

# University of Pretoria Yearbook 2022

## MPH (10256502)

**Department** School of Health Systems and Public Health

**Minimum duration of study** 2 years

**Total credits** 190

**NQF level** 09

### Programme information

The curriculum will include four compulsory modules and a range of elective modules. These modules will have a blended learning approach, combining online, distance based learning and face-to-face teaching modalities, depending on the module.

The MPH programme comprises the following three components:

- Core modules (30 credits)
- Elective modules (50 credits)
- Mini-dissertation (100 credits)

### Admission requirements

1. PGDip (Public Health) or equivalent with an average of at least 60% **or** equivalent learning (study for non-degree purposes or equivalent coursework at another institution) provided that the applicant is in possession of a: (i) Relevant honours degree **or** (ii) relevant four-year bachelor's degree and at least two years' applicable practical (work) experience **or** (iii) relevant three-year bachelor's degree and at least five years' applicable practical (work) experience

### Additional requirements

#### Registration as a special student in the Faculty in order to pass a status examination

- i. Candidates will be required to first register as a special student in the Faculty, in order to pass in a status examination, in the following instances:
  - A three-year bachelor's degree with less than five years' applicable practical (work) experience; or
  - A four-year bachelor's degree with less than two years' applicable practical (work) experience; or
  - Any applicant in possession of an approved bachelor's degree, who the School's Selection Committee deems fit to register as a special student.

#### NB:

In accordance with the criteria of the Senate of the University, the applications for admission of all such candidates must, apart from any Faculty requirements, also be submitted to the University Senate for approval. All candidates accepted for postgraduate study (MPH or the Postgraduate Diplomas) must be in possession of a

National Senior Certificate with admission for degree purposes.

ii. **Pass requirements for the status examination**

- At least 60% must be obtained in the status examination.
- The status examination will be written in June.
- iii. The application of a student who has passed the status examination must be submitted to the Senate of the University for approval. Successful students may then enrol for the degree programme in the following academic year.

**Other selection criteria**

(Each on a scale of one to five.)

- Academic merit
- National/International need for public health
- Under-represented groups in public health
- Public health related employment
- Track record – e.g. employment, academic, community-building, etc.

## Other programme-specific information

**Please note:** All MMed students must register for, and attend (TNM 800) Applied research methodology, satisfactorily.

Also consult General Academic Regulations G30-G41.

## Examinations and pass requirements

Students must participate in all activities and should successfully complete all written and/or online tasks, as required, to the satisfaction of the Chairperson of the School. Written, oral and/or practical examinations must be passed in each prescribed and each elective module including TNM 802 Applied research methodology 802 and HMS 873 Scientific writing 873.

The minimum pass mark for the modules and the dissertation is 50% in all cases. Only with the approval of the Chairperson of the School, on the recommendation of the head of department, will a student be allowed to continue his or her studies after having failed a module twice. A second examination in a module is arranged in conjunction with the head of department for any student obtaining less than 50% and more than 39% for any module. In addition:

- i. The prescribed modules must be passed independently of each other.
- ii. No second examinations will be granted in modules in which less than 40% has been obtained. Instead, the module must be repeated in its entirety.

**i. Examination of modules**

- a. Each module has its individual (own) evaluation, which may consist of more than one mode of evaluation. To pass in a module, a student must obtain a minimum pass mark of 50%.
- b. If a student fails a module but obtains 40% to 49%, a second examination in the module in question must be written. The student must arrange with the lecturer who presents the module, in consultation with the Academic Programme Coordinator, in this regard.
- c. If a student fails a module but obtains a mark of less than 40%, the module must be repeated in full in the following year.

- d. If a core module is still not passed after two attempts, the student will not be allowed to continue with the MPH programme.
- e. A compulsory module in the student's track can only be repeated once. If it is not passed after the second attempt, the student will be requested to change the track. If the student fails after two attempts in the second track, he or she will not be allowed to continue with the MPH programme.
- f. If an elective module is failed after two attempts, the student will have to select another elective module.

