



Quantitative Research 1

(589121) 15 Points

Paper overview

This paper provides information about advanced quantitative research methods and statistical data analysis. It focuses on the critical systematic evaluation of research, experimental and non-experimental research designs, statistical analysis of data and the use of computer software for data analysis. This paper is suitable for people who are involved in health related disciplines, and are interested in advancing their knowledge in quantitative research methods and data analysis.

Programme study options

This paper is offered through the Faculty of Health and Environmental Sciences and is a common core research paper for students, who wish to explore advanced quantitative research methods and are enrolled in either a post-graduate diploma or a masters degree both in the health sciences area.

Who can study this paper?

This paper caters for people from a variety of health and health related professions, such as physiotherapists, occupational therapists, podiatrists, nurses, sport and exercise practitioners, physiologists, doctors, osteopaths, oral health professionals, psychologists, and social workers.

What you can expect to learn

This paper covers the following topics:

- Theoretical perspective of quantitative paradigm
- The use of critiquing tools to appraise quantitative research
- Quantitative research designs and procedures
- Statistical data analysis methods
- Clinical versus statistical significance
- Ethical and cultural parameters in research

What you need to study this paper

To study this paper it is essential you have a computer, internet (broadband preferred), email access and that your computer is set up so that you can have access to Blackboard. You will be expected to participate in Blackboard discussion forums, and download course information and resources from Blackboard. Hence, you will need to be able to download files, open attachments and navigate around websites. Students enrolled in the Semester 1 version of the paper are expected to undertake independent learning activities in preparation for the in-school block. For this preparation it is suggested that students use the paper resources on Blackboard and texts from the recommended reading list. We also expect students to have an understanding and knowledge of quantitative research methods and statistics equivalent to that acquired in an undergraduate degree and that this knowledge is health related. If you have not undertaken a research paper at undergraduate level or not studied one for some time, you should complete the online Health Research paper, which is offered monthly through the Faculty of Health and Environmental Sciences. This paper will update your research skills, and familiarise you with the research terminology.

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Paper Coordinator: Dr Sandra Bassett, Ph.D. (*Auckland*), MHS (Hons), BA, Dip Phty (*Otago*).

The lecturers in this paper are experienced lecturers, and active researchers who are recognised nationally and internationally in their field of expertise. Their research is predominantly housed in the quantitative research paradigm. Sandra and Dr Mark Laslett are registered physiotherapists who work in the Department of Physiotherapy, Associate

Professor Mark Boocock works for the Health and Rehabilitation Research Institute, and Associate Professor Paula Kersten works for the Person Centred Research Centre.

Dates and location details

Location: Semester 1, North Shore Campus, AUT University. Semester 2 is online.

Teaching Period(s): This paper is offered twice a year: Semester 1 (27th February to 22nd June 2012) and Semester 2 (16th July to 9th November, 2012)

Online: Yes, Semester 2

Block Course: Yes, Semester 1

Dates: On campus teaching block is Monday 12 March 2012 to mid-day Wednesday 14 March 2012

Teaching style: Interactive lectures, tutorials and computer laboratories.

How will the paper be taught?

For both the on campus and online versions of the paper, we use a variety of teaching and learning techniques, which are primarily problem based learning, with information being delivered in an interactive manner by way of lectures, tutorials, computer laboratories, on-line discussion forums, and one-to-one discussion with students. As this is a postgraduate paper, we expect students to work in an independent manner, which for some students will be a new experience, and therefore our emphasis is upon building a mutually supportive, respectful community of learners. Our role will be as facilitators rather than teachers. We have our own personal and professional experience to bring to the programme, but our role is to create an environment where we can all learn from each other.

How much time will I need to commit to the paper?

This is dependent on your other commitments and the speed at which you learn and work, but on average a 15 point paper typically involves around 8 to 10 hours per week of independent study.

How will the paper be assessed?

There are two modes of assessment:

1. An optional formative 500 word written assignment.
2. A summative written assignment consisting of questions that address quantitative research methods, statistical analysis and critiquing of quantitative research. This assignment has a maximum of 5000 words.

How much does this paper cost?

15 point paper tuition fees for domestic students in 2012 is approximately NZ\$1000. Additional fees for study may include; a learner services levy, student association (AUSM) fee, charges and paper activity fees. Please contact us for further information (International students email international.centre@aut.ac.nz).

Enrolment process

New students: Contact the Student Information Centre

Phone: 0800 AUT UNI (0800 288 864) or Email: courseinfo@aut.ac.nz

Returning students: Go online to AUTonline, <https://autonline.ac.nz>

- A. Check paper timetable by clicking on 'Timetable' option
- B. Then, complete '2012 re-enrolment form' by clicking on 'Forms' option
- C. Then, email us the completed form.

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Enrolment and paper information

Student enrolment enquiries:

0800 AUT UNI (0800 288 864)

courseinfo@aut.ac.nz

www.healthpostgraduate.aut.ac.nz

Student enquiries about this paper:

[Sandra Bassett (Paper Leader)

09 921 9999 ext 7123

Sandra.bassett@aut.ac.nz or postgradHES@aut.ac.nz

or debra.spinetto@aut.ac.nz

The information in this document is provided as a general guide only for students and is subject to alteration: 2012 Ver 1.