

Courses organized by MSc in Epidemiology & Biostatistics

Term I : *September – December 2016*

Term II : *January – March 2017*

Term III : *April – June 2017*

Course Code	Module	Unit	Term
BIOS5001	Introduction to Biostatistics	3	I
BIOS5005	Clinical Trials	1.5	I
EPID5001	Introduction to Epidemiology	3	I
BIOS5002	Linear Models	2	II
BIOS5004	ICH – GCP Standard of Clinical Research	1	II
BIOS5007	Pharmaceutical Statistics Computing in SAS	2	II
EPID5002	Epidemiological Study Designs	2	II
EPID6001	Appraisal of the Methods of Epidemiological Studies	2	II
BIOS5003	Categorical and Survival Data Analysis	3	III
BIOS6001	Topics in Linear Models	2	III
BIOS6002	Topics in Multivariate Analysis	1.5	III
BIOS6005	Pharmaceutical Bioinformatics	1	III
EPID5003	Analysis of Epidemiological Data	3	III
EPID6002	Selected Topics in Epidemiology	1.5	III
EPID6003	Nutritional Epidemiology	1	III
EPID6004	Practice in Systematic Review and Meta-analysis	1.5	III

Term I : September – December 2016

BIOS5001 Introduction to Biostatistics

(3 credits)

Course Coordinator: Prof. William Goggins

Course Description

This course introduces basic statistical concepts and methods. The emphasis of the course is on practical applications: choosing the correct method for particular datasets and correct interpretation of the analysis results. Examples from different disciplines of public health including chronic and infectious disease epidemiology, environmental health, and health policy will be used to illustrate the use of biostatistical methods in answering important public health questions.

Learning Outcomes/Objectives

1. Understand the importance of biostatistics in public health and medical research.
2. Develop a conceptual understanding of basic biostatistics,
3. Critically read and understand the statistical methodology and results sections of medical and public health research papers.
4. Be capable of carrying out basic statistical analyses using SPSS statistical software.

Course Schedule

Session	Date	Time	Venue
1	Sep 22, 2016 (Thu)	6:30 – 9:30 pm	School of Public Health Prince of Wales of Hospital And CUHK campus, Shatin, N.T., Hong Kong
2	Sep 29, 2016 (Thu)	6:30 – 9:30 pm	
3	Oct 6, 2016 (Thu)	6:30 – 9:30 pm	
4	Oct 13 or 14, 2016 (Thu/Fri)	6:30 – 9:30 pm	
5	Oct 20, 2016 (Thu)	6:30 – 9:30 pm	
6	Oct 27, 2016 (Thu)	6:30 – 9:30 pm	
7	Nov 3, 2016 (Thu)	6:30 – 9:30 pm	
8	Nov 10 or 11, 2016 (Thu/Fri)	6:30 – 9:30 pm	
9	Nov 17, 2016 (Thu)	6:30 – 9:30 pm	
10	Nov 24, 2016 (Thu)	6:30 – 9:30 pm	
11	Dec 1, 2016 (Thu)	6:30 – 9:30 pm	
12	Dec 8 or 9, 2016 (Thu/Fri)	6:30 – 9:30 pm	
13	Dec 15, 2016 (Thu)	6:30 – 9:30 pm	

Fee

Application Fee: \$100

Course Fee: \$13,200

Course Coordinator: Prof Marc Chong**Course Description**

The objective of this course is to provide students with a theoretical and practical knowledge of the issues involved in the design, conduct, analysis and interpretation of randomized clinical trials. We will discuss the basic principle of randomization and its importance, proper randomization and blinding procedures, choice of control arm, the importance of clear definition of endpoints, methods to calculate sample size, other statistical considerations and ethical issues in clinical trials. Attention will be given to the problems of conducting clinical trials in both single center and multi-center, and covers trials initiated by industry as well as trials in academic setting. Students will be trained to develop skills to properly design clinical trial, critically analyze and carry out research and to communicate effectively.

