

SUBJECT OUTLINE

Subject Name: Subject Code:

Evidence Based Approaches in Complementary Medicine

SOCA321

C	ECTION 1	- GENERAL	INFORMATION
P.	CUIUNI	- GENERAL	

Award/s: Total Course Credit Points: Level:

Bachelor of Complementary Medicine 48 3rd Year

Duration: 1 Semester

Subject is: Core Subject Credit Points: 2

Student Workload:				
No. timetabled he	ours per week:	: No. personal study hours per week: Total hours per w		Total hours per week: 5
Delivery Mode*:				
☐ On camp	us 🗵 O	nline / Digital	\square Blended	\square Intensive
Weekly Session [^] F	Format/s - 1 sessi	on per week:		
⊠ eLearning modules:		Lectures: Interactive adaptive online learning modules		
		Tutorials: can include as activities, learning journa	-	derated discussion forum and reb-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.				
Study Pattern:	⊠ Full Time	□ Part Time		
Pre-requisites:	SOCQ121			
Co-requisites:	Nil			

SECTION 2 – ACADEMIC DETAILS

Subject Rationale

This subject builds on the underpinning knowledge acquired within the subject SOCQ121 Foundations of Critical Enquiry and provides the opportunity for students to evaluate and discuss different research methodologies in complementary medicine within their application for real world practice. Students will learn principles of balanced research for the purpose of critically evaluating evidence-based research in complementary medicine.

Australian College of Natural Medicine Pty Ltd trading as Endeavour College of Natural Health, Endeavour Wellness Clinic (IHE PRV12070, National CRICOS #00231G, RTO #31489)



Learning Outcomes

- 1. Identify and distinguish between research methodologies used in different health contexts.
- 2. Critically analyse complementary medicine research choices with the view to evaluating model validity, internal and external validity, reporting quality, ethics and outcome validity.
- 3. Evaluate research issues pertinent to complementary medicine with the view to developing a balanced hierarchy of evidence based research.
- 4. Identify and apply different research methods in order to critique research used in complementary medicine.
- 5. Compare and contrast competing paradigms that define research in conventional and complementary medicine.

Assessment Tasks				
Туре	Learning Outcomes Assessed	Session Content Delivered	Due	Weighting
Written Assignment (1000 words)	1-2 & 5	1-6	Week 7	35%
Group Presentation (10 minutes; recorded)	1-2 & 5	1-7	Week 10	15%
Research Project (2000 words)	3-4	1-12	Week 13	50%

All written assessments and online quizzes 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:

Lewith, G., Jonas, W. B., & Walach, H. (Eds.). (2011). Clinical research in complementary therapies (2nd ed.). Elsevier Health Sciences. [ebook available]

Recommended Readings:

Bryman, A. (2016). Social research methods (5th ed.). Oxford University Press.

Greenhalgh, T. (2019). How to read a paper: The basics of evidence-based medicine and healthcare (6th ed.). John Wiley & Sons. [ebook available]

Haveman-Nies, A. (Ed.). (2017). Epidemiology in public health practice (2nd Rev. ed.). Wageningen Academic Publishers.



- Hollway, W., & Jefferson, T. (2012). *Doing qualitative research differently: A psychosocial approach* (2nd ed.). Sage Publications. [ebook available]
- Polgar, S., & Thomas, S. A. (2013). *Introduction to research in the health sciences* (6th ed.). Churchill Livingstone. [ebook available]
- Webb, P. M., & Bain, C. J. (2017). Essential epidemiology: An introduction for students and health professionals (3rd ed.). Cambridge University Press.
- Wheeldon, J., & Ahlberg, M. K. (2012). Visualizing social science research: Maps, methods, & meaning. Sage Publications Ltd.

