

# University of Pretoria Yearbook 2019

## MPH (10256502)

**Minimum duration of study** 2 years

**Total credits** 195

### Programme information

The MPH programme comprises the following three components:

- Core modules
- Track modules (compulsory and elective)
- Mini-dissertation

#### **Track modules (compulsory and elective)**

The following areas are available:

- Biostatistics and epidemiology – Monitoring and evaluation
- Disease control
- Disease control – field Epidemiology and Laboratory Training programme
- Environmental and occupational health
- Environmental and occupational health – Occupational hygiene
- Environmental and occupational health – Aerospace medicine
- Health policy and management
- Health promotion

Information regarding the content of each track is available on the website of the School of Health Systems and Public Health ([www.shsph.up.ac.za](http://www.shsph.up.ac.za)).

### Admission 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.

Contact department before application.

## 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
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**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.

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**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 Regulations

## Examinations and pass requirements

### i. Examination of modules

- 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%.
- 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.
- 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.
- If a core module is still not passed after two attempts, the student will not be allowed to continue with the MPH programme.
- 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.
- If an elective module is failed after two attempts, the student will have to select another elective module.

### ii. Final examinations for the MPH

- Other than summarising the total of marks obtained for modules, the MPH has an additional evaluation of its coursework, consisting of two comprehensive examinations. The decision as to whether these examinations will be written or conducted orally, lies with the examiners.
- The first examination (PHM 871 Public health examination Part 1 871 ) will take place after completion of all the compulsory core modules with the exception of HMS 871 Scientific writing 871 ; and is a test of the ability to apply basic knowledge in Public Health. This examination will consist of two papers, each three hours long. Paper II will cover material learned during the core modules HME 870 and BOS 870. Paper I will cover material learned during the remaining core modules with the exception of material learned during the Scientific writing 871 module (HMS 871). This examination will be externally moderated.
- The second examination will take place at the end of the MPH programme and covers the modules taken as part of a track.
- The minimum pass mark for PHM 871 and for PHM 872 is 50% for each examination. For PHM 871 there are two papers; Paper I and Paper II. A subminima for 40% is required for each of these two papers and the final mark is simple( unweighted) average marks for the two papers. For PHM 872 there will be one three hour paper. The pass mark is 50% . If a student is awarded a final mark between 40% and 49% for either PHM 871 or PHM 872 the student will be offered a supplementary examination 2-3 months later. If the supplementary examination is passed the student will be awarded a mark of 50% for the examination. For both PHM871 and PHM 872 students will be permitted only two attempts (excluding one supplementary examination per attempt for those who qualify for it/them. If a student fails either of the examination, either with or without a

supplementary examination, he or she will be required to re-sit in the next available examination period. If a student fails for the second time, he/she will be required to re-sit in the next available examination period. If a student fails for the second time, he/she may not continue with the MPH programme.

The mini-dissertation must be passed independently with at least 50%.

## Research information

### Mini-dissertation

- i. The MPH degree consists of coursework (70%) and a research component (30%). The mini-dissertation contributes 60 credits (the equivalent of 600 notional hours of learning according to 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 (i.e. begin to) formulate appropriate interventions.
- iii. The student's research protocol is submitted for approval to the MPH track head, prior to submission to the Health Sciences Research Ethics Committee.

## Pass with distinction

The degree will be conferred with distinction on a student who has a final mark of at least 75% for the mini-dissertation as well as a simple (i.e. unweighted) average mark of at least 75% for the following modules:

- all the required modules, excluding PHM 870 Learning in Public Health 870.
- PHM 871 Public health examination Part 1 871
- PHM 872 Public health examination Part 2 872

## General information

### Concurrent registration for two study programmes

- i. In accordance with the stipulations of the General Regulations, which is mutatis mutandis applicable in the case of postgraduate diploma study, 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

## Core modules

### Biostatistics 1 874 (BOS 874)

<b>Module credits</b>	10.00
<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 disease control 880 (CDC 880)

<b>Module credits</b>	10.00
<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 principles of disease prevention and control to cover the scope of infectious and non-infectious diseases as well as disabilities. The "one health" approach is also included. The syllabus also includes basic demographic indicators and calculations previously learned during DEG 870.

### Basis of environmental health 881 (EHM 881)

<b>Module credits</b>	10.00
<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 principles of environmental health and environmental measures to prevent and control disease, both infectious and non-infectious diseases. The syllabus also includes ethical concepts previously learned during part of the discontinued module HET 870.

### Introduction to health management 875 (HCM 875)

<b>Module credits</b>	10.00
<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

## Epidemiology 1 874 (HME 874)

<b>Module credits</b>	10.00
<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 principles of epidemiology including applied epidemiology (e.g. infectious disease epidemiology, clinical epidemiology and operational research). The use of EpiData software for questionnaire design and data collection.

