

Level:

1st Year

14

SUBJECT OUTLINE

1 Semester

Award/s:

Duration:

Subject Name: Subject Code:

Foundations of Critical Enquiry SOCQ1

SECTION 1 – GENERAL INFORMATION

Undergraduate Certificate in Human Biology

Subject is:	Core	Subject Credit Points:	2		
Student Wo	Student Workload:				
No. timetable	d hours per week:	No. personal study hours per week: 2	Total hours per week: 5		
Delivery Mode*	:				
☐ On car	mpus 🗵 O	nline / Digital	☐ Intensive		
Weekly Session	n^ Format/s - 1 sessi	ons per week:			
⊠ eLearning mo	□ Elearning modules: Lectures: Interactive adaptive online learning modules				
		Tutorials: can include asynchronous tutor modactivities, learning journal activities or other w			
*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:	Nil				
Co-requisites:	Nil				

Total Course Credit Points:

SECTION 2 – ACADEMIC DETAILS

Subject Rationale

The application of evidence to inform practice in health care requires an understanding of research designs and analytic methods, as well as traditional forms of knowledge. This subject introduces different types and methodologies of research and their strengths and weaknesses as related to the complementary medicine and health sciences. Students will be introduced to the significance of personal values and motivation in the research process. Students will explore the range of clinical research and research methods and become familiar with research literature in relation to specific therapeutic modalities, including the ethics involved, different approaches used, and the assumptions and underlying paradigms. Students will be able to appreciate the importance of the

Australian College of Natural Medicine Pty Ltd trading as Endeavour College of Natural Health, Endeavour Wellness Clinic (IHE PRV12070, National CRICOS #00231G, RTO #31489) SOCQ1 Foundations of Critical Enquiry Version: 7.0



Page 2 of 6

research question, the method appropriate for answering that question and the quality of the research process. This is a foundational subject for the later study of all degrees.

Learning Outcomes

- 1. Describe research paradigms and associated research design and methodologies taking into account traditional and contemporary research evidence.
- 2. Identify a professional practice area of interest or an issue and incorporate knowledge of the research process.
- 3. Describe the nature of research including the ethics involved, different approaches utilised, and the assumptions underlying these approaches.
- 4. Identify the key features in qualitative and/or quantitative statistical techniques appropriate to a particular research design.

Assessment Tasks				
Туре	Learning Outcomes Assessed	Session Content Delivered	Due	Weighting
Research Question (750 words)	1 & 2	1-3	Week 5	20%
Review of quantitative methodology (1000 words)	3 & 4	4-7	Week 8	40%
Review of qualitative methodology (1000 words)	3 & 4	4, 8-12	Week 13	40%

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 Reading:

Creswell, J.W,. & Creswell, J.D. (2023). Research design: Qualitative, quantitative and mixed methods approaches (6th ed.). SAGE.

Recommended Readings:

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



Lewith, G., Jones, W.B., & Walach, H. (2010). *Clinical research in complementary therapies: Principles, problems and solutions* (2nd ed.). Elsevier Health Sciences. [ebook available].

Patton, M. (2015). Qualitative research and evaluation Methods. (4th ed.). Sage.

Wallace, B.A. (2006). *The attention revolution: Unlocking the power of the focused mind.* Wisdom Publications. [ebook available]

Week	Lectures	Tutorials / Practicals	
1.	Introduction (Subject Outline / Subject Aims / Assessment / Teaching Resources) Overview and expectations of the subject Types of knowledge and ways of knowing Introduction to data based searching skills The Four Fold Vision Quest included	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. Four Fold Vision Quest workshop: "This is a secular meditation, designed to cultivate conative intelligence, inspired by principles of Buddhist psychology" (B. A. Wallace, personal communication, May 15, 2019).	
2.	Introduction to a discipline of inquiry; research problems and questions The importance of Epistemology Scientific knowledge and the scientific method Traditional use and evidence Research approaches Qualitative methods Quantitative methods Mixed Methods The Hierarchy of Evidence	 The impact of a researcher's training, experience and personal values in the research process Developing a research question 	
3.	 Introduction to competing paradigms Overview of Research Methodologies What is Positivism? Positivist Research; what are its goals Positivist research; what are its basic assumptions Positivist Research; what are its methods What is meant by Interpretivist? Interpretivist Research; what are its goals Interpretivist research; what are its basic assumptions Interpretivist Research; what are its methods 	 Nature and purpose of ethical considerations Evidence sourcing 	



