

Applications

Applicants should have a good command of English and a working knowledge of basic epidemiology and statistics, equivalent to a familiarity with the contents of introductory textbooks such as:

- Epidemiology in Medicine by C H Hennekens and J E Buring (Little Brown & Company, 1987)
- Essential Medical Statistics by B Kirkwood & J Sterne (2nd Edition, Blackwell Science Ltd, 2003)

Applicants should complete the application form and return it **with a CV** as soon as possible to:

Registry

London School of Hygiene & Tropical Medicine
Keppel Street
London WC1E 7HT
UNITED KINGDOM

Telephone: +44 (0)20 7299 4648

Fax: +44 (0)20 7323 0638

E-mail: shortcourses@lshtm.ac.uk

Website: www.lshtm.ac.uk

Application forms can be obtained from the above address. Because places are limited, applications will be selected on the basis of experience and suitability. Application by the end of May 2011 is advisable but later applications may be considered.. Those requiring further information about the course should contact one of the course organisers:

Dr Elizabeth Allen / Dr Helen Weiss / Dr Kate Walker
London School of Hygiene & Tropical Medicine
Keppel Street
London WC1E 7HT
United Kingdom

E-mail: elizabeth.allen@lshtm.ac.uk
helen.weiss@lshtm.ac.uk
kate.walker@lshtm.ac.uk

Other Courses

Full details of other courses at the School may be obtained from the Registry at the above address. These include the Intensive Course in Epidemiology & Medical Statistics short course, which assumes no previous epidemiological training.



LONDON SCHOOL of HYGIENE & TROPICAL MEDICINE



ADVANCED COURSE IN EPIDEMIOLOGICAL ANALYSIS

SHORT COURSE

5 - 16 September 2011

The Mission of the London School of Hygiene & Tropical Medicine is to contribute to the improvement of health world-wide through the pursuit of excellence in research, postgraduate teaching and advanced training in national and international public health and tropical medicine, and through informing policy and practice in these areas.

Advanced Course in Epidemiological Analysis

FURTHER INFORMATION: www.lshtm.ac.uk/prospectus/short

Advanced Course in Epidemiological Analysis

Statistical methodology for the design and analysis of epidemiological studies is a fast-changing field. Participants in this intensive two-week course will be given a thorough grounding both in classical methods of analysis and in the more advanced regression techniques. Participants will gain practical experience of data analysis using the computer package Stata. Various aspects of study design will also be considered. In 2011 the course will run from 5 September - 16 September.

Applicants should already have a working knowledge of basic epidemiology and statistics. The course is taught in Stata and we require students to have experience of statistical analysis using Stata (for example, linear regression). The course is designed primarily for those working, or planning to work, on epidemiological research projects. The emphasis will be on developing an understanding of the underlying assumptions and principles, on the practical application of the techniques and on the correct interpretation of the results, rather than on the mathematical derivation of the methods. The methods will be illustrated through studies of the epidemiology of both infectious and non-infectious diseases, conducted in both developed and in developing countries.

The course will be taught by members of the Department of Epidemiology & Population Health of the London School of Hygiene & Tropical Medicine. The School is well known as a leading international centre for epidemiological research. Staff have considerable experience in the design and analysis of epidemiological studies both in developed and in developing countries.

Course Content

The course makes use of the Stata package throughout. The topics to be covered will include:

- Measures of disease frequency and exposure effects
- Confounding and interaction
- Classical methods of analysis for cohort studies
- Classical methods of analysis for case-control studies
- Unconditional logistic regression
- Poisson regression for cohort studies
- Survival analysis and proportional hazards regression
- Practical issues in study design and analysis
- Conditional logistic regression for case-control studies
- Meta-analysis
- Clustering of data in epidemiological studies
- Strategies of analysis.

Teaching Methods and Course Materials

Teaching will be through lectures, discussions and practical sessions. There will be a strong emphasis on practical exercises involving participants in the use of computer software to analyse illustrative data-sets from a variety of epidemiological studies.

Comprehensive course notes will be given to participants at the beginning of the course. The following books will also be available for purchase during the course, if in print:

- *Statistical Models in Epidemiology* by D Clayton & M Hills
- *Survival Analysis: A Practical Approach* by D. Machin, Y. B. Cheung, M. Parmar
- *Essential Medical Statistics* by B Kirkwood & J Sterne
- *Statistical Methods in Cancer Research* by N E Breslow & N E Day
Volume 1: Analysis of case-control studies
Volume 2: The design and analysis of cohort studies

There will be no examination. A certificate of attendance will be issued to those completing the course. Approximately 60 participants will be accepted. Discounts for purchase of the Stata Software have been arranged for course participants.

Course Fee

The course fee is £2,100 The fee covers participation in the course, course materials, tea and coffee and the course dinner, but excludes travel costs, accommodation and other meals. The full course fee must be paid in advance by **8 July 2011**. If the course fee is to be paid on the candidate's behalf, please send a letter from the sponsors no later than **8 July 2011** to confirm this. Otherwise the applicant will be held responsible for payment.

Accommodation and Meals

The School cannot provide accommodation for participants. A list of hotels and other accommodation located in the vicinity of the School can be supplied on request to the Registry. Lunch is available from the School Refectory for between £3 and £5. There is a large choice of restaurants and coffee-shops in the vicinity of the School.