#### *Examination of the mini-dissertation.*

The mini-dissertation will be examined by one internal examiner and one external examiner. A third (external) examiner may be appointed at the discretion of the chairperson of the school. The mini-dissertation must be passed independently with at least 50%.

## Research information

### **Research protocol**

After registration, a student is required to submit a complete research protocol regarding the proposed mini-dissertation to the student's division head for internal review. Thereafter the protocol is submitted to the Faculty of Health Sciences Research Ethics Committee for approval. No data collection may begin until the Research Ethics Committee has approved the protocol for implementation.

### **Mini-dissertation**

A mini-dissertation on an approved research project must be passed. The stipulations of the General Academic Regulations regarding the preparation and submission, the technical editing and the résumé of the dissertation apply.

- i. The mini-dissertation contributes 100 credits (the equivalent of 1 000 notional hours of learning according to the SAQA criteria).
- ii. The expected outcome of the mini-dissertation is that the student will be able to identify and investigate health and health systems problems in a comprehensive manner, and that he or she will be able to formulate appropriate interventions.
- iii. The student's research protocol is submitted for approval to the MPH Division for review, and, once approved, submitted to the Health Sciences Research Ethics Committee for their approval. Data collection may not begin until the protocol has been approved by the Health Sciences Research Ethics Committee.

## Pass with distinction

The MPH degree is awarded with distinction to a student who has obtained a mark of at least 75% for the dissertation as well as a simple (unweighted) average of at least 75% of all the marks (not rounded) for the other required modules for the degree (excluding the marks for TNM 802 and PHM 880).

## General information

### **Concurrent registration for two study programmes**

- i. In accordance with the stipulations of the General Academic Regulations, concurrent registration for two postgraduate programmes is not allowed, except in the case of exceptional academic achievement, and the permission of the Dean is required for concurrent registration, subject to the regulations applicable to the fields of study in question and to any other stipulations the Dean may prescribe. Such a concession may be



withdrawn by the Dean if the student does not perform satisfactorily – all assignments and coursework must be completed on time. Concurrent registration will not be accepted as a reason for poor performance or not meeting deadlines for both study programmes.

- ii. In the case of registering concurrently for two study programmes in the School of Health Systems and Public Health and elsewhere, students must obtain the written consent of both the coordinator of their current programme and the coordinator of the second programme (or the track co-ordinator in the case of the MPH), and submit it with a substantiating letter to the School's Academic Programme Committee, for recommendation by the Chairperson of the School, after which the application is submitted to the Dean for approval.
- iii. The School of Health Systems and Public Health states that concurrent registration for two study programmes is a privilege and not a right.
- iv. Concurrent registration must be applied for annually and is granted based on academic performance in the primary degree/diploma programme. If the current field of study is a master's degree, then the second field of study can be a postgraduate diploma.
- v. If the current field of study is a postgraduate diploma, then the second field of study can be another postgraduate diploma.

## Curriculum: Year 1

ACM872, 874 and 875 are available only under exceptional circumstances and with the approval of the Dean acting on the advice of the Chairperson of the SHSPH.

### Core modules

#### Global health governance and diplomacy 877 (HCM 877)

<b>Module credits</b>	15.00
<b>NQF Level</b>	09
<b>Prerequisites</b>	No prerequisites.
<b>Contact time</b>	Blended mode
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	School of Health System and Public Health
<b>Period of presentation</b>	Year

#### Module content

The module uses an interdisciplinary approach and focuses on global health governance and global health diplomacy. The module will bring together various disciplines such as public health, governance, economics, foreign policy and international affairs. The module moves from local to global giving emphasis to issues that manage and shape the global environment for public health.

