

Liverpool John Moores University

Title: Epidemiology and Basic Statistics
Status: Definitive
Code: **7017PUBHEA** (125202)
Version Start Date: 01-08-2021

Owning School/Faculty: Public Health Institute
Teaching School/Faculty: Public Health Institute

Team	Leader
Vivian Hope	Y
Gordon Hay	
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Academic Level: FHEQ7 **Credit Value:** 20 **Total Delivered Hours:** 46
Total Learning Hours: 200 **Private Study:** 154

Delivery Options

Course typically offered: Semester 1

Component	Contact Hours
Lecture	22
Online	11
Workshop	11

Grading Basis: 50 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	Grp report	Study design group report 2500 words	40	
Exam	Stats Exam	2hr Statistics exam	60	2

Aims

This module will provide students with foundations of epidemiology, including basic concepts underpinning study design, how to pose an answerable question and to design a study to answer said question. It will also give students a thorough

exposure to basic statistical techniques used in quantitative analysis.

Learning Outcomes

After completing the module the student should be able to:

- 1 Explain the main basic concepts within epidemiology
- 2 Identify and critically analyse the main forms of epidemiology study designs
- 3 Develop an appropriate study to answer a specific research question
- 4 Identify and use the most appropriate statistical methods to test hypotheses

Learning Outcomes of Assessments

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

Study design group report	1	2	3
Statistics exam	1	4	

Outline Syllabus

Epidemiology component, primarily delivered through facilitated lectures and class-based practicals includes introduction to and history of epidemiology, key concepts of chance, bias and confounding, study designs and their application to evidence-based public health.

Basic statistics component, delivered through online learning and facilitated workshops, includes basics of data display, comparing data, measures of effect, paired data and standardisation.

Learning Activities

Learning will take place through formal and informal sessions involving lectures, seminars, group work, class discussions and directed reading. There will also be regular use of online discussion boards and self directed study supported by extensive online materials.

Notes

This module examines the basic principles and tools of epidemiology and basic statistics. These principles will be covered in the context of both communicable and non-communicable diseases and assessment of health inequalities.

Information for Stand Alone/CPD Students

Mode and Duration: This module is delivered through classroom and online methods. There are 22 hours of lectures, 11 hours of online VLE activity, and 11 hours of PC-workshop. The module runs for 12 weeks.

Benchmarks: The programme aligns to Public Health Training Curriculum (2010),

Public Health Skills and Knowledge Framework (2013) and Public Health Outcomes Framework (2016) subject benchmarks and to level 7 descriptors of QAA Framework for higher education qualifications in England, Wales and Northern Ireland.

The Programme is assessed and runs in line with the Academic Framework <https://www.ljmu.ac.uk/about-us/public-information/academic-quality-and-regulations/academic-framework>

The programme is monitored and evaluated through the CME, External Examining and via student feedback under Quality Measures

The CPD is offered as a standalone award and as a module within MSc Public Health, MSc Public Health (Addictions), MSc International Public Health and MSc Public Health Nutrition.

The approved intake month is September and the CPD programme code is 35990.

Admission criteria 'Any participant who does not have a first degree must satisfy the programme team of their ability to study at Master's level through presentation of a strong portfolio to demonstrate appropriate equivalent skills in the work place. For these applicants, individual assessments of their suitability for post graduate level study will be arranged and conducted by the programme team. The team may require evidence to be submitted as part of the assessment process e.g. a portfolio of written and other work; papers presented at conferences, publications; reports and research proposals

Student Support: as a student of Liverpool JMU you will be entitled to the same support as any other student in the university (Please refer to the Student Handbook for further information)