

MODULE SPECIFICATION

Academic Year (student	2020-21		
cohort covered by			
specification)			
Module Code	DEM205		
Module Title	Analysing Survey and Population Data		
Module Organiser(s)	Jim Todd		
Faculty	Faculty of Epidemiology & Population Health		
	London School of Hygiene and Tropical Medicine		
	http://www.lshtm.ac.uk/eph/		
FHEQ Level	Level 7		
Credit Value	CATS 15		
	ECTS 7.5		
HECoS Code	101408 : 100473		
Mode of Delivery	Distance Learning		
Mode of Study	Directed self-study, through online materials via the Virtual		
	Learning Environment		
Language of Study	English		
Pre-Requisites	Those wishing to study this module must have already		
	studied and passed DEM101 Introduction to Demographic		
	Analysis and completed EPM102 Statistics for		
	Epidemiology prior to studying this module. Students		
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	Epidemiology prior to studying this module. Students taking this module are not permitted to register and study both this module and EPM304, due to overlap of the content.		
Accreditation by	Epidemiology prior to studying this module. Students taking this module are not permitted to register and study		
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	access to Moodle and therefore the study materials, and work through the material until the start of the June examinations (although assessment submission deadlines which are earlier than this must be observed).	
Last Revised (e.g. year	April 2020	
changes approved)		

Programme(s) This module is linked to the following programme(s)	Status	
PGCert/PGDip/MSc Demography & Health (Distance	Elective	
Learning - University of London Worldwide)		

Module Aim and Intended Learning Outcomes

Overall aim of the module

The overall module aim is to:

 introduce students to the analysis of large, population-based datasets, including cross-sectional and retrospective household surveys, panel and cohort studies, censuses, sample registration schemes and surveillance data.

Module Intended Learning Outcomes

Upon successful completion of the module a student will be able to:

- 1. Handle large datasets on a computer, and manipulate such data into the form required for different types of analysis
- 2. Conduct appropriate analyses of cross-sectional and longitudinal demographic data
- 3. Design and apply an analysis strategy using a variety of analytical approaches
- 4. Create a well-annotated and organized Stata .do file which would allow other researchers to understand and replicate your statistical analysis
- 5. Clearly interpret results and appreciate the use of complex analyses for demographic data
- 6. Clearly present statistical findings in a report.



Indicative Syllabus

Session Content

The module is expected to cover the following topics:

- Session 1 Data sources and structures
- Session 2 Cross tabulations, SVY commands: weights and clustering
- Session 3: Bivariate analysis: logistic regression in cross-sectional data
- Session 4: Generating statistics for sub-groups
- Session 5: Monitoring status changes: repeated measures and missing data
- Session 6 Multivariate analysis: logistic regression with longitudinal data
- Session 7 Birth cohort lifetables: wide and long files
- Session 8 Demographic surveillance: merging files on personal ID
- Session 9 Adult period life tables: simple STS commands
- Session 10 Hazard models: testing validity of assumptions
- Session 11 Multivariate analysis for rates

Teaching and Learning

Notional Learning Hours

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Type of Learning Time	Number of Hours	Expressed as Percentage		
		(%)		
Directed self-study	80	53		
Self-directed learning	30	20		
Assessment, review and revision	40	27		
Total	150	100		

Teaching and Learning Strategy

Learning is self-directed against a detailed set of learning objectives using the materials provided. The key learning methods are:

- Reading and reflecting on the CAL (computer-assisted learning) materials which introduce, explain and apply the principles and methods covered in the module.
- Reading and reflecting on provided materials which support the learning in the CAL sessions. This may include making use of the LSHTM online library resources.
- Accessing academic support which is available from the module tutors through the web-based discussion forums and real-time sessions (using Collaborate Ultra) in which students are encouraged to participate.
- Completing formative assignment(s) and reflecting on written feedback from module tutors.



Assessment

Assessment Strategy

The Formative Assignment (FA) allows students to practice their use of the statistical methods and to get feedback on how to improve the techniques. The Assessed Assignment (AA) builds on the FA using data from a real situation, requiring the practical analysis and interpretation of the result. The exam requires understanding and interpretation of analytic methods, with students demonstrating the skills in these techniques learned from this module.

Summative Assessment

Assessment Type	Assessment Length (i.e. Word Count, Length of presentation in minutes)	Weighting (%)	Intended Module Learning Outcomes Tested
Assessed Assignment	One real life data set is provided with specific questions to guide the student through the analysis. The Assessed Assignment is design to take around 4 hours. This task can be spread over time providing it is submitted before the deadline	30	1, 2, 3, 4, 5, 6
Exam	2hrs 15mins	70	2, 3, 5

Resitting assessment

Resits will accord with the LSHTM's Resits Policy



Resources

Indicative reading list

There are no specific books or reading linked to this module. Students need to be familiar with different statistical packages and have competencies in all the basic analysis for demographic data. Papers and background materials for the different data and surveys is provided, which are related to the tasks undertaken.

Other resources

The following materials will be provided to students after registration for this module when the online learning site, Moodle, opens in October:

- A brief guide to studying the module.
- The main learning materials (sessions listed above, provided on Moodle).
- A reading list including details of both required and optional reading and links to selected papers.
- A list of useful websites.

The School's Moodle site allows students to access a range of materials, including those listed above; participate in module-specific discussion forums and Collaborate sessions, and access the LSHTM online library resources.

Teaching for Disabilities and Learning Differences

The module-specific site on Moodle provides students with access to the module learning materials and online reading list (containing both essential and recommended readings), and additional resources including supplementary exercises and optional lecture recordings (where appropriate). All materials posted up on Moodle areas, including computer-based sessions, have been made accessible where possible.

The LSHTM Moodle has been made accessible to the widest possible audience, using a VLE that allows for up to 300% zoom, permits navigation via keyboard and use of speech recognition software, and that allows listening through a screen reader.

For students with special needs, reasonable adjustments and support can be arranged – details and how to request support can be found on the University of London Worldwide website at

https://london.ac.uk/applications/how-it-works/inclusive-practice-access-arrangements