Learning Outcomes/Objectives

1. Understand the advantages and disadvantages of various designs in clinical research.
2. Understand the concepts of randomization in controlled clinical trials.
3. Develop a protocol for a clinical trial to address the research questions.
4. Have a general knowledge of the statistical issues commonly encountered in clinical trials.
5. Be aware of the ethical issues in clinical trials.
6. Have an appreciation of the Good Clinical Practice (GCP) requirements in the operation of clinical trials.
7. Learn some basic elements of data management and quality assurance in multi-center clinical trial set up.

Course Schedule

Session	Date	Time	Venue
1	Oct 3, 2016 (Mon)	6:30 – 9:30 pm	School of Public Health Prince of Wales of Hospital Shatin, N.T., Hong Kong
2	Oct 17, 2016 (Mon)	6:30 – 9:30 pm	
3	Oct 24, 2016 (Mon)	6:30 – 9:30 pm	
4	Oct 31, 2016 (Mon)	6:30 – 9:30 pm	
5	Nov 7, 2016 (Mon)	6:30 – 9:30 pm	
6	Nov 14, 2016 (Mon)	6:30 – 9:30 pm	
7	Nov 21, 2016 (Mon)	6:00 – 9:30 pm	

Fee

Application Fee: \$100

Course Fee: \$8,800

EPID5001 Introduction to Epidemiology

(3 credits)

Course Coordinator: Prof. Jean Kim

Course Description

This course will introduce basic epidemiology to students including introduction to epidemiology, applied health research methods, designing and conducting epidemiological studies (descriptive, case-control, cohort, systematic reviews).

Learning Outcomes/Objectives

Students are expected to

1. Appreciate the importance of epidemiology in clinical medicine as well as in public health
2. Adopt a population perspective for disease, disease control and health promotion
3. Understand basic epidemiological theories, concepts, and methods as applied to chronic diseases as well as infectious diseases
4. Learn the valid methods for estimating the frequency of disease, the effect of a cause or a treatment, and for comparing between groups and populations
5. Learn possible biases and their control methods in the estimation and comparisons
6. Apply epidemiological methods to address practical public health and clinical issues
7. Identify and appraise findings from epidemiological research for application

Course Schedule

Session	Date	Time	Venue
1	Sep 13, 2016 (Tue)	6:30 – 9:30 pm	School of Public Health Prince of Wales of Hospital Shatin, N.T., Hong Kong
2	Sep 27, 2016 (Tue)	6:30 – 9:30 pm	
3	Oct 4, 2016 (Tue)	6:30 – 9:30 pm	
4	Oct 11, 2016 (Tue)	6:30 – 9:30 pm	
5	Oct 18, 2016 (Tue)	6:30 – 9:30 pm	
6	Oct 25, 2016 (Tue)	6:30 – 9:30 pm	
7	Nov 1, 2016 (Tue)	6:00 – 9:30 pm	
8	Nov 8, 2016 (Tue)	6:30 – 9:30 pm	
9	Nov 15, 2016 (Tue)	6:30 – 9:30 pm	
10	Nov 22, 2016 (Tue)	6:30 – 9:30 pm	
11	Nov 29, 2016 (Tue)	6:30 – 9:30 pm	
12	Dec 13, 2016 (Tue)	6:30 – 9:30 pm	
13	Dec 20, 2016 (Tue)	6:30 – 9:00 pm	

Fee

Application Fee: \$100

Course Fee: \$13,200

Term II : January – March 2017

BIOS5002 Linear Models

(2 credits)

Course Coordinator: Prof. Marc Chong

Course Description

This course will provide a foundation for the practical analysis of data for which the primary outcome is a continuous variable. The course will begin with an introduction to ‘real-world’ data analysis with a motivating example looking at predictors of infant birthweight in Hong Kong. Methods for multivariate analysis of predictors of continuous outcomes including one-way and two-way ANOVA and multiple linear regression will then be discussed in detail with an emphasis on correct use of these methods in practice.

