

SUBJECT OUTLINE

Subject Code: Subject Name:

Sports Nutrition NMDS311

SECTION 1 – GENERAL INFORMATION

Award/s:	Total Course Credit Points:		Level:	
	Bachelor of Health Science (Naturopathy)	128	Elective	4 th Year

Bachelor of Health Science (Nutritional and Dietetic Medicine) 3rd Year 96 Core

1 Semester **Duration:**

Core or Elective as noted **Subject Credit Points:** Subject is: 2

Student Workload:					
No. timetabled hours per week:		No. personal study hours per week: 2		Total hours per week: 5	
Delivery Mode*:					
☐ On camp	us 🗵 O	nline / Digital	☐ Blend	led	
Weekly Session^ Format/s - 1 session per week:					
∠ Livestream lecture	res:	☐ 2 hours	⊠ 3 hours	1 x 3 h	our lecture/tutorial per week
*All modes are supported by the online learning management system which will include subject documents such as handouts, readings, assessment guides and elearning support modules.					
^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:	NMDF121				
Co-requisites:	Nil				

SECTION 2 – ACADEMIC DETAILS

Subject Rationale

This subject introduces students to the specific nutritional requirements for athletes with emphasis placed on the practical application of sports nutrition guidelines and practices. Students will critically evaluate the science and practice of sports nutrition and review the principles and research underpinning current recommendations. Sportsrelated nutritional deficiencies and eating behaviours will be discussed. Students will explore current and emerging sports nutrition dietary information and apply this learning to the development of dietary programs for optimal nutritional health in specific sports and populations of athletes.

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Learning Outcomes

- 1. Identify the key nutrients, their source and quantity required to support athletes in the maintenance of optimal performance and health.
- 2. Describe the practices and processes involved in the nutritional assessment of athletes.
- 3. Apply nutritional case management principles to athletes, including special athletic populations
- 4. Critically evaluate current literature for the evidence-based nutritional support of athletes. ..

Assessment Tasks				
Туре	Learning Outcomes Assessed	Session Content Delivered	Due	Weighting
Mid-semester Written Exam	1-3	1-6	Week 7	45%
Case-based (1.5 hours)				
Case Study Report (2000 words)	1- 4	1- 13	Week 14	55%

All written assessments and online quizzes are due at 11:55 p.m. Sunday 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%.

Prescribed Readings:

Burke, L., & Deakin, V. (2015). Clinical sports nutrition (5th ed.). McGraw Hill. [ebook available]

Recommended Readings:

Belski, L, Forsyth, A & Mantzioris, E. (2019). Nutrition for Sport, Exercise and Performance: A practical guide for students, sports enthusiasts and professionals. Allen & Unwin. [ebook available]

Jeukendrup, A & Gleeson, M. (2018). Sports Nutrition (3rd ed.). Human Kinetics Publishers

Resources:

Australian Institute of Sport. (n.d.). *Nutrition*. https://www.ais.gov.au/nutrition

Sports Dietitians Australia. (n.d.). Fact Sheets https://www.sportsdietitians.com.au/factsheets/

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	ct Content	
Week	Lectures	Tutorial and Self-study Activities
1.	sessment / Teaching Resources) xercise fuel and physiology Physiological bases of exercise Exercise metabolism Training adaptation principles Skeletal muscle Exercise intensity on muscle fuel utilisation	Activities are developed to allow the student explore relevant concepts, expand on ideas have peer and lecturer interaction. Activities allow for formative assessment and feedb Activities can include the following: Readings Videos Case studies Practical exercises such as meal planning.
2.	Body Composition and Nutrition Assessment Body composition assessment methods Application and limitations of methods Measuring nutritional status	 Practical exercises such as meal planning Review questions Students may be encouraged to work independently or in groups
3.	Carbohydrates Requirements Sources and types	
4.	Protein and Fats Nequirements Sources and types 	
5.	 Endurance Sports Requirements Training nutrition Competition nutrition Injury nutrition 	
6.	Power and Team Sports Requirements Training nutrition Competition nutrition Injury nutrition	
7.	Hydration and Electrolytes Requirements Assessment Electrolytes Fatigue Cramps and stitches Supplements	

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	NON-TEACHING WEEK (note that make-up classe	es may be scheduled in this week)
	Semester 1 – This aligns with the week after Easte	· ·
	Semester 2 & Online students – The non-teachin	·
8.	Weight / Muscle Gain for Sport	As above
0.	 Protein and energy requirements 	As above
	 Challenges and barriers 	
	Weight/muscle gain methods	
	Skeletal muscle protein metabolism BCAA	
9.	Weight Making Practices in Sports	
Э.	 Energy metabolism during exercise 	
	Benefits and risks of weight loss	
	 Challenges and barriers 	
	Weight / fat loss methods	
10.		
10.	Diets for Special Athletic Populations - Part 1 Vegetarian diets	
	Gluten free diets	
	 Diabetes and sports nutrition 	
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11.	Diets for Special Athletic Populations - Part 2	
	Disordered eating in athletes	
	Female athlete triad	
	Over training syndrome	
12.	Supplements	
	Australian Institute of Sport (AIS) sport supplement program	
	AIS anti-doping policy	
	How supplements should be used	
	Deficiency in athletes	
	Antioxidants and vitamins	
	Key evidence based supplements and doses	
	Common supplements	
	Injury supplements	
	 Supplements for junior athletes 	
13.	Travelling Athlete	
	Preparing for travel	
	Resources for athletes	
	Catering for athletes	
14.	Non-Teaching Week/Practical Examination Wee	
	Note that make-up classes may be scheduled in th	is week

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15.	Non-Teaching Week/Practical Examination Week 2	
	Note that make-up classes may be scheduled in this week	
16 - 17.	Final Examination Weeks 1 & 2	
	There is no final written exam for this subject	

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