

Course Title/Code:	Introduction to Public Health Genomics (MMPH6173)
Department:	School of Public Health
Objective:	<ol style="list-style-type: none"> 1. To introduce the emerging interdisciplinary subject area of public health genomics 2. To explain the inter-relationship between disease, genetics, and the environment, so as to foster an understanding on the current and potential impact of genomic science and technology on the practice of clinical medicine and public health practice 3. To highlight potential ethical, legal and social Implications (ELSI) of genomic science and technology and the various policy approach for its control and regulation
Content:	<p>Topics include:</p> <p>An overview of Public Health Genomics</p> <p>Genetic testing – concepts a Genetics and health services in HK nd development</p> <p>Genetics and health services in HK</p> <p>Genetic testing – problems and control</p> <p>Statistical & epidemiological techniques for study of genetics</p> <p>Psycho-social aspect of genetic screening</p> <p>Practice of Cancer genetics</p> <p>Ethical, legal, and policy implications of genetic</p> <p>Future directions and challenges of public health genomics</p> <p>Presentation of group projects</p>
Learning Outcomes:	<ol style="list-style-type: none"> 1. Describe the concept of public health genomics 2. Demonstrate an understanding on the inter-relationship between disease, genetics, and the environment on specific public health problems 3. Recognize the importance and potential implication of genomic development on clinical and public health practice 4. Identify potential ethical, legal and social Implications (ELSI) of genomic advancement and technology when applied to different specific public health problems 5. Describe various policy approach for the control and regulation of genomic related health care practice
Prerequisite:	None
Duration:	3 hours/week; 30 contact hours
Continuous assessment/ Examination ratio:	<p>Written tasks: 50%</p> <p>Participation: 30%</p> <p>Group presentation: 20%</p>
Remarks:	Also offered to RPg from other Faculties at HKU