Learning Outcomes/Objectives

1. Understand and evaluate the use of linear models in the medical literature in an intelligent manner.
2. Develop skills in analyzing epidemiological data with continuous outcomes using linear models and to understand the basic principles that underlie research designs and statistical inference.
3. Perform fundamental statistical procedures for research projects involving continuous outcomes and interpret results.

Course Schedule

Session	Date	Time	Venue
1	Jan 12, 2017 (Thu)	6:30 – 9:30 pm	School of Public Health Prince of Wales of Hospital And CUHK campus, Shatin, N.T., Hong Kong
2	Jan 19, 2017 (Thu)	6:30 – 9:30 pm	
3	Jan 26, 2017 (Thu)	6:30 – 9:30 pm	
4	Feb 9, 2017 (Thu)	6:30 – 9:30 pm	
5	Feb 16, 2017 (Thu)	6:30 – 9:30 pm	
6	Feb 23, 2017 (Thu)	6:30 – 9:30 pm	
7	Mar 2, 2017 (Thu)	6:30 – 9:30 pm	
8	Mar 9, 2017 (Thu)	6:30 – 9:30 pm	
9	Mar 16, 2017 (Thu)	6:30 – 8:30 pm	

Fee

Application Fee: \$100

Course Fee: \$8,800

BIOS5004 ICH – GCP Standard of Clinical Research

(1 credit)

Course Coordinator: Prof. Benny Zee

Course Description

The objective of this course is to provide background of regulation of drugs, devices and biological development. We will apply the principles of ICH-Good Clinical Practice in clinical research and discuss the role and responsibilities of key parties described in the document. We will describe the requirements of essential documentation and adverse event reporting. Scenarios will be given to the students to strengthen their understanding of practical application of ICH-GCP to the clinical trial process.

Prerequisite (s) or Recommended Background

1. Familiar with Declaration of Helsinki
2. Clinical Research Personnel

Learning Outcomes/Objectives

1. Understand the background of international standards and technical requirement of ICH-GCP
2. Describe the principles and structures of ICH-GCP
3. Understand the role of responsibilities of key parties of conducting clinical research
4. Demonstrate Informed Consent Process at workplace
5. Apply relevant knowledge for the process of Adverse Event Reporting
6. Familiar with the Essential Documents required by ICH-GCP

Course Schedule

Session	Date	Time	Venue
1	Jan 9, 2017 (Mon)	6:30 – 9:30 pm	School of Public Health Prince of Wales of Hospital Shatin, N.T., Hong Kong
2	Jan 16, 2017 (Mon)	6:30 – 9:30 pm	
3	Jan 23, 2017 (Mon)	6:30 – 9:30 pm	
4	Feb 6, 2017 (Mon)	6:30 – 9:30 pm	
5	Feb 13, 2017 (Mon)	6:30 – 7:30 pm	

Fee

Application Fee: \$100

Course Fee: \$4,400

Course Coordinator: Prof. Marc Chong**Course Description**

The objective of this course is to familiarize students with the SAS software for pharmaceutical application. The course starts with the introduction of basic SAS skills followed by using SAS to draw tables, figures, and listings (TFL) and to analyze medical data. Practical scenarios will be given to students to understand the needs of SAS in pharmaceutical industry.

Prerequisite (s) or Recommended Background

1. Basic programming knowledge
2. Basic statistical skills (e.g. BIOS5001 Introduction to Biostatistics)

Learning Outcome

1. manipulate data;
2. draw the tables, figures, and listings (TFL);
3. conduct data analysis to solve medical problems by using SAS.