#### Scientific writing 873 (HMS 873)

<b>Module credits</b>	0.00
<b>NQF Level</b>	09
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	School of Health System and Public Health
<b>Period of presentation</b>	Year

#### Learning in public health 880 (PHM 880)

<b>Module credits</b>	10.00
<b>NQF Level</b>	09
<b>Prerequisites</b>	No prerequisites.
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	School of Health System and Public Health
<b>Period of presentation</b>	Year

## Module content

The history and scope of public health. The importance of self-motivated "deep" learning as opposed to passive learning. Learning the value of group work. The use of the internet and the library to research areas of study. The writing of literature reviews and assignments, the avoidance of plagiarism. Improving English writing skills. Elements of human rights and public health ethics. Students will be given an assignment involving a short literature search and applied writing practice.

## Applied research methodology 802 (TNM 802)

<b>Module credits</b>	0.00
<b>NQF Level</b>	09
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Health Sciences Deans Office
<b>Period of presentation</b>	Year

## Module content

\*Attendance module only.

## Elective modules

### Individual study in public health 872 (ACM 872)

<b>Module credits</b>	20.00
<b>NQF Level</b>	09
<b>Prerequisites</b>	No prerequisites.
<b>Contact time</b>	16 lectures per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	School of Health System and Public Health
<b>Period of presentation</b>	Year

### Individual study in public health 874 (ACM 874)

<b>Module credits</b>	30.00
<b>NQF Level</b>	09
<b>Prerequisites</b>	No prerequisites.
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	School of Health System and Public Health
<b>Period of presentation</b>	Year

### Individual study in public health 875 (ACM 875)

<b>Module credits</b>	10.00
<b>NQF Level</b>	09



<b>Prerequisites</b>	No prerequisite.
<b>Contact time</b>	16 lectures per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	School of Health System and Public Health
<b>Period of presentation</b>	Year

### **Principles of communicable disease control 876 (CDC 876)**

<b>Module credits</b>	10.00
<b>NQF Level</b>	09
<b>Prerequisites</b>	No prerequisites.
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	School of Health System and Public Health
<b>Period of presentation</b>	Year

### **Seminars in tropical health (Agent) 877 (CDC 877)**

<b>Module credits</b>	10.00
<b>NQF Level</b>	09
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	School of Health System and Public Health
<b>Period of presentation</b>	Year

### **Seminars in tropical health (Environment) 878 (CDC 878)**

<b>Module credits</b>	10.00
<b>NQF Level</b>	09
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	School of Health System and Public Health
<b>Period of presentation</b>	Year

### **Seminars in tropical health (Host) 879 (CDC 879)**

<b>Module credits</b>	10.00
<b>NQF Level</b>	09
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	School of Health System and Public Health
<b>Period of presentation</b>	Year

### **Principles: Chronic disease epidemiology 870 (CDE 870)**

<b>Module credits</b>	5.00
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<b>NQF Level</b>	09
<b>Prerequisites</b>	No prerequisites.
<b>Contact time</b>	1 practical per week, 3 discussion classes per week, 3 seminars per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	School of Health System and Public Health
<b>Period of presentation</b>	Year

### Disease outbreak and control 871 (CDS 871)

<b>Module credits</b>	10.00
<b>NQF Level</b>	09
<b>Prerequisites</b>	HME 870
<b>Contact time</b>	40 lectures per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	School of Health System and Public Health
<b>Period of presentation</b>	Year

### Economic evaluation of disease control intervention 872 (CDS 872)

<b>Module credits</b>	5.00
<b>NQF Level</b>	09
<b>Service modules</b>	Faculty of Veterinary Science
<b>Prerequisites</b>	No prerequisites.
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	School of Health System and Public Health
<b>Period of presentation</b>	Year

#### Module content

Students learn when and how to perform economic analyses.

### Human nutrition and public health 874 (CDS 874)

<b>Module credits</b>	10.00
<b>NQF Level</b>	09
<b>Prerequisites</b>	No prerequisites.
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	School of Health System and Public Health
<b>Period of presentation</b>	Year



## Infectious disease epidemiology 870 (CDT 870)

<b>Module credits</b>	5.00
<b>NQF Level</b>	09
<b>Prerequisites</b>	HME 870
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	School of Health System and Public Health
<b>Period of presentation</b>	Year

### Module content

Students learn about the special rates applicable with outbreak and ID investigations. They learn about basic vaccinology (the epidemiology of) and introductory compartmental modelling terms and skills. They also learn basic clinical epidemiology concepts as applicable for screening and public health programmes. Finally they learn about the composition, duties and roles of the infection control team in a hospital.

