

MASTER OF PUBLIC HEALTH

SPECIALISATION: EPIDEMIOLOGY AND QUANTITATIVE METHODS
COMPETENCIES
<p>(a) Demonstrate a well-developed understanding of the role of epidemiological methodologies in public health research</p> <p>(b) Be able to critically evaluate epidemiological investigations including the research question, study design, statistical analyses, results and interpretation of observational and experimental research studies relevant to public health research and practice.</p> <p>(c) Formulate meaningful public health research questions and develop an appropriate study protocol for grant applications.</p> <p>(d) Be familiar with methods of data collection and management of data in epidemiologic studies.</p> <p>(e) Apply appropriate biostatistics methods, using software packages (e.g., STATA or R) to perform data analysis with interpretation and application of findings.</p>
SPECIALISATION CORE COURSES (12 UNITS)
<ol style="list-style-type: none"> 1. SPH5101 Advanced Quantitative Methods I OR SPH6002 Advanced Quantitative Methods II 2. SPH5103 Collection, Management and Analysis of Quantitative Data 3. SPH5203 Advanced Epidemiology I OR SPH6001 Advanced Epidemiology II
SPECIALISATION ELECTIVE COURSES (8 UNITS)
<ul style="list-style-type: none"> • SPH5102 Design, Conduct and Analysis of Clinical Trials • SPH5104 Analytics for Better Health • SPH5201 Control of Communicable Diseases • SPH5202 Control of Non-Communicable Diseases • SPH5205 Urban Outbreak Management • SPH6004 Advanced Statistical Learning • SPH5405 Introduction to Health Services Research* • SPH5407 Programme Evaluation* • SPH5408 Public Health and Aging*

* Not applicable to students admitted in AY2023/2024 and onwards

MASTER OF PUBLIC HEALTH**SPH5005 PRACTICUM REQUIREMENTS**

The SPH5005 Practicum should be on an epidemiological study focused on an exposure, condition or disease of interest to students. Students could conduct primary research; collecting data to answer their research question or utilise secondary data (faculty datasets, school cohort study datasets, public data) to perform data-analysis and interpretation. Other projects could include a systematic review, programme evaluation, or a disease modelling study.