Students will also get familiarize to

1. the role of SAS programming in pharmaceutical industry
2. industry Regulations and Standards to SAS

Course Schedule

Session	Date	Time	Venue
1	Jan 13, 2017 (Fri)	6:30 – 9:30 pm	CUHK campus, Shatin, N.T., Hong Kong
2	Jan 20, 2017 (Fri)	6:30 – 9:30 pm	
3	Jan 27, 2017 (Fri)	6:30 – 9:30 pm	
4	Feb 3, 2017 (Fri)	6:30 – 9:30 pm	
5	Feb 10, 2017 (Fri)	6:30 – 9:30 pm	
6	Feb 17, 2017 (Fri)	6:30 – 9:30 pm	
7	Feb 24, 2017 (Fri)	6:30 – 9:30 pm	
8	Mar 3, 2017 (Fri)	6:30 – 9:30 pm	
9	Mar 17, 2017 (Fri)	6:30 – 8:30 pm	

Fee

Application Fee: \$100

Course Fee: \$8,800

EPID5002 Epidemiological Study Designs

(2 credits)

Course Coordinator: Dr. Johnson Lau

Course Description

This is a follow up of course Introduction to Epidemiology (EPID5001) to provide further concepts and application of epidemiology. Topics will include further concepts in epidemiological study designs and application of concepts to the planning and design of epidemiological studies.

Learning Outcomes/Objectives

Students are expected to

1. Learn more on study designs and their applications
2. Apply epidemiological concepts and techniques in the planning of epidemiologic studies
3. Apply epidemiological methods in public health programme planning and evaluation
4. Be aware of the various problems and biases in epidemiological studies

Course Schedule

Session	Date	Time	Venue
1	Jan 10, 2017 (Tue)	6:30 – 9:30 pm	School of Public Health Prince of Wales of Hospital Shatin, N.T., Hong Kong
2	Jan 17, 2017 (Tue)	6:30 – 9:30 pm	
3	Jan 24, 2017 (Tue)	6:30 – 9:30 pm	
4	Feb 7, 2017 (Tue)	6:30 – 9:30 pm	
5	Feb 14, 2017 (Tue)	6:30 – 9:30 pm	
6	Feb 21, 2017 (Tue)	6:30 – 8:30 pm	
7	Feb 28, 2017 (Tue)	6:30 – 9:30 pm	
8	Mar 7, 2017 (Tue)	6:30 – 9:30 pm	
9	Mar 14, 2017 (Tue)	6:30 – 9:00 pm	

Fee

Application Fee: \$100

Course Fee: \$8,800

EPID6001 Appraisal of the Methods of Epidemiological Studies

(2 credits)

Course Coordinator: Prof. Chen Mao

Course Description

The course will include a series of tutorials for appraising the methods of commonly used epidemiological study designs. In each tutorial, a published study of a specific design (e.g., randomized controlled trial) will be selected and presented and questions regarding the methods of the study will be asked. Students need to carefully read and discuss the questions beforehand and further discuss with the tutor and peers in the class.

Learning Outcomes/Objectives

Students are expected to

1. have a good idea of what a real epidemiological study is like;
2. know how the methods are implemented in real setting;
3. appreciate compromises in the methods in real studies;
4. know how to appraise the results, validity and generalizability of a study.

Course Schedule

Session	Date	Time	Venue
1	Jan 11, 2017 (Wed)	6:30 – 9:30 pm	School of Public Health Prince of Wales of Hospital Shatin, N.T., Hong Kong
2	Jan 18, 2017 (Wed)	6:30 – 9:30 pm	
3	Jan 25, 2017 (Wed)	6:30 – 9:30 pm	
4	Feb 8, 2017 (Wed)	6:30 – 9:30 pm	
5	Feb 15, 2017 (Wed)	6:30 – 8:00 pm	
6	Feb 22, 2017 (Wed)	6:30 – 9:30 pm	
7	Mar 1, 2017 (Wed)	6:30 – 9:30 pm	
8	Mar 8, 2017 (Wed)	6:30 – 9:30 pm	

Fee

Application Fee: \$100

Course Fee: \$8,800

Term III : April – June 2017

BIOS5003 Categorical and Survival Data Analysis

(3 credits)

Course Coordinator: Prof Maggie Wang

Course Description

This course will provide a foundation for the practical analyses of categorical and time to event (survival) data. The course will cover the use of logistic regression models for use with binary outcomes and Cox proportional hazards regression models for time to event outcomes. Practical application of these models will be emphasized and model building and the checking of model assumptions will be covered in detail.

