

Liverpool John Moores University

Title: RESEARCH METHODS, DESIGN & STATISTICS 1
Status: Definitive
Code: **7001HEAPSX** (113741)
Version Start Date: 01-08-2011

Owning School/Faculty: Natural Sciences & Psychology
Teaching School/Faculty: Natural Sciences & Psychology

| Team | Leader |
|-----------------|--------|
| Graham Sherwood | Y |

Academic Level: FHEQ7
Credit Value: 20.00
Total Delivered Hours: 200.00
Total Learning Hours: 200
Private Study: 0

Delivery Options

Course typically offered: Semester 1

| Component | Contact Hours |
|-----------|---------------|
| Lecture | 10.000 |
| Online | 160.000 |
| Seminar | 15.000 |
| Workshop | 15.000 |

Grading Basis: 40 %

Assessment Details

| Category | Short Description | Description | Weighting (%) | Exam Duration |
|------------|-------------------|-------------------|---------------|---------------|
| Reflection | AS1 | Essay | 20.0 | |
| Reflection | AS3 | Research Proposal | 70.0 | |
| Reflection | AS2 | Critique | 10.0 | |

Aims

Aims: This module aims to develop to a professional level, student's existing knowledge of, and skills in research methods, design and statistics. The emphasis of the module will be on: a) theoretical issues in research design from both qualitative and quantitative perspectives; b) professional ethics; c) critical evaluation of the literature; d) use of statistics in research design (e.g. power calculations to determine

appropriate sample size); e) developing skills involved in writing a research proposal.

Learning Outcomes

After completing the module the student should be able to:

- 1 Critically discuss the philosophical and practical perspectives that underpin competing research paradigms
- 2 Be familiar with the different methods of collecting / eliciting data and their implications for analysis and interpretation
- 3 Understand the legal and statutory responsibilities of the researcher and the ethical issues involved in carrying out research
- 4 Select and justify an appropriate research design that includes consideration of: a. Critical evaluation of relevant literature b. Ethical issues c. Measurement issues d. Analysis procedure e. Sampling considerations

Learning Outcomes of Assessments

The assessment item list is assessed via the learning outcomes listed:

| | | | | |
|----|---|---|---|---|
| CW | 1 | 2 | | |
| CW | 1 | 2 | 3 | 4 |
| CW | 2 | 4 | | |

Outline Syllabus

Philosophical assumptions of a variety of research methods
Qualitative and quantitative approaches to acquiring knowledge
Asking and answering research questions
How to critique the literature
Ethical, legal and professional standards Health Psychology
Systematic reviews
Meta analysis
Health services research methods
Design issues
Measurement issues
Sampling
Reliability and validity
Externals speakers covering consultant, clinical, policy and research specialties

Learning Activities

Traditional lectures will be utilized to provide a framework and context for the material covered in the module. Seminars will provide students with the opportunity to develop the necessary critiquing and design skills addressed in the module. Workshops will allow students to explore measurement and statistical issues.

Presentations from professionals working in the field will underscore the professional and practical issues involved in conducting and utilizing health psychology research.

References

| | |
|------------------------|--------------------------|
| Course Material | Book |
| Author | Christensen L |
| Publishing Year | 2004 |
| Title | Experimental Methodology |
| Subtitle | |
| Edition | 9th |
| Publisher | Allyn & Bacon |
| ISBN | |

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|------------------------|--|
| Course Material | Book |
| Author | Creswell JW |
| Publishing Year | 2002 |
| Title | Research Design: Qualitative, Quantitative and Mixed Method Approaches |
| Subtitle | |
| Edition | |
| Publisher | Sage |
| ISBN | |

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|------------------------|---|
| Course Material | Book |
| Author | Mards D & Yardley L |
| Publishing Year | 2003 |
| Title | Research Methods for Clinical and Health Psychology |
| Subtitle | |
| Edition | |
| Publisher | Sage |
| ISBN | |

Notes

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The Researcher Robert Woodworth, in the 1938 text, *Experimental Psychology*, invented the blueprint we follow in psychological research today. He stated that the defining feature of the experimental method was the manipulation of what he referred to as the independent variable (although he didn't invent the term) upon the measured dependent variable, which is then interpreted in a systematic fashion. He stated that the dependent variable ought to be an observable phenomena that can be measured in some Experimental Methodology. Please register online. Contact: Jennifer.Dari@eui.ei.Â Seminar Description and Objectives Laboratory and field experiments have become common tools in social science research. Following a long tradition in psychology, experimental subdisciplines have developed in economics, political science, cultural anthropology and sociology. Experimental methodology. Item Preview. remove-circle.Â Graphic Sexual Content. texts. Experimental methodology. by. Christensen, Larry B., 1941