



University of Pretoria Yearbook 2016

MSc Biostatistics (10253110)

Duration of study 2 years

Admission requirements

Subject to the stipulations of the General Regulations, a four-year bachelor's degree is required or an honours degree or in the case of a three-year bachelor's degree also applicable practical (work) experience as prescribed by the University plus any other additional work deemed necessary by the head of department: With the proviso that the head of department will have the discretion to decide whether the prerequisite qualification or the qualification plus work experience would be acceptable for admission to the proposed field of study.

In the case of the field of study Biostatistics, an applicable honours degree is required, with Statistics at honours level.

Additional requirements

All MSc students must register for, and attend (TNM 800) Applied research methodology 800 satisfactorily. (Exemption may be granted if the module has already been passed for the BScHons degree.) Also consult General Regulations.

Other programme-specific information

Please note: The choice of elective modules has to be approved by the supervisor.

Subject to the stipulations of the General Regulations, the Chairperson of the School may, in consultation with the head of department, approve a fixed limited extension of the period on the grounds of extraordinary circumstances.

Examinations and pass requirements

- i. The minimum pass mark for a module is 50%.
- ii. The prescribed modules must be passed independently of each other.
- iii. Second examinations in the modules are arranged by the head of department, within a period of time specified by him or her.
- iv. No second examinations will be granted in modules in which less than 40% has been obtained. Instead, the module must be repeated in its entirety.
- v. Only with the approval of the Chairperson of the School, on the recommendation of the head of department, will a student be allowed to continue his or her studies after having failed two modules (or the same module twice).



Research information

Research protocol

After registration, a student is required to submit a complete research protocol regarding the proposed dissertation to the Academic Advisory Committee and if necessary, also to the Ethics Committee for approval.

Dissertation

A dissertation on an approved research project must be passed in addition to the coursework. The stipulations of the General Regulations regarding the preparation and submission, the technical editing and the résumé of the dissertation apply.

A systematic literature review (Cochrane type) on an approved subject, which is undertaken in such a manner that bias is minimised, may be presented as an alternative to the dissertation for awarding the MSc degree, provided that the module CLI 870 Principles of clinical epidemiology has been successfully completed. It requires, inter alia, a research protocol with clearly formulated objectives and methods. Inclusion and exclusion methods for the study must be determined. Where applicable, the data must be summarised (meta analysis), with applicable statistical methods.

Pass with distinction

The average mark of the modules, weighted in respect of the number of credits acquired for each individual module, will be the final mark (%) of the coursework.

The degree is conferred with distinction on a student who obtains an average mark of at least 75% in the coursework, as well as a final mark of at least 75% for the dissertation.



Curriculum: Year 1

Minimum credits: 240

Core modules

Individual study in public health 872 (ACM 872)

Module credits	20.00
Prerequisites	No prerequisites.
Contact time	16 lectures per week
Language of tuition	English
Academic organisation	School of Health Syst & Public
Period of presentation	Year

Survival analysis 873 (BOS 873)

Module credits	5.00
Prerequisites	BOS 871
Contact time	3 seminars per week, 1 practical per week, 3 discussion classes per week
Language of tuition	English
Academic organisation	School of Health Syst & Public
Period of presentation	Year

Epidemiology 2 870 (EPM 870)

Module credits	5.00
Prerequisites	BOS 871 and EPM 871
Contact time	lectures and practicals
Language of tuition	English
Academic organisation	School of Health Syst & Public
Period of presentation	Year

Conducting surveys 873 (EPM 873)

Module credits	10.00
Prerequisites	BOS 870
Contact time	12 lectures per week, 1 practical per week
Language of tuition	English
Academic organisation	School of Health Syst & Public
Period of presentation	Year



Monitoring and evaluation 873 (HME 873)

Module credits	15.00
Service modules	Faculty of Veterinary Science
Prerequisites	No prerequisites.
Contact time	2 lectures per week, 1 practical per week
Language of tuition	English
Academic organisation	School of Health Syst & Public
Period of presentation	Year

Scientific writing 871 (HMS 871)

Module credits	5.00
Contact time	16 lectures per week
Language of tuition	English
Academic organisation	School of Health Syst & Public
Period of presentation	Year

Learning in public health 870 (PHM 870)

Module credits	5.00
Prerequisites	No prerequisites.
Contact time	1 seminar per week, 1 discussion class per week, 1 practical per week, 1 other contact session per week, 1 lecture per week
Language of tuition	English
Academic organisation	School of Health Syst & Public
Period of presentation	Year

Module content

This is the first (one-week) module at the beginning of the year focusing on learning. At the end of this week, you will have a much better understanding of what you actually want to achieve in public health and what you need to learn to get there. You will probably also have changed your views on learning: from individual surface learning and memorization, to valuing deep learning often in a group context. Finally, you will have achieved the ability to use the ever-increasing knowledge in health, philosophy, and ethics that are generated on the internet to your own best advantage.

Applied research methodology 800 (TNM 800)

Module credits	5.00
Prerequisites	BOS 870
Language of tuition	English
Academic organisation	School of Health Syst & Public



Period of presentation Year

Module content

*Attendance module only

Elective modules

Principles: Chronic disease epidemiology 870 (CDE 870)

Module credits 5.00

Prerequisites No prerequisites.

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

Language of tuition English

Academic organisation School of Health Syst & Public

Period of presentation Year

Principles