Course Title/Code:	Infectious Disease Epidemiology (MMPH6167)
Department:	School of Public Health
<b>Objective:</b>	<ol> <li>To introduce the basic concepts of infectious disease epidemiology</li> <li>To describe the interplay among pathogens, hosts and environment in infectious disease epidemiology</li> <li>To explain methods for assessing the transmissibility and severity of infectious diseases</li> <li>To compare modern surveillance control measures for infectious diseases</li> <li>To analyze and interpret infectious disease data</li> </ol>
Content: Learning outcomes:	<ul> <li>Course topics include: <ul> <li>Introduction</li> <li>Natural history and severity</li> <li>Transmissibility</li> <li>Immunity and vaccination</li> <li>Surveillance</li> <li>Study design</li> <li>Models</li> <li>Seroepidemiology</li> <li>Molecular epidemiology</li> <li>Sexually transmitted diseases</li> </ul> </li> <li>By the end of the course, students should be able to: <ul> <li>Describe the basic principles and frameworks of infectious disease epidemiology.</li> </ul> </li> <li>Characterize the natural history and transmission of infectious disease modeling.</li> <li>Define severity of an infectious disease and identify difficulties associated with severity estimation.</li> <li>Explain herd immunity and the population-level effect of vaccination.</li> <li>Describe the basic principles of infectious disease modeling.</li> </ul>
Duration:	3 hours/week; 30 contact hours
Continuous assessment Examination ratio:	Coursework 70%; Examination 30%
Examination method/ duration:	Written examination / 2 hours
Remarks:	Also offered to RPg from other Faculties at HKU. Approval from the School must be sought prior to enrollment.