Subje	Subject Content			
Week	Lectures	Tutorials / Practicals		
1.	 Introduction (Subject Outline / Subject Aims / Assessment / Teaching Resources) Research Skills in Complementary Medicine Research skills from a complementary medicine perspective Complementary medicine practitioners as researchers The importance of research in complementary medicine Balanced research strategies Standards of quality in Complementary and Alternative Medicine (CAM) research 	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. Lectures and tutorials are informed and supported by the use of current relevant research papers. Introduction to the prescribed reading		
2.	Understanding the Research Process in Evidence Based Practice The eight elements of a research project Theoretical issues Epistemology Deductive reasoning Inductive reasoning Concept and mind maps Methodology Data collection	 Advanced searching of databases to locate critical readings for research project Establishing the eight elements for a research project (case study) Creating a mind map and visualising how to plan a research project Facilitated Discussion "How to write a synopsis for a research proposal" 		
3.	Overview of Evidence Qualitative and Quantitative Types of evidence Randomized controlled trials Cohort studies Case studies	Facilitated Discussion Mow to assess methodological quality Understanding and interpreting statistics for the non-statistician How to evaluate research evidence Analysis of paradigms and emerging research 		



	Cross-sectional surveys	Methodologies
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	Bio statistics	Combining traditional and modern research
	Epidemiological methods for public health	Discuss proposal
	studies	Handouts
	Features of evidence	Testing theories in quantitative research
	Efficacy	Steps in hypothesis testing
	Comparative effectivenessEvidence review - systematic reviews; meta-	Design stage considerations in qualitative research
	analysis	Mapping data collection and data analysis
	Mixed methods- exploratory, competing	considerations
	paradigms	Seven stages of interview investigation
4.	Complementary Medicine Research using Case	Facilitated Discussion
	Studies	■ Identification of theoretical frameworks in
	Placebo-controlled explanatory randomized trial	research and how knowledge develops
		Handouts
		Classical theory building in qualitative research
	Cost effectiveness studies	Different types of research questions and their
	Non-randomized matched cohort studies	suitability for randomized controlled trials
	Mixed methods	The Evidence House
	Evaluation of public health epidemiological	Case Study 1
	studies	RCT- Randomised Controlled Trial
		Case Study 2
		PCERT- Placebo-Controlled Explanatory Randomized Trial
		Case Study 3
		Mixed methods
		Case Study 4
		Public health epidemiological study
5.	Evidence Review as a Research Tool	Facilitated discussion of recent case studies
	Systemic evidence review articles	See also for other case work:
	Meta-analysis articles	http://www.ncbi.nlm.nih.gov/pubmed
6.	Research Methods for the Complementary Therapies	Research articles that cover different disciplines and discuss how the methodology is different/similar
	Construction herbal medicine	aoromonimar
	Homeopathy	
	Manual therapies	
	Acupuncture	
	Occidental Medicine	
	Naturopathy	



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	Infection control and public health research: A complementary medicine perspective		
7.	Developing the Research Project	Handouts	
	 Visualising the research project 	Working through the tutorial sheet with	
	▼ Title ▼ Title	examples of each category	
	Introduction and assumptions	Assessing the rigor of evidence: Initial	
	Literature review and research questions	elements for consideration	
	Methodology and data collection	Using and applying traditional evidence	
	NON-TEACHING WEEK (note that 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		r so it may fall between Weeks 6 to 8	
	Semester 2 & Online students – The non-teaching	week falls between Weeks 7 and 8	
8.	Developing the Research Project	Class Discussion	
	Visualising the research project	Stages of a research project	
	Title		
	Introduction and assumptions		
	Literature review and research questions		
	Methodology and data collection		
9.	Developing the Research Project	Class Discussion	
	Findings	Stages of a research project	
	Discussion and limitations		
	Oncept maps		
	Conclusions		
	References		
	Evaluation		
10.	Case Studies	Class Discussion and Analysis	
	Placebo-controlled explanatory randomized	Recent case studies	
	trial		
	Pragmatic randomized controlled trials		
	Ocst effectiveness studies		
	Public health research evaluation case studies		
11.	Case Studies	Facilitated Discussion and Analysis	
	Mixed methods	Exploratory sequential design	
12.	Case Studies	Facilitated Discussion and Activities	
	Public health research project	Research project	
13.	Case Studies	Facilitated Discussion and Activities	
	Public health research project	Research project	
14.	Non-Teaching Week/Practical Examination Weel	< 1	
	Note that make-up classes may be scheduled in this	s week	



15.	Non-Teaching Week/Practical Examination Week 2	
	Note that make-up classes may be scheduled in this 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	