Liverpool John Moores University

Title:	RESEARCH METHODS 1
Status:	Definitive
Code:	**4002SPOSCI** (114181)
Version Start Date:	01-08-2011

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

Team	emplid	Leader
James Morton		Y

Academic Level:	FHEQ4	**Credit Value:**	12.00	**Total Delivered Hours:**	37.00
Total Learning Hours:	120	**Private Study:**	83		

Delivery Options
Course typically offered: Semester 1

Component	Contact Hours
Lecture	15.000
Practical	20.000
Tutorial	1.000

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	AS1	Maths exam	30.0	1.00
Report	AS2	Scientific Writing Report	30.0	
Presentation	AS3	Presentation	30.0	
Test	AS4	Library Skills Assessment	10.0	

Aims

The module aims to introduce students to fundamental research methods relevant to the Sport and Exercise Sciences. This includes the basic concepts of research, the structure and forms of scientific communication and key mathematical and library skills. The module also introduces students to Personal Development Planning (PDP).

Learning Outcomes

After completing the module the student should be able to:

1. Apply and manipulate elementary mathematical functions and techniques to sport and exercise settings
2. Apply the principles of scientific communication and referencing to written work and presentations
3. Construct a search strategy to meet an information need appropriate to sport and exercise.

Learning Outcomes of Assessments

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

Maths Exam	1
Scientific Writing Report	2
Scientific Writing Report	2
Library Skills	3

Outline Syllabus

Basic study skills and Personal Development Planning.
Introduction to the nature of research
Introduction to the nature of scientific writing and presentation.
Subject software, word processing, Excel, PowerPoint
Library skills
Simple mathematical expressions

Elementary mathematical functions
simultaneous and quadratic equations.
Solving triangles
Application of the straight line to data analysis
Calculation of measures of central tendency and variability.

Learning Activities

Typically, students receive a lecture on the topic to be covered. Mathematics lectures are supported tutorials where students progress through workbook material to support their own learning. Students also receive computer tutorials on Microsoft Office applications and library databases.

References

Course Material	Book
Author	Graham, L and Sargent, D
Publishing Year	1983
Title	Countdown to Mathematics
Subtitle	
Edition	
Publisher	Open University Press
ISBN	

Course Material	Book
Author	Townend, M.S.
Publishing Year	1984
Title	Mathematics in Sport
Subtitle	
Edition	
Publisher	Ellis Horwood
ISBN	

Course Material	Book
Author	Booth, V.
Publishing Year	1993
Title	Communicating in Science
Subtitle	
Edition	
Publisher	Cambridge University Press
ISBN	

Course Material	Book
Author	Thomas, J.R. and Nelson, J.K.
Publishing Year	2005
Title	Research Methods in Physical Activity
Subtitle	
Edition	5th
Publisher	Human Kinetics
ISBN	0873222911

Course Material	Book
Author	Peck, J. and Coyle, M.
Publishing Year	1999
Title	The Student's Guide to Writing
Subtitle	
Edition	
Publisher	Basingstoke: Macmillan Press LTD
ISBN	0333727428

Course Material	Book
Author	Cottrell, S.
Publishing Year	2003
Title	The Study Skills Handbook
Subtitle	
Edition	2nd.
Publisher	Basingstoke: Palgrave Macmillan
ISBN	1403911355

Course Material	Book
Author	Cottrell, S.
Publishing Year	2003
Title	Skills for Success
Subtitle	The Personal Development Planning Handbook
Edition	
Publisher	Basingstoke: Palgrave Macmillan.
ISBN	1403911320

Notes

Students will be introduced to the basic principles of literature searches and scientific writing and presentation. Students will also engage in fundamental maths skills to support subsequent modules. The concept and skills of Personal Development Planning will also be covered.