## Health risk assessment 871 (EHM 871)

<b>Module credits</b>	10.00
<b>NQF Level</b>	09
<b>Service modules</b>	Faculty of Veterinary Science
<b>Prerequisites</b>	EOH 871
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	School of Health System and Public Health
<b>Period of presentation</b>	Year

## Environmental chemical pollution and health 874 (EHM 874)

<b>Module credits</b>	5.00
<b>NQF Level</b>	09
<b>Prerequisites</b>	No prerequisites.
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	School of Health System and Public Health
<b>Period of presentation</b>	Year

## Introduction to toxicology 871 (EOH 871)

<b>Module credits</b>	5.00
<b>NQF Level</b>	09
<b>Prerequisites</b>	No prerequisites.
<b>Contact time</b>	Blended mode



<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	School of Health System and Public Health
<b>Period of presentation</b>	Year

#### Module content

Provide understanding of toxicology related to the environment; furthermore provide an insight into the impacts of hazardous substances in the environment to the individual or the public. Promote the development of a comprehensive and systematic knowledge of this field with depth, specialisation and up-to-date knowledge. Develop effective information retrieval and processing skills and the ability to critically engage with current research and scholarship in toxicology.

### Introduction to toxicology 872 (EOH 872)

<b>Module credits</b>	10.00
<b>NQF Level</b>	09
<b>Prerequisites</b>	No prerequisites.
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	School of Health System and Public Health
<b>Period of presentation</b>	Year

#### Module content

Provide understanding of toxicology related to the environment; furthermore provide an insight into the impacts of hazardous substances in the environment to the individual or the public. Promote the development of a comprehensive and systematic knowledge of this field with depth, specialisation and up-to-date knowledge. Develop effective information retrieval and processing skills and the ability to critically engage with current research and scholarship in toxicology.

### Environmental epidemiology 871 (EOM 871)

<b>Module credits</b>	10.00
<b>NQF Level</b>	09
<b>Prerequisites</b>	No prerequisites.
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	School of Health System and Public Health
<b>Period of presentation</b>	Year

## Module content

This module is an introduction of the various types of epidemiological study designs that are applied in the investigation of the association between environmental exposures and health outcomes. Apart from the classical epidemiological study designs (cross-sectional, case-control and cohort designs that are introduced in HME 874), other study designs such as the time-series, case-crossover, panel, spatial, genetic and molecular study designs are introduced and discussed. The statistical techniques that are applied in the time-series, case-crossover, panel, spatial, genetic and molecular study designs are discussed as well as the implication of random and systematic errors in exposure/health assessment on the measures of associations; hence a basic biostatistics vocabulary (introduced in BOS 874) is required.

### Conducting surveys 873 (EPM 873)

<b>Module credits</b>	10.00
<b>NQF Level</b>	09
<b>Prerequisites</b>	BOS 870
<b>Contact time</b>	1 practical per week, 12 lectures per week, 4 discussion classes per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	School of Health System and Public Health
<b>Period of presentation</b>	Year

### Disease surveillance 874 (EPM 874)

<b>Module credits</b>	5.00
<b>NQF Level</b>	09
<b>Prerequisites</b>	No prerequisites.
<b>Contact time</b>	1 practical per week, 3 discussion classes per week, 3 seminars per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	School of Health System and Public Health
<b>Period of presentation</b>	Year

### Financial management in public health 872 (HCF 872)

<b>Module credits</b>	10.00
<b>NQF Level</b>	09
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	School of Health System and Public Health
<b>Period of presentation</b>	Year

### Health systems operations management 871 (HCI 871)

<b>Module credits</b>	10.00
<b>NQF Level</b>	09

<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	School of Health System and Public Health
<b>Period of presentation</b>	Year

