchill Livingstone.
- 8. Sarris, J., & Wardle, J. (Eds.). (2019). *Clinical naturopathy: An evidence-based guide to practice* (3rd ed.). Elsevier Australia.
- 9. Stargrove, M. B., Treasure, J., & McKee, D. L. (2008). *Herb, nutrient and drug interactions: Clinical implications and therapeutic strategies.* Mosby Elsevier.
- 10. 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	Development of treatment aims, goals and
	Nutritional Therapeutic Management of:	prescriptions
	Diseases of the mouth and oesophagus	Facilitated group work
	⊘ GORD	
	O Hiatus hernia	
	 Oesophagitis 	
	Session 2	
	Gastrointestinal Tract Disorders: Part 2	
	Nutritional Therapeutic Management of:	
	Diseases of the stomach and duodenum	
	O Dysbiosis	
	⊘ Ulcers	
	Disease and infection of the small intestine	
	Sood Intolerance vs Food allergy	
	 Disease of the pancreas, including inflammation 	
	Inflammatory Bowel Disease	
	Irritable Bowel Syndrome	

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	O Celiac disease	V
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2.	Session 3	Tutorial/Workshop session:
	Gastrointestinal Tract Disorder: Part 3	Practical activities and case studies based of conditions covered in Sessions 3 and 4:
	Nutritional Therapeutic Management of:	 Case analysis
	 Large intestine (colon and rectum) Diverticulitis 	 Investigation of possible drug interactions and
	_	nutritional treatment
	 Constipation and Diarrhoea Haemorrhoids 	Development of treatment aims, goals an
		prescriptions
		Facilitated group work
	Session 4	
	Gastrointestinal Tract Disorders: Part 4	
	Nutritional Therapeutic Management of:	
	Liver and biliary tract	
	 ⊘ Gallstones Q and a summary of the second se	
	O Cholecystitis	
	 Cirrhosis Viseth section 	
	 Viral hepatitis Alacharia in a factoria 	
	 Alcoholic liver disease Neg slock slip liver disease 	
	Non-alcoholic liver disease	
3.	Session 5	Tutorial/Workshop session:
	Cardiovascular System Disorders	Practical activities and case studies based o conditions covered in Sessions 5 and 6:
	Identifying emergency situations and determining appropriate actions	 Case analysis
	Nutritional Therapeutic Management of:	 Investigation of possible drug interactions an
	 Atherosclerosis 	nutritional treatment
	 Hyperlipidaemia 	Development of treatment aims, goals an
	Hypertension	prescriptions
	 Coronary heart disease 	Facilitated 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	



	Vascular disease	
	Post cerebrovascular events	
4.	Session 7	Tutorial/Workshop session:
	Respiratory System Disorders	Practical activities and case studies based or
	Nutritional Therapeutic Management of:	conditions covered in Sessions 7 and 8:
	Asthma	Case analysis
	OPD COPD	Investigation of possible drug interactions and
	Pneumonia	nutritional treatment
	Bronchitis (acute)	Development of treatment aims, goals and propagintions
	Infections of the upper respiratory system	prescriptions
	 Sinusitis 	Facilitated group work
	Olds and Flu	
	O Allergic rhinitis	
	Otitis media	
	Session 8	
	Ocular Disorders	
	Nutritional Therapeutic Management of:	
	Diseases of the eye, including:	
	O Cataracts	
	③ Glaucoma	
	 Conjunctivitis 	
	O Age-related macular degeneration	
	Ory eye	
5.	Session 9	Tutorial/Workshop session:
	Lymphatic and Haematological Disorders	Practical activities and case studies based on
	Nutritional Therapeutic Management of:	conditions covered in Sessions 9 and 10:
	Iron deficiency anaemia	Case analysis
	Non-iron deficiency anaemias	Investigation of possible drug interactions and
	Thrombosis	nutritional treatment
	Bleeding disorders	Development of treatment aims, goals and propagintions
	Haematological malignancies	 prescriptions Facilitated group work
	Session 10	
	Integumentary System Disorders	
	Nutritional Therapeutic Management of:	
	Atopic eczema	
	Psoriasis	
	Skin infections	
	Acne vulgaris	



	Rosacea			
	Skin tumours			
6.	Session 11	Tutorial/Workshop session:		
	Musculoskeletal System Disorders	Practical activities and case studies based of		
	Nutritional Therapeutic Management of:	conditions covered in Sessions 11 and 12:		
	Inflammatory joint diseases:	Case analysis		
	 Osteoarthritis 	Investigation of possible drug interactions ar		
	③ Rheumatoid arthritis	nutritional treatment		
	 Gout 	Development of treatment aims, goals ar prescriptions		
	Diseases of the bone including:	 Facilitated group work 		
	Osteopaenia	· Facilitated group work		
	 Osteoporosis 			
	Osteomalacia and rickets			
	Session 12			
	Urinary Tract Disorders			
	Nutritional Therapeutic Management of:			
	Cystitis / 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 of		
	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 a state of the stat		
	② Hashimoto's Disease	nutritional treatment		
	② Parathyroid diseases	Development of treatment aims, goals ar preservations		
	Adrenal disease	 prescriptions Facilitated group work 		
	Session 14			
	Endocrine System Disorders 2			
	Nutritional Therapeutic Management of:			
	Pancreatitis			
	Diabetes Mellitus 1			
	Diabetes Mellitus 2			
	Gestational Diabetes			
	NON-TEACHING WEEK (note that make-up class	ses may be scheduled in this week)		
	Semester 1 – This aligns with the week after Easter so it may fall between Weeks 6 to 8			
	•	en Weeks 7 and 8		

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

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	Iron deficiency	Development of treatment aims, goals and prescriptions
	Childhood digestive issues	prescriptions
	Childhood cancers	Facilitated group work
	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 activity addressed
	Eating disorders	nutritional treatment
	Substance abuse	Development of treatment aims, goals and prescriptions
	Session 24	 Facilitated group work
	Multi-System Disorders	
	Nutritional Therapeutic Management of:	
	Fibromyalgia	
	Ohronic Fatigue Syndrome	
	Oystic Fibrosis	



	SLE		
	Metabolic syndromes		
13.	Session 25	Tutorial/Workshop session:	
	Compounding Workshop 1	Practical activities and case studies based on	
	Compounding ingredients and excipients	conditions covered in Sessions 25 and 26:	
	List of ingredients	Sase analysis	
	Basic formulating skills	Investigation of possible drug interactions and additional transformation	
	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		