

Liverpool John Moores University

Title: RESEARCH METHODS
Status: Definitive
Code: **5008SPOSCI** (114244)
Version Start Date: 01-08-2011

Owning School/Faculty: Sports Sciences
Teaching School/Faculty: Sports Sciences

Team	Leader
David Harriss	Y

Academic Level: FHEQ5
Credit Value: 24.00
Total Delivered Hours: 62.00
Total Learning Hours: 240
Private Study: 178

Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	48.000
Online	2.000
Seminar	6.000
Tutorial	6.000

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Essay	AS1	Essay - Evaluation of a research technique or tool	25.0	
Presentation	AS3	Research proposal: Written and oral presentation	50.0	
Test	AS2	Statistical analysis test	25.0	

Aims

This module aims to prepare students for their Major Project at Level 3. It aims to develop student skills in information retrieval and critical appraisal and create an understanding of the key issues and concepts underpinning different types of research. This will include a development of both quantitative and qualitative

research methods as well as advanced statistical procedures.

Learning Outcomes

After completing the module the student should be able to:

- 1 Critically evaluate the nature of descriptive, experimental and qualitative research.
- 2 Justify and apply key skills and methods that will underpin project work related to sport and exercise science.
- 3 Evaluate specific scientific literature to underpin project development.
- 4 Justify and apply advanced statistical procedures
- 5 Examine the ethical considerations in sport and exercise science research

Learning Outcomes of Assessments

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

essay	1	2	3		
presentation	1	2	3	4	5
test	4				

Outline Syllabus

The nature of scientific inquiry and the research process.

Problem identification.

Critical analysis of scientific material

Strategies of research: qualitative, descriptive, and experimental.

Validity and reliability of research methods.

Advanced statistical procedures (e.g. ANOVA, Multiple Regression, Effect sizes)

Ethics and informed consent.

The research proposal.

Learning Activities

Students receive lectures on all topics covered in the module. Where appropriate students will receive computer tutorials. Within the tutorial sessions students complete a worksheet. The worksheet focuses on using the features of using the statistical package that were relevant to the topic covered in the lecture. Students will also attend research project proposal seminars towards the end of the module as part of the development and assessment process.

References

Course Material	Book
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Author	Thomas, J.R. and Nelson, J.K.
Publishing Year	2005
Title	Research Methods in Physical Activity
Subtitle	
Edition	5th ed.
Publisher	Champaign, Illinois. Human Kinetics
ISBN	0-87322-291-1

Course Material	Book
Author	Allison, B: O'Sullivan, T: Owen, A
Publishing Year	1996
Title	Research Skills for Students
Subtitle	
Edition	
Publisher	Page
ISBN	0-83225-475-3

Course Material	Book
Author	Vincent, W.J.
Publishing Year	2005
Title	Statistics in Kinesiology
Subtitle	
Edition	3rd ed.
Publisher	Champaign, Illinois. Human Kinetics
ISBN	0-7360-0148-4

Course Material	Book
Author	Silverman, D.
Publishing Year	2000
Title	Doing Qualitative Research
Subtitle	
Edition	
Publisher	Sage
ISBN	0-79631-244-4

Course Material	Book
Author	Gratton, C. and Jones, I.
Publishing Year	2004
Title	Research Methods for Sports Studies
Subtitle	
Edition	
Publisher	Routledge
ISBN	0-415-26878-8

Notes

This module will provide practical and theoretical skills that will underpin the production of a research proposal and the completion of the research in the final year major project module. Content and assessments are directed to supporting students ability to select a topic, investigate, critically appraise, analyse data and present information. Other issues include a consideration of ethical topics. **STUDENTS SHOULD NOTE THAT THE RESEARCH PROPOSAL TOPIC MUST CORRESPOND TO THEIR DEGREE PROGRAMME AND (WHERE APPLICABLE)THE ANTICIPATED LEVEL 3 ROUTEWAY.**