### Health policy and systems 876 (HCM 876)

<b>Module credits</b>	10.00
<b>NQF Level</b>	09
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	School of Health System and Public Health
<b>Period of presentation</b>	Year

### Project management in health 876 (HCS 876)

<b>Module credits</b>	10.00
<b>NQF Level</b>	09
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	School of Health System and Public Health
<b>Period of presentation</b>	Year

### Introduction to monitoring and evaluation for health managers 874 (HIN 874)

<b>Module credits</b>	10.00
<b>NQF Level</b>	09
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	School of Health System and Public Health
<b>Period of presentation</b>	Year

#### Module content

This is an introductory module on Monitoring and Evaluation (M&E) designed to provide students with knowledge, attitudes and skills regarding M&E frameworks, health information and data systems and indicators, evaluation designs, development of M&E plans, data collection, processing and use and feedback of M&E results, within the context of health systems strengthening. At the end of the module the student should be able to define M&E concepts in the context of health systems strengthening; describe M&E frameworks; design an M&E plan; understand health information systems and data collection, processing and understand how M&E results can be used for health systems strengthening.

### Principles of human resource management 872 (HRM 872)

<b>Module credits</b>	10.00
<b>NQF Level</b>	09
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	School of Health System and Public Health

**Period of presentation** Year

### Postgraduate studies in occupational hygiene 1 873 (OHS 873)

**Module credits** 10.00

**NQF Level** 09

**Prerequisites** FLG 322 or equivalent occupational hygiene coursework with 2 year practical experience in the field of occupational hygiene

**Language of tuition** Module is presented in English

**Department** School of Health System and Public Health

**Period of presentation** Year

#### Module content

The purpose of this module is to introduce students to the basic concepts of occupational hygiene. Topics addressed in this module include occupational hygiene principles, legislation, risk management (including risk assessment), measuring environmental factors, ergonomics, biological environmental factors, psychological environmental factors, control of environmental factors, communication and report writing and toxicology. Problem-based assignments and practical work needs to be completed and submitted after completion of each unit standard.

### Postgraduate studies in occupational hygiene 2 874 (OHS 874)

**Module credits** 5.00

**NQF Level** 09

**Prerequisites** Satisfactory progress with submissions of OHS 873 assignments (unit standards 1 – 9)

**Language of tuition** Module is presented in English

**Department** School of Health System and Public Health

**Period of presentation** Year

#### Module content

Introduction to laboratory practice, occupational health education, research and statistical methods, integrated management systems, quality systems, audits and occupational hygiene management. Problem-based assignments need to be completed and submitted within a month after each unit standard.

### Qualitative research methods 870 (QHR 870)

**Module credits** 10.00

**NQF Level** 09

**Service modules** Faculty of Veterinary Science

**Prerequisites** No prerequisites.

**Language of tuition** Module is presented in English

**Department** School of Health System and Public Health



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**Period of presentation** Year

### Communication in health 873 (SCC 873)

**Module credits** 10.00

**NQF Level** 09

**Language of tuition** Module is presented in English

**Department** School of Health System and Public Health

**Period of presentation** Year

### Health promotion 870 (SCP 870)

**Module credits** 10.00

**NQF Level** 09

**Prerequisites** No prerequisites.

**Contact time** 16 lectures per week

**Language of tuition** Module is presented in English

**Department** School of Health System and Public Health

**Period of presentation** Year

### Principles of quality assurance 872 (TQM 872)

**Module credits** 10.00

**NQF Level** 09

**Language of tuition** Module is presented in English

**Department** School of Health System and Public Health

**Period of presentation** Year

## Curriculum: Final year

### Core modules

#### Global health governance and diplomacy 877 (HCM 877)

<b>Module credits</b>	15.00
<b>NQF Level</b>	09
<b>Prerequisites</b>	No prerequisites.
<b>Contact time</b>	Blended mode
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	School of Health System and Public Health
<b>Period of presentation</b>	Year

#### Module content

The module uses an interdisciplinary approach and focuses on global health governance and global health diplomacy. The module will bring together various disciplines such as public health, governance, economics, foreign policy and international affairs. The module moves from local to global giving emphasis to issues that manage and shape the global environment for public health.

