

## **AY2018/2019 Semester 1**

### **SPH5002 Public Health Research Methods**

*Modular Credits: 8*

This module provides students with the foundational knowledge of epidemiology and biostatistics, and introduces students to the key principles of qualitative research methods. Students will learn how to quantify the burden of disease in populations, identify potential risk factors, develop and test hypotheses. Key considerations for the design of observational, interventional, and screening studies, and basic skills related to the analyses and interpretation of data from such studies will be emphasised. Students will gain an appreciation of the complementary nature of qualitative and quantitative research methodologies in answering public health questions.

### **SPH5003 Health Behaviour and Communication**

*Modular Credits: 4*

This module applies concepts and methods in social and behavioural sciences to evaluate and inform development of health promotion policies, programmes and services

It provides students with the principles and skills to address the social, psychological and environmental factors influencing behaviour and behaviour change. Upon completion of this module, students will be able to apply commonly used behavioural theories and models to change and evaluate behaviour at the individual, group and community level for the development of effective public health promotion interventions.

### **SPH5004 Introduction to Health Policy and Policy Analysis**

*Modular Credits: 4*

The module provides students with an overview of health systems and the origin, development, and the various components that make up an effective health policy. Theoretical frameworks and concepts will be introduced to help students understand and analyse health policies and the challenges faced by stakeholders in the health system. Through a mix of lectures, in-class group discussion, and group work with case studies, students will describe, analyse and develop health policy solutions for common public health problems faced by Singapore and regional countries.

### **SPH5204 Nutrition and Health – Fundamentals and Applications**

*Modular Credits: 4*

This module introduces the concepts and principles underlying nutrition in relation to health and diseases, so as to better understand and address population nutrition challenges. Content areas include an overview of nutrition as a major determinant of health and disease; methods to assess nutritional status; maternal and child health through the lens of a life course perspective; nutrition during ageing and evaluation of effective nutritional interventions. This class will include discussion of nutrition policies and strategies, multi-sectoral approaches and the importance of public- partnerships aimed at preventing chronic diseases.

There will be a strong emphasis on gaining practical skills in dietary assessments, critical appraisal of scientific literature and media articles relating to diet and nutrition and communication of nutritional science to the public. The teaching approach involves class interaction and provides opportunities for self-reflection.

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### **SPH5304 Occupational Ergonomics**

*Modular Credits: 4*

This module covers both ergonomics/human factors and basic work physiology. It emphasises the practical aspects of how to fit the worker to the job and how to fit the job to the worker and the need for a multifactorial approach to the study of ergonomics/human factors.

The basic principles of human, work and environmental factors related to occupational disease and work related illness will be discussed.

Common issues related to work and stress, work and performance will also be covered in the lectures.

Work place assessments will also be stressed to evaluate various ergonomic factors in the implementation of a workplace ergonomics programme and the investigation of work-related accidents.

In addition to lectures and tutorials, case studies from industry will also be discussed.

### **SPH5306 Environmental Health**

*Modular Credits: 4*

Rapid urbanisation has resulted in an increasingly built environment with new dynamic interactions between the natural (biosphere) and man-made (technosphere). This in turn leads to emerging health concerns peculiar to an urbanised built environment. Events in the natural environment continue to be of public health importance, especially climate change as evidenced by extreme weather events. In addition, the workplace environment is of special concern as most adults spend the greater proportion of their waking hours there.

This module will introduce students to important issues in environmental and occupational health and equip them with basic skills in identifying and mitigating environmental risk factors, both in the general and workplace environment.

### **SPH5406 Contemporary Global Health Issues**

*Modular Credits: 4*

This module offers students a panoramic overview of the evolving global health landscape in today's globalised society which is characterised by unprecedented inter-connectedness. Public health problems and consequences are now easily trans-national, if not global.

We will focus on key cross-cutting thematic areas linking Health with the Sustainable Development Goals (SDGs)

### **SPH5408 Public Health and Ageing**

*Modular Credits: 4*

In this module, an overview of the ageing population and its increasing relevance for public health planning and policy, both in Singapore and internationally. Major topics include demography of ageing, normal (physiological and biological) and abnormal (physical and mental) ageing, prevention of ageing-related diseases and compression of morbidity, health and social services and policies for older persons, and medico-legal and ethical issues of care for the older persons. Students will learn how to apply their knowledge to critically appraise health and social programmes and policies for older persons and apply medico-legal and ethical principles in the care for older persons.

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**Cross-faculty graduate students** who intend to read the MPH modules are to take note of the following:

- a) Applications should be submitted by **1 August 2018, Wednesday, 5.30pm**
- b) Submit your cross faculty module registration form through your home faculty (the form can be obtained from your home faculty's administrator).

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- c) Each student is allowed to read for credit a maximum of 4 MCs of MPH module per semester; with the exception of YLLSOM students on relevant graduate programmes; and subject to home faculty's policies.
  - d) Please state if you have met the pre-requisites (if any)
  - e) Please submit your CV together with your application.
  - f) All applications are subject to approval and the programme does not guarantee a place in the module requested for.
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The programme reserves the right not to offer a module if the number of students taking it for credit is fewer than 10