Learning Outcomes/Objectives

1. Understand the concepts, assumptions and logic involved in statistical methods commonly used in medical research including categorical data analysis and time-to-event data analysis.
2. Develop appropriate statistical models for the data and correctly interpret the results.

Course Schedule

Session	Date	Time	Venue
1	Mar 23, 2017 (Thu)	6:30 – 9:30 pm	School of Public Health Prince of Wales of Hospital And CUHK campus, Shatin, N.T., Hong Kong
2	Mar 30, 2017 (Thu)	6:30 – 9:30 pm	
3	Apr 6, 2017 (Thu)	6:30 – 9:30 pm	
4	Apr 13, 2017 (Thu)	6:30 – 9:30 pm	
5	Apr 20, 2017 (Thu)	6:30 – 9:30 pm	
6	Apr 27, 2017 (Thu)	6:30 – 9:30 pm	
7	May 4, 2017 (Thu)	6:30 – 9:30 pm	
8	May 11, 2017 (Thu)	6:30 – 9:30 pm	
9	May 18, 2017 (Thu)	6:30 – 9:30 pm	
10	May 25, 2017 (Thu)	6:30 – 9:30 pm	
11	Jun 1, 2017 (Thu)	6:30 – 9:30 pm	
12	Jun 8, 2017 (Thu)	6:30 – 9:30 pm	
13	Jun 15, 2017 (Thu)	6:30 – 8:30 pm	

Fee

Application Fee: \$100

Course Fee: \$13,200

BIOS6001 Topics in Linear Models

(2 credits)

Course Coordinator: Prof Benny Zee

Course Description

This course will cover advanced statistical modelling techniques for use with complex datasets. Topics will include Poisson and Negative Binomial regression for count outcomes, repeated measures ANOVA, GEE models and multilevel models for longitudinal data and multilevel models for clustered data.

Learning Outcomes/Objectives

Upon completion of this course students will understand the reasons that more complex statistical models need to be used for datasets for which the assumptions of linear or logistic regression are not valid, such as datasets with ordinal or count outcomes, longitudinal or clustered data, and data with non-linear associations between variables. They will understand which models should be used for each of these situations, how to fit and interpret these models, and how to check the assumptions of these models.

Course Schedule

Session	Date	Time	Venue
1	Apr 10, 2017 (Mon)	6:30 – 9:30 pm	School of Public Health Prince of Wales of Hospital Shatin, N.T., Hong Kong
2	Apr 24, 2017 (Mon)	6:30 – 9:30 pm	
3	May 8, 2017 (Mon)	6:30 – 9:30 pm	
4	May 15, 2017 (Mon)	6:30 – 9:30 pm	
5	May 22, 2017 (Mon)	6:30 – 9:30 pm	
6	May 29, 2017 (Mon)	6:30 – 9:30 pm	
7	Jun 5, 2017 (Mon)	6:30 – 9:30 pm	
8	Jun 12, 2017 (Mon)	6:30 – 8:30 pm	

Fee

Application Fee: \$100

Course Fee: \$8,800

BIOS6002 Topics in Multivariate Analysis

(1.5 credits)

Course Coordinator: Dr. Billy Chang

Course Description

This course will cover methods importance in the analysis of data collected from questionnaires. Both exploratory and confirmatory factor analysis (under the framework of Structural Equation Models) will be discussed.

Learning Outcomes/Objectives

After taking this course the students will understand the uses of exploratory factor analysis, discriminant analysis and SEM methods including confirmatory factor analysis and path analysis in the exploration and hypothesis testing for data collected from questionnaires.