#### Scientific writing 873 (HMS 873)

<b>Module credits</b>	0.00
<b>NQF Level</b>	09
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	School of Health System and Public Health
<b>Period of presentation</b>	Year

#### Learning in public health 880 (PHM 880)

<b>Module credits</b>	10.00
<b>NQF Level</b>	09
<b>Prerequisites</b>	No prerequisites.
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	School of Health System and Public Health
<b>Period of presentation</b>	Year

#### Module content

The history and scope of public health. The importance of self-motivated "deep" learning as opposed to passive learning. Learning the value of group work. The use of the internet and the library to research areas of study. The writing of literature reviews and assignments, the avoidance of plagiarism. Improving English writing skills. Elements of human rights and public health ethics. Students will be given an assignment involving a short literature search and applied writing practice.



### Mini-dissertation 870 (PHR 870)

Module credits	100.00
NQF Level	09
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	School of Health System and Public Health
Period of presentation	Year

### Applied research methodology 802 (TNM 802)

Module credits	0.00
NQF Level	09
Language of tuition	Module is presented in English
Department	Health Sciences Deans Office
Period of presentation	Year

#### Module content

\*Attendance module only.

### Elective modules

#### Individual study in public health 872 (ACM 872)

Module credits	20.00
NQF Level	09
Prerequisites	No prerequisites.
Contact time	16 lectures per week
Language of tuition	Module is presented in English
Department	School of Health System and Public Health
Period of presentation	Year

#### Individual study in public health 874 (ACM 874)

Module credits	30.00
NQF Level	09
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	School of Health System and Public Health
Period of presentation	Year





### Individual study in public health 875 (ACM 875)

Module credits	10.00
NQF Level	09
Prerequisites	No prerequisite.
Contact time	16 lectures per week
Language of tuition	Module is presented in English
Department	School of Health System and Public Health
Period of presentation	Year

### Principles of communicable disease control 876 (CDC 876)

Module credits	10.00
NQF Level	09
Prerequisites	No prerequisites.
Language of tuition	Module is presented in English
Department	School of Health System and Public Health
Period of presentation	Year

### Seminars in tropical health (Agent) 877 (CDC 877)

Module credits	10.00
NQF Level	09
Language of tuition	Module is presented in English
Department	School of Health System and Public Health
Period of presentation	Year

### Seminars in tropical health (Environment) 878 (CDC 878)

Module credits	10.00
NQF Level	09
Language of tuition	Module is presented in English
Department	School of Health System and Public Health
Period of presentation	Year

### Seminars in tropical health (Host) 879 (CDC 879)

Module credits	10.00
NQF Level	09
Language of tuition	Module is presented in English
Department	School of Health System and Public Health

**Period of presentation** Year

### Principles: Chronic disease epidemiology 870 (CDE 870)

**Module credits** 5.00

**NQF Level** 09

**Prerequisites** No prerequisites.

**Contact time** 1 practical per week, 3 discussion classes per week, 3 seminars per week

**Language of tuition** Module is presented in English

**Department** School of Health System and Public Health

**Period of presentation** Year

### Disease outbreak and control 871 (CDS 871)

**Module credits** 10.00

**NQF Level** 09

**Prerequisites** HME 870

**Contact time** 40 lectures per week

**Language of tuition** Module is presented in English

**Department** School of Health System and Public Health

**Period of presentation** Year

### Economic evaluation of disease control intervention 872 (CDS 872)

**Module credits** 5.00

**NQF Level** 09

**Service modules** Faculty of Veterinary Science

**Prerequisites** No prerequisites.

**Language of tuition** Module is presented in English

**Department** School of Health System and Public Health

**Period of presentation** Year

#### Module content

Students learn when and how to perform economic analyses.