## Scientific writing 873 (HMS 873)

<b>Module credits</b>	0.00
<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>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)

<b>Module credits</b>	100.00
<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

## Social determinants of health and primary health care 880 (SCM 880)

<b>Module credits</b>	10.00
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<b>Prerequisites</b>	No prerequisite.
<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 social determinants of health and primary health care including the declaration of Alma Ata. The principles of health promotion including the Ottawa Charter. Applied demographic principles including migration and health, and social aspects of human sexual and reproductive health. Nutrition and school health programmes.

### Applied research methodology 802 (TNM 802)

<b>Module credits</b>	0.00
<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 874 (ACM 874)

<b>Module credits</b>	30.00
<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>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

#### Biostatistics 2 875 (BOS 875)

<b>Module credits</b>	10.00
<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

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

<b>Module credits</b>	10.00
<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>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>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>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
<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>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>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>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>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>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

### Methods in exposure assessment 872 (EHM 872)

<b>Module credits</b>	10.00
<b>Prerequisites</b>	EOM 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

### Introduction to toxicology 872 (EOH 872)

<b>Module credits</b>	5.00
<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 environmental and occupational health 873 (EOH 873)

<b>Module credits</b>	10.00
<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

### Environmental epidemiology 871 (EOM 871)

<b>Module credits</b>	10.00
<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.

## Epidemiology 2 870 (EPM 870)

<b>Module credits</b>	10.00
<b>Prerequisites</b>	HME 870, BOS 870 and BOS 871
<b>Contact time</b>	lectures and practicals
<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

Advanced epidemiological concepts and topics building upon learning that has taken place in the introductory epidemiology modules; further study design (including randomised control trials and observational studies); proposal writing; advanced examination of bias, confounding and effect modification; Stratification and standardisation of rates; further selected special biostatistical methods.

## Conducting surveys 873 (EPM 873)

<b>Module credits</b>	10.00
<b>Prerequisites</b>	BOS 870
<b>Contact time</b>	12 lectures per week, 4 discussion classes per week, 1 practical 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>Prerequisites</b>	No prerequisites.
<b>Contact time</b>	3 discussion classes per week, 3 seminars per week, 1 practical per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	School of Health System and Public Health

**Period of presentation** Year

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

**Module credits** 10.00

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

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

**Period of presentation** Year

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

**Module credits** 10.00

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

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

**Period of presentation** Year

### Managing occupational health services 873 (HCM 873)

**Module credits** 10.00

**Prerequisites** EOH 870

**Contact time** 16 lectures per week, 4 seminars per week, 1 practical per week, 4 discussion classes per week

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

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

**Period of presentation** Year

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

**Module credits** 10.00

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

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

**Period of presentation** Year

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

**Module credits** 10.00

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

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

**Period of presentation** Year

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

**Module credits** 10.00

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

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

**Period of presentation** 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.

## Monitoring and evaluation 875 (HME 875)

**Module credits** 15.00

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

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

**Period of presentation** Year

## Health data management 874 (HMS 874)

**Module credits** 5.00

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

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

**Period of presentation** Year

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

**Module credits** 10.00

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

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

**Period of presentation** Year

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

**Module credits** 10.00

**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

**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.

## Individual studies in occupational hygiene 875 (OHS 875)

**Module credits** 5.00

**Prerequisites** FLG 322 or equivalent Occupational hygiene coursework with 2 yrs practical experience, satisfactory progress in OHS 873.

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

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

**Period of presentation** Year

## Module content

In-depth knowledge in occupational hygiene concerning legislative requirements related to different occupational hygiene strategies and stressors, i.e. risk assessment, occupational stress, illumination, extreme thermal conditions, noise, airborne contaminants, ventilation and ergonomics. Students need to compile template reports and submit it for grading.

## Principles of occupational hygiene and toxicology 872 (OHT 872)

**Module credits** 10.00

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

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

**Period of presentation** Year

### Qualitative research methods 870 (QHR 870)

<b>Module credits</b>	10.00
<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

### Communication in health 873 (SCC 873)

<b>Module credits</b>	10.00
<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 promotion 870 (SCP 870)

<b>Module credits</b>	10.00
<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

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

<b>Module credits</b>	10.00
<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



## Curriculum: Final year

### Core modules

#### Biostatistics 1 874 (BOS 874)

<b>Module credits</b>	10.00
<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 disease control 880 (CDC 880)

<b>Module credits</b>	10.00
<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 principles of disease prevention and control to cover the scope of infectious and non-infectious diseases as well as disabilities. The "one health" approach is also included. The syllabus also includes basic demographic indicators and calculations previously learned during DEG 870.

#### Basis of environmental health 881 (EHM 881)

<b>Module credits</b>	10.00
<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 principles of environmental health and environmental measures to prevent and control disease, both infectious and non-infectious diseases. The syllabus also includes ethical concepts previously learned during part of the discontinued module HET 870.