Course Schedule

Session	Date	Time	Venue
1	Feb 27, 2017 (Mon)	6:30 – 9:30 pm	School of Public Health Prince of Wales of Hospital Shatin, N.T., Hong Kong
2	Mar 6, 2017 (Mon)	6:30 – 9:30 pm	
3	Mar 13, 2017 (Mon)	6:30 – 9:30 pm	
4	Mar 20, 2017 (Mon)	6:30 – 9:30 pm	
5	Mar 27, 2017 (Mon)	6:30 – 9:30 pm	
6	Apr 3, 2017 (Mon)	6:30 – 9:30 pm	

Fee

Application Fee: \$100

Course Fee: \$6,600

Course Coordinator: Prof. Maggie Wang**Course Description**

The course will provide a broad overview and introduction to bioinformatics and its applications in pharmaceutical industry. Topics will cover (1) basic bioinformatics methods: hierarchical clustering, lasso, random forest, LDA, PCA, boosting, bootstrapping, etc. (2) data sequencing and management: microarray data, GWAS data, the raw data treatment and analysis method, batch effect and normalization, parallel programming in R; (3) phylogenetic analysis; (4) Chemobioinformatics modeling, 3D structure, chemical - protein relation leading to drug discovery.

Prerequisite

1. BIOS5001 Introduction to Biostatistics

Recommended Background

1. BIOS5002 Linear Models
2. BIOS5003 Categorical and Survival Data Analysis

Learning Outcome

1. Understand the basic bioinformatics methods
2. Know how to use the software of conducting bioinformatics analysis
3. Know when to apply the methods under different scenarios and conduct exploratory research
4. Interpret data analysis output, and use graphical representations

Course Schedule

Session	Date	Time	Venue
1	May 5, 2017 (Fri)	6:30 – 9:30 pm	School of Public Health Prince of Wales of Hospital Shatin, N.T., Hong Kong
2	May 12, 2017 (Fri)	6:30 – 9:00 pm	
3	May 19, 2017 (Fri)	6:30 – 9:00 pm	
4	May 26, 2017 (Fri)	6:30 – 9:30 pm	
5	Jun 2, 2017 (Fri)	6:30 – 9:30 pm	

Fee

Application Fee: \$100

Course Fee: \$4,400

EPID5003 Analysis of Epidemiological Data

(3 credits)

Course Coordinator: Prof. Diane Threapleton

Course Description

This module prepares students on collection, management, analysis and interpretation of epidemiological data with consideration for analysis of special data such as age-period-cohort effect.

Learning Outcomes/Objectives

Students are expected to:

1. Learn and apply epidemiology concepts and techniques in the collection, measurements, , analysis and interpretation of epidemiologic data
2. Design usable data collection instruments for surveys
3. Analyze and interpret common epidemiological data

Course Schedule

Session	Date	Time	Venue
1	Mar 21, 2017 (Tue)	6:30 – 9:30 pm	School of Public Health Prince of Wales of Hospital Shatin, N.T., Hong Kong
2	Mar 28, 2017 (Tue)	6:30 – 9:30 pm	
3	Apr 11, 2017 (Tue)	6:30 – 9:30 pm	
4	Apr 18, 2017 (Tue)	6:30 – 9:30 pm	
5	Apr 25, 2017 (Tue)	6:30 – 9:30 pm	
6	May 2, 2017 (Tue)	6:30 – 9:30 pm	
7	May 9, 2017 (Tue)	6:30 – 9:30 pm	
8	May 16, 2017 (Tue)	6:30 – 9:30 pm	
9	May 23, 2017 (Tue)	6:30 – 9:30 pm	
10	Jun 6, 2017 (Tue)	6:30 – 9:30 pm	
11	Jun 13, 2017 (Tue)	6:30 – 9:30 pm	
12	Jun 20, 2017 (Tue)	6:30 – 9:30 pm	

Fee

Application Fee: \$100

Course Fee: \$13,200

EPID6002 Selected Topics in Epidemiology

(1.5 credits)

Course Coordinator: Prof. Jean Kim

Course Description

The course involves a series of guest lecture seminars in which methodological aspects of various areas of epidemiological research are discussed and elaborated.

Learning Outcomes/Objectives

Students will become familiar with the methodological and substantive issues of conducting epidemiological investigations in various subject areas. The course is structured as a series of seminars with interactive discussion. Each session will summarize the major methodological considerations of epidemiological research on the given topic so that students can critically examine the literature.