	T		· · · · · · · · · · · · · · · · · · ·
4.	Introduction to Research Ethics	>	Library Session online; narrated presentation
	Ethics as a requirement for approved research	()	Referencing activity
	Introduction to ethics and moral philosophy		
	Ethics in research		
	Key elements to consider in ethics		
	Informed consent		
	Confidentiality		
	Minimise harms and risks and maximise benefits		
	Respect human dignity		
	Privacy and autonomy		
	Vulnerable populations		
	Strive to distribute the benefits and burdens of research fairly		
5.	Evaluating Research validity and credibility		Using given criteria, please evaluate
	P values		competing research article
	Confidence intervals	>	Evidence sourcing
	Standard deviations		
	Simple statistics		
	Mean, median and mode		
	Figures, charts and diagnostic tables		
6.	Quantitative research methods I	•	Workshop quantitative research question and
	Research Skill Development (RSD)		measurements
	Overview of the quantitative research process	>	Evidence sourcing
	Writing research questions		
	The Literature Review		
	Methodologies		
	Pilot Studies		
7.	Quantitative research methods II	•	Developing criteria check list for evaluating
	Quantitative research question		such qualitative research
	Data Collection	()	Evidence sourcing
	Data analysis		
	Results		
	Conclusions of the research		
	NON-TEACHING WEEK (note that make-up classe	s ma	ay be scheduled in this week)
	Online students – The non-teaching week falls between Weeks 7 and 8		
8.	Qualitative research methodology I	>	Student exercise in writing a qualitative
	Overview of the qualitative research process		research memo
	Writing qualitative research questions	•	Evidence sourcing
<u> </u>		1	

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



			V
	Answering qualitative research question		
	Sampling		
	Negotiating access		
	Data collection		
9.	Qualitative research methodology II	S	Student exercise in writing qualitative research
	Coding		question
	Content Analysis	>	Evidence sourcing
	Thematic Analysis		
	Interpretation		
	Accuracy and Quality		
	Criteria of Evaluation		
	Evaluating the method		
	Evaluating the Results		
10.	Research into Practice	>	Scenario based exercise: Assessing
	The evidence based medical framework and its		appropriateness of methods and research
	limitations		design
	Criticisms of complementary medicine		
	Written communication styles		
	Occupiementary medicine and its relation to		
	morality, ethics and the law		
11.	Data collection and research results in small scale studies	•	Scenario based exercise: Case study
	Case study:		
	 Phenomenological inquiry 		
	Narrative Analysis Hermeneutics		
	Symbolic Interaction System Theory		
	System Theory	_	
12.	Reflection, Insight, and Feedback	>	Analyse research and interpret research results
	Oritiques of evidence based medicine	>	Evaluation
	Generating new insight:	0	The Four Fold Vision Quest workshop:
	The Four Fold Vision Quest included		nis is a secular meditation, designed to cultivate
			native intelligence, inspired by principles of
			ddhist psychology" (B. A. Wallace, personal
			mmunication, May 15, 2019).
13.	Review & Application of Subject Content	Or	al Presentations
	The difference between efficacy and evidence		
	Key message: A lack of evidence is not a lack of efficacy		
	Research its benefits and drawbacks		

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



14.	Non-Teaching Week/Practical Examination Week 1		
	Note that make-up classes may be scheduled in this 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		