#### Introduction to health management 875 (HCM 875)

<b>Module credits</b>	10.00
<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

## Epidemiology 1 874 (HME 874)

<b>Module credits</b>	10.00
<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 principles of epidemiology including applied epidemiology (e.g. infectious disease epidemiology, clinical epidemiology and operational research). The use of EpiData software for questionnaire design and data collection.

## Scientific writing 873 (HMS 873)

<b>Module credits</b>	0.00
<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>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)

<b>Module credits</b>	100.00
<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

## Social determinants of health and primary health care 880 (SCM 880)

<b>Module credits</b>	10.00
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<b>Prerequisites</b>	No prerequisite.
<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 social determinants of health and primary health care including the declaration of Alma Ata. The principles of health promotion including the Ottawa Charter. Applied demographic principles including migration and health, and social aspects of human sexual and reproductive health. Nutrition and school health programmes.

### Applied research methodology 802 (TNM 802)

<b>Module credits</b>	0.00
<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 874 (ACM 874)

<b>Module credits</b>	30.00
<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>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

#### Biostatistics 2 875 (BOS 875)

<b>Module credits</b>	10.00
<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

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

<b>Module credits</b>	10.00
<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>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>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>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
<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>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>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>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>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>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

### Methods in exposure assessment 872 (EHM 872)

<b>Module credits</b>	10.00
<b>Prerequisites</b>	EOM 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

### Introduction to toxicology 872 (EOH 872)

<b>Module credits</b>	5.00
<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 environmental and occupational health 873 (EOH 873)

<b>Module credits</b>	10.00
<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

### Environmental epidemiology 871 (EOM 871)

<b>Module credits</b>	10.00
<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.

## Epidemiology 2 870 (EPM 870)

<b>Module credits</b>	10.00
<b>Prerequisites</b>	HME 870, BOS 870 and BOS 871
<b>Contact time</b>	lectures and practicals
<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

Advanced epidemiological concepts and topics building upon learning that has taken place in the introductory epidemiology modules; further study design (including randomised control trials and observational studies); proposal writing; advanced examination of bias, confounding and effect modification; Stratification and standardisation of rates; further selected special biostatistical methods.

## Conducting surveys 873 (EPM 873)

<b>Module credits</b>	10.00
<b>Prerequisites</b>	BOS 870
<b>Contact time</b>	12 lectures per week, 4 discussion classes per week, 1 practical 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>Prerequisites</b>	No prerequisites.
<b>Contact time</b>	3 discussion classes per week, 3 seminars per week, 1 practical per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	School of Health System and Public Health

**Period of presentation** Year

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

**Module credits** 10.00

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

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

**Period of presentation** Year

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

**Module credits** 10.00

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

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

**Period of presentation** Year

### Managing occupational health services 873 (HCM 873)

**Module credits** 10.00

**Prerequisites** EOH 870

**Contact time** 16 lectures per week, 4 seminars per week, 1 practical per week, 4 discussion classes per week

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

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

**Period of presentation** Year

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

**Module credits** 10.00

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

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

**Period of presentation** Year

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

**Module credits** 10.00

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

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

**Period of presentation** Year

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

**Module credits** 10.00

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

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

**Period of presentation** 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.

## Monitoring and evaluation 875 (HME 875)

**Module credits** 15.00

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

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

**Period of presentation** Year

## Health data management 874 (HMS 874)

**Module credits** 5.00

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

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

**Period of presentation** Year

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

**Module credits** 10.00

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

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

**Period of presentation** Year

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

**Module credits** 10.00

**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

**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.

## Individual studies in occupational hygiene 875 (OHS 875)

**Module credits** 5.00

**Prerequisites** FLG 322 or equivalent Occupational hygiene coursework with 2 yrs practical experience, satisfactory progress in OHS 873.

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

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

**Period of presentation** Year

## Module content

In-depth knowledge in occupational hygiene concerning legislative requirements related to different occupational hygiene strategies and stressors, i.e. risk assessment, occupational stress, illumination, extreme thermal conditions, noise, airborne contaminants, ventilation and ergonomics. Students need to compile template reports and submit it for grading.

## Principles of occupational hygiene and toxicology 872 (OHT 872)

**Module credits** 10.00

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

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

**Period of presentation** Year

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### Qualitative research methods 870 (QHR 870)

<b>Module credits</b>	10.00
<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

### Communication in health 873 (SCC 873)

<b>Module credits</b>	10.00
<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 promotion 870 (SCP 870)

<b>Module credits</b>	10.00
<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

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The information published here is subject to change and may be amended after the publication of this information. The [General Regulations \(G Regulations\)](#) apply to all faculties of the University of Pretoria. It is expected of students to familiarise themselves well with these regulations as well as with the information contained in the [General Rules](#) section. Ignorance concerning these regulations and rules will not be accepted as an excuse for any transgression.