Students will be asked to read scientific papers that illustrate concepts in class. Students should be able to understand the major data collection and data analysis issues of the various types of epidemiology presented.

Course Schedule

Session	Date	Time	Venue
1	Mar 22, 2017 (Wed)	6:30 – 9:30 pm	School of Public Health Prince of Wales of Hospital Shatin, N.T., Hong Kong
2	Mar 29, 2017 (Wed)	6:30 – 9:30 pm	
3	Apr 5, 2017 (Wed)	6:30 – 9:30 pm	
4	Apr 12, 2017 (Wed)	6:30 – 9:30 pm	
5	Apr 19, 2017 (Wed)	6:30 – 9:30 pm	
6	Apr 26, 2017 (Wed)	6:30 – 9:30 pm	

Fee

Application Fee: \$100

Course Fee: \$6,600

Course Description

In this course, you will learn about the methods used to assess dietary intakes and how to overcome limitations in assessing such a complex 'exposure'. Nutrient intakes and dietary patterns in different population groups will be illustrated and key diet-disease associations will be presented. Finally, some of the challenges in interpreting nutritional epidemiology evidence and practical issues in communicating findings will be covered.

Learning Outcomes/Objectives

Student should be able to:

1. understand the different methods that are used to examine dietary intake
2. describe key limitations in estimating dietary intake and how these may be minimised in practice
3. explain current evidence relating to how dietary choices impact obesity, CVD and malnutrition
4. apply knowledge to design either an observational assessment of diet or a dietary intervention study

Course Schedule

Session	Date	Time	Venue
1	May 17, 2017 (Wed)	6:30 – 9:30 pm	School of Public Health Prince of Wales of Hospital Shatin, N.T., Hong Kong
2	May 24, 2017 (Wed)	6:30 – 9:30 pm	
3	May 31, 2017 (Wed)	6:30 – 9:30 pm	
4	Jun 7, 2017 (Wed)	6:30 – 9:30 pm	

Fee

Application Fee: \$100

Course Fee: \$4,400

Course Coordinator: Prof. Zuyao Yang**Course Description**

This course is an advanced module for students who are interested in conducting systematic review and meta-analysis. It emphasizes on practical knowledge and skills needed for doing this kind of research: performing exhaustive literature search to identify relevant studies, extracting data from eligible studies, assessing risk of bias, synthesizing data, including meta-analysis, presenting results graphically and tabularly, investigating heterogeneity and potential biases, and publishing manuscripts in peer-reviewed journals. Tutorial materials will be distributed to students for their in-class exercises. Students will be enabled to master the essential skills for doing systematic review and meta-analysis by the end of this module.

Learning Outcomes/Objectives

By the end of this module, students are expected to be able to:

1. formulate a structured research question and develop search strategies according to the question
2. retrieve relevant studies by exhaustive literature search and select eligible studies from them
3. extract data from eligible studies
4. assess risk of bias for randomized controlled trials using appropriate tools
5. synthesize data from eligible studies, including narrative summary and meta-analysis
6. do other related analyses, such as the investigation of publication bias
7. prepare systematic review manuscripts for publication according to relevant guidelines

Course Schedule

Session	Date	Time	Venue
1	Mar 10, 2017 (Fri)	6:30 – 9:30 pm	School of Public Health Prince of Wales of Hospital Shatin, N.T., Hong Kong
2	Mar 24, 2017 (Fri)	6:30 – 9:30 pm	
3	Mar 31, 2017 (Fri)	6:30 – 9:30 pm	
4	Apr 7, 2017 (Fri)	6:30 – 9:30 pm	
5	Apr 21, 2017 (Fri)	6:30 – 9:30 pm	
6	Apr 28, 2017 (Fri)	6:30 – 9:30 pm	

Fee

Application Fee: \$100

Course Fee: \$6,600



Short Courses in Public Health (2016-2017) APPLICATION FORM



Please complete this form in **BLOCK** letters and return before at least 2 weeks before the programme commence.

