University of Pretoria Yearbook 2021

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 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).

Admission requirements

1. Relevant honours degree **or** relevant four-year bachelor's degree and at least two years' applicable practical (work) experience **or** 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 Regulations

Examinations and pass requirements

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 consul-tation 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.

ii. **Final examinations for the MPH**

a. 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.
b. 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.
c. The second examination will take place at the end of the MPH programme and covers the modules taken as part of a track.
d. 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 examation is passed the student will be awarded a mark of 50% for the examination. For both PHM 871 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 examinaton , the student will be required to rewrite it the next avaiable examination period. If a student fails for the second time, the student will be required to rewrite in the next available examination period. A student who fails for the second time 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

Minimum credits: 80

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

Biostatistics 1 874 (BOS 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

Introduction to disease control 880 (CDC 880)

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

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)

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

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)

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

Epidemiology 1 874 (HME 874)

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

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)

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

Learning in public health 880 (PHM 880)

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

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	60.00
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

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

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

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 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

Biostatistics 2 875 (BOS 875)

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

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

Methods in exposure assessment 872 (EHM 872)

Module credits	10.00
NQF Level	09

Prerequisites	EOM 870
Language of tuition	Module is presented in English
Department	School of Health System and Public Health
Period of presentation	Year

Introduction to toxiocology 872 (EOH 872)

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

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)

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

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)

Module credits	10.00

NQF Level	09
Prerequisites	HME 870, BOS 870 and BOS 871
Contact time	lectures and practicals
Language of tuition	Module is presented in English
Department	School of Health System and Public Health
Period of presentation	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)

Module credits	10.00
NQF Level	09
Prerequisites	BOS 870
Contact time	1 practical per week, 12 lectures 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

Disease surveillance 874 (EPM 874)

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

Financial management in public health 872 (HCF 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

Health systems operations management 871 (HCI 871)

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

Occupational health law 872 (HCL 872)

Module credits	10.00
NQF Level	09
Prerequisites	EOH 870
Contact time	1 practical per week, 16 lectures per week
Language of tuition	Module is presented in English
Department	School of Health System and Public Health
Period of presentation	Year

Module content

To provide students with knowledge on all the relevant legislation pertaining to occupational health in the general and mining industries.

Managing occupational health services 873 (HCM 873)

Module credits	10.00
NQF Level	09
Prerequisites	EOH 870
Contact time	1 practical per week, 16 lectures per week, 4 discussion classes per week, 4 seminars 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
NQF Level	09
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
NQF Level	09
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
NQF Level	09
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
NQF Level	09
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
NQF Level	09
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

NQF Level	09
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
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.

Individual studies in occupational hygiene 875 (OHS 875)

Module credits	5.00
NQF Level	09

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.

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

Curriculum: Final year

Minimum credits: 100

Core modules

Biostatistics 1 874 (BOS 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

Introduction to disease control 880 (CDC 880)

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

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)

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

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)

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

Epidemiology 1 874 (HME 874)

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

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)

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

Learning in public health 880 (PHM 880)

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

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	60.00
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

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

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

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 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

Biostatistics 2 875 (BOS 875)

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

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

Methods in exposure assessment 872 (EHM 872)

Module credits	10.00
NQF Level	09

Prerequisites	EOM 870
Language of tuition	Module is presented in English
Department	School of Health System and Public Health
Period of presentation	Year

Introduction to toxiocology 872 (EOH 872)

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

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)

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

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)

Module credits	10.00

NQF Level	09
Prerequisites	HME 870, BOS 870 and BOS 871
Contact time	lectures and practicals
Language of tuition	Module is presented in English
Department	School of Health System and Public Health
Period of presentation	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)

Module credits	10.00
NQF Level	09
Prerequisites	BOS 870
Contact time	1 practical per week, 12 lectures 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

Disease surveillance 874 (EPM 874)

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

Financial management in public health 872 (HCF 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

Health systems operations management 871 (HCI 871)

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

Occupational health law 872 (HCL 872)

Module credits	10.00
NQF Level	09
Prerequisites	EOH 870
Contact time	1 practical per week, 16 lectures per week
Language of tuition	Module is presented in English
Department	School of Health System and Public Health
Period of presentation	Year

Module content

To provide students with knowledge on all the relevant legislation pertaining to occupational health in the general and mining industries.

Managing occupational health services 873 (HCM 873)

Module credits	10.00
NQF Level	09
Prerequisites	EOH 870
Contact time	1 practical per week, 16 lectures per week, 4 discussion classes per week, 4 seminars 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
NQF Level	09
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
NQF Level	09
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
NQF Level	09
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
NQF Level	09
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
NQF Level	09
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

NQF Level	09
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
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.

Individual studies in occupational hygiene 875 (OHS 875)

Module credits	5.00
NQF Level	09

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.

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

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.