### Human nutrition and public health 874 (CDS 874)

**Module credits** 10.00

**NQF Level** 09

**Prerequisites** No prerequisites.

**Language of tuition** Module is presented in English

**Department** School of Health System and Public Health

**Period of presentation** Year

### Infectious disease epidemiology 870 (CDT 870)

**Module credits** 5.00

**NQF Level** 09

**Prerequisites** HME 870

**Language of tuition** Module is presented in English

**Department** School of Health System and Public Health

**Period of presentation** Year

#### Module content

Students learn about the special rates applicable with outbreak and ID investigations. They learn about basic vaccinology (the epidemiology of) and introductory compartmental modelling terms and skills. They also learn basic clinical epidemiology concepts as applicable for screening and public health programmes. Finally they learn about the composition, duties and roles of the infection control team in a hospital.

### Health risk assessment 871 (EHM 871)

**Module credits** 10.00

**NQF Level** 09

**Service modules** Faculty of Veterinary Science

**Prerequisites** EOH 871

**Language of tuition** Module is presented in English

**Department** School of Health System and Public Health

**Period of presentation** Year

### Environmental chemical pollution and health 874 (EHM 874)

**Module credits** 5.00

**NQF Level** 09

**Prerequisites** No prerequisites.

**Language of tuition** Module is presented in English

**Department** School of Health System and Public Health

**Period of presentation** Year

### Introduction to toxicology 871 (EOH 871)

**Module credits** 5.00

**NQF Level** 09



<b>Prerequisites</b>	No prerequisites.
<b>Contact time</b>	Blended mode
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	School of Health System and Public Health
<b>Period of presentation</b>	Year

#### Module content

Provide understanding of toxicology related to the environment; furthermore provide an insight into the impacts of hazardous substances in the environment to the individual or the public. Promote the development of a comprehensive and systematic knowledge of this field with depth, specialisation and up-to-date knowledge. Develop effective information retrieval and processing skills and the ability to critically engage with current research and scholarship in toxicology.

### Introduction to toxicology 872 (EOH 872)

<b>Module credits</b>	10.00
<b>NQF Level</b>	09
<b>Prerequisites</b>	No prerequisites.
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	School of Health System and Public Health
<b>Period of presentation</b>	Year

#### Module content

Provide understanding of toxicology related to the environment; furthermore provide an insight into the impacts of hazardous substances in the environment to the individual or the public. Promote the development of a comprehensive and systematic knowledge of this field with depth, specialisation and up-to-date knowledge. Develop effective information retrieval and processing skills and the ability to critically engage with current research and scholarship in toxicology.

### Environmental epidemiology 871 (EOM 871)

<b>Module credits</b>	10.00
<b>NQF Level</b>	09
<b>Prerequisites</b>	No prerequisites.
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	School of Health System and Public Health
<b>Period of presentation</b>	Year

## Module content

This module is an introduction of the various types of epidemiological study designs that are applied in the investigation of the association between environmental exposures and health outcomes. Apart from the classical epidemiological study designs (cross-sectional, case-control and cohort designs that are introduced in HME 874), other study designs such as the time-series, case-crossover, panel, spatial, genetic and molecular study designs are introduced and discussed. The statistical techniques that are applied in the time-series, case-crossover, panel, spatial, genetic and molecular study designs are discussed as well as the implication of random and systematic errors in exposure/health assessment on the measures of associations; hence a basic biostatistics vocabulary (introduced in BOS 874) is required.

### Conducting surveys 873 (EPM 873)

<b>Module credits</b>	10.00
<b>NQF Level</b>	09
<b>Prerequisites</b>	BOS 870
<b>Contact time</b>	1 practical per week, 12 lectures per week, 4 discussion classes per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	School of Health System and Public Health
<b>Period of presentation</b>	Year

### Disease surveillance 874 (EPM 874)

<b>Module credits</b>	5.00
<b>NQF Level</b>	09
<b>Prerequisites</b>	No prerequisites.
<b>Contact time</b>	1 practical per week, 3 discussion classes per week, 3 seminars per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	School of Health System and Public Health
<b>Period of presentation</b>	Year