Title: Prof. ☐ Dr. ☐ Mr. ☐ Ms ☐

Sex: M ☐ F ☐

Name : (In English) (In Chinese)
Surname Given name

HK Identify Card No. (Passport No Country if you do not have a HK ID Card)

Address:

Tel: Mobile Fax: Email address:

Academic Qualifications

Institution & Location	Date of Attendance (From / To)	Major/Minor	Diploma/Degree
.....
.....

Professional Qualifications

Professional Qualification	Awarding Institution / Country	Date of Award
.....
.....

Working Experience (Please list your current job first)

Institution and Location	Position	Date From / To
.....
.....

Application for: please select as appropriate:

Course Code	Module	Credit Unit	Fee	Please '√'
Term I September – December 2016				
BIOS5001	Introduction to Biostatistics	3	HK\$13,200	
BIOS5005	Clinical Trials	1.5	HK\$6,600	
EPID5001	Introduction to Epidemiology	3	HK\$13,200	
Term II January – March 2017				
BIOS5002	Linear Models	2	HK\$8,800	
BIOS5004	ICH – GCP Standard of Clinical Research	1	HK\$4,400	
BIOS5007	Pharmaceutical Statistics Computing in SAS	2	HK\$8,800	
EPID5002	Epidemiological Study Designs	2	HK\$8,800	
EPID6001	Appraisal of the Methods of Epidemiological Studies	2	HK\$8,800	
Term III April – June 2017				
BIOS5003	Categorical and Survival Data Analysis	3	HK\$13,200	
BIOS6001	Topics in Linear Models	2	HK\$8,800	
BIOS6002	Topics in Multivariate Analysis	1.5	HK\$6,600	
BIOS6005	Pharmaceutical Bioinformatics	1	HK\$4,400	
EPID5003	Analysis of Epidemiological Data	3	HK\$13,200	
EPID6002	Selected Topics in Epidemiology	1.5	HK\$6,600	
EPID6003	Nutritional Epidemiology	1	HK\$4,400	
EPID6004	Practice in Systematic Review and Meta-analysis	1.5	HK\$6,600	

Payment: Application Fee HK\$100.00 (Cheque no.)

Remarks:

- No refund will be made after receipt of payment.
- Acceptance of application is subject to availability.

I declare that the information given in support of this application is accurate and complete, and understand that any misrepresentation will result in the disqualification of my application for admission.

Signature

Date

Notes for Applicants

1. Submission of Application Form

The completed application and supporting documents should be sent to the following address with **an application fee of HK\$100.00** (A crossed personal cheque or bankdraft made payable to: “The Chinese University of Hong Kong”).

Course Administrator,
MSc in Epidemiology & Biostatistics Programme
2/F, JC School of Public Health,
Prince of Wales Hospital,
Shatin, N.T., HONG KONG.

2. Documents to be submitted

Photocopy of identity card and certificates of academic/ professional qualifications (e.g. bachelor degree or other qualifications). Original documents must NOT be sent.

3. Application Deadline

This application form should be completed and returned **at least TWO weeks before** the programme commences.

4. Selection Process

Applicants will be notified of the application result when the Programme concerned has made its decision.

5. Tuition Fee Payment

Students are required to pay full tuition fee before the course commences. The tuition fee, once paid, is **non-refundable or non-transferable**.

Payment(s) can be made by a crossed cheque or bankdraft, payable to “The Chinese University of Hong Kong”

Application Fee:	HK\$100.00
Course Fee:	In modular basis

Information and Enquiries

Address :

Room 202, 2/F, JC School of Public Health,
Prince of Wales Hospital, Shatin, N.T., Hong Kong

Ms. Stephanie Wan / Mr. Johnny Zhou
Tel: (852) 2252 8418 / 2252 8754
Fax: (852) 2145 7489
Email: epibiostat@cuhk.edu.hk

The Programme reserves the right to cancel the course if the number of registered students is insufficient or for other unanticipated reasons.