

Requirements
This is prior learning (or a practical skill) that is mandatory before enrolment in this module is allowed.

No Co-requisite modules listed

Successful completion of year 1 or equivalent

ZRCH H2101: Research in Sport and Health

	-1	University			
Module Title:		Research in Sport and Health			
Language of Instruction:		English			
Credits: 5					
NFQ Level: 6					
Module Deli	vered In	4 programme(s)			
Teaching & Learning Strategies:		This module will be taught in two theory classes of one hour duration and two computer lab practicals of on hour each for 12 weeks. Teaching will be supported with examples which will be worked through in class. Delivery of the module will involve practical work that the student will complete in class.			
Module Aim:		To develop further the students' understanding of research methods, statistical concepts and techniques used in health and sports science.			
Learning Ou	ıtcomes				
On successf	ul completion o	f this module the learner should be able to:			
LO1	Describe and discuss the research process, especially as it relates to the broad field of health and sports studies, and the advantages and disadvantages of various study designs. Critically evaluate the nature of quantitative and qualitative research and identify appropriate methods of analysis.				
LO2	Identify different types of outcomes and be able to select the appropriate method of analysis for the type of outcome and study design. Explore a range and the implementation of a variety of data collection and data analysis tools.				
LO3	Analyse and interpret a broad range of health, sports and scientific data. Perform and interpret statistical tests using software				
Pre-requisit	e learning				
Module Recommendations This is prior learning (or a practical skill) that is recommended before enrolment in this module.					
No recommendations listed					
Incompatibl These are m		ave learning outcomes that are too similar to the learning outcomes of this module.			
No incompatible modules listed					
Co-requisite	e Modules				



ZRCH H2101: Research in Sport and Health

Module Content & Assessment

Indicative Content

Introduction to research

What is research? Understanding a research question. Types of research: Qualitative and Quantitative, mixed method designs; Introduction to qualitative research and techniques. Defining research variables. Formulation of a hypothesis. Introduction to research design. Understanding different types of study designs and be able to choose the relevant design for a given question.

Data analysis and presentation of information

Review of descriptive statistics; Data reduction, organisation and presentation; ; inferential statistics; exploring a data set; statistical significance; correlations; understanding p-values.

The normal distribution

Probability distributions. Assessing Normality, parametric and nonparametric methods. Applications of the normal distribution.

Analysis of a single sample

Testing hypotheses about a mean based on a single sample, confidence interval for a mean based on the Central Limit Theorem.

Analysis of two samples

Testing two means both in the case of paired and unpaired data.

Introduction to ANOVAs. The analysis of variance. Testing the equality of several means.

Review of inputting data and defining variable properties. Perform and interpret statistical tests using statistical software.

Assessment Breakdown	%
Continuous Assessment	15.00%
Practical	45.00%
End of Module Formal Examination	40.00%

Special Regulation

Students must achieve a minimum grade (35%) in both the practical/CA and final examination.

Continuous Assessment				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Examination	Statistics examination. Typically involves a maximum of two assessments which may be in the from of quizzes, assignments and written examinations.	1,2,3	15.00	n/a

No Project

Practical					
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date	
Practical/Skills Evaluation	Practical assessment.	2,3	45.00	Sem 1 End	

End of Module Formal Examination				
Assessment Type	Assessment Description	Outcome addressed	% of total	Assessment Date
Formal Exam	Written exam	1,2,3	40.00	End-of-Semester

SETU Carlow Campus reserves the right to alter the nature and timings of assessment



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Module Workload

Workload: Full Time				
Workload Type	Frequency	Average Weekly Learner Workload		
Lecture	12 Weeks per Stage	2.00		
Practicals	12 Weeks per Stage	2.00		
Estimated Learner Hours	15 Weeks per Stage	5.13		
	Total Hours	125.00		

Module Delivered In

Programme Code	Programme	Semester	Delivery
CW_SASPS_B	Bachelor of Science (Honours) in Sport and Exercise Science	3	Mandatory
CW_SASRA_B	Bachelor of Science (Honours) in Sports Rehabilitation and Athletic Therapy	3	Mandatory
CW_SASAC_B	Bachelor of Science (Honours) in Strength and Conditioning	3	Mandatory
CW_SAPHS_C	Higher Certificate in Science in Physiology and Health Science	3	Mandatory