### Financial management in public health 872 (HCF 872)

<b>Module credits</b>	10.00
<b>NQF Level</b>	09
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	School of Health System and Public Health
<b>Period of presentation</b>	Year

### Health systems operations management 871 (HCI 871)

<b>Module credits</b>	10.00
<b>NQF Level</b>	09

<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	School of Health System and Public Health
<b>Period of presentation</b>	Year

### Health policy and systems 876 (HCM 876)

<b>Module credits</b>	10.00
<b>NQF Level</b>	09
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	School of Health System and Public Health
<b>Period of presentation</b>	Year

### Project management in health 876 (HCS 876)

<b>Module credits</b>	10.00
<b>NQF Level</b>	09
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	School of Health System and Public Health
<b>Period of presentation</b>	Year

### Introduction to monitoring and evaluation for health managers 874 (HIN 874)

<b>Module credits</b>	10.00
<b>NQF Level</b>	09
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	School of Health System and Public Health
<b>Period of presentation</b>	Year

#### Module content

This is an introductory module on Monitoring and Evaluation (M&E) designed to provide students with knowledge, attitudes and skills regarding M&E frameworks, health information and data systems and indicators, evaluation designs, development of M&E plans, data collection, processing and use and feedback of M&E results, within the context of health systems strengthening. At the end of the module the student should be able to define M&E concepts in the context of health systems strengthening; describe M&E frameworks; design an M&E plan; understand health information systems and data collection, processing and understand how M&E results can be used for health systems strengthening.

### Principles of human resource management 872 (HRM 872)

<b>Module credits</b>	10.00
<b>NQF Level</b>	09
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	School of Health System and Public Health

**Period of presentation** Year

### Postgraduate studies in occupational hygiene 1 873 (OHS 873)

**Module credits** 10.00

**NQF Level** 09

**Prerequisites** FLG 322 or equivalent occupational hygiene coursework with 2 year practical experience in the field of occupational hygiene

**Language of tuition** Module is presented in English

**Department** School of Health System and Public Health

**Period of presentation** Year

#### Module content

The purpose of this module is to introduce students to the basic concepts of occupational hygiene. Topics addressed in this module include occupational hygiene principles, legislation, risk management (including risk assessment), measuring environmental factors, ergonomics, biological environmental factors, psychological environmental factors, control of environmental factors, communication and report writing and toxicology. Problem-based assignments and practical work needs to be completed and submitted after completion of each unit standard.

### Postgraduate studies in occupational hygiene 2 874 (OHS 874)

**Module credits** 5.00

**NQF Level** 09

**Prerequisites** Satisfactory progress with submissions of OHS 873 assignments (unit standards 1 – 9)

**Language of tuition** Module is presented in English

**Department** School of Health System and Public Health

**Period of presentation** Year

#### Module content

Introduction to laboratory practice, occupational health education, research and statistical methods, integrated management systems, quality systems, audits and occupational hygiene management. Problem-based assignments need to be completed and submitted within a month after each unit standard.

### Qualitative research methods 870 (QHR 870)

**Module credits** 10.00

**NQF Level** 09

**Service modules** Faculty of Veterinary Science

**Prerequisites** No prerequisites.

**Language of tuition** Module is presented in English

**Department** School of Health System and Public Health

**Period of presentation** Year

### Communication in health 873 (SCC 873)

**Module credits** 10.00

**NQF Level** 09

**Language of tuition** Module is presented in English

**Department** School of Health System and Public Health

**Period of presentation** Year

### Health promotion 870 (SCP 870)

**Module credits** 10.00

**NQF Level** 09

**Prerequisites** No prerequisites.

**Contact time** 16 lectures per week

**Language of tuition** Module is presented in English

**Department** School of Health System and Public Health

**Period of presentation** Year

### Principles of quality assurance 872 (TQM 872)

**Module credits** 10.00

**NQF Level** 09

**Language of tuition** Module is presented in English

**Department** School of Health System and Public Health

**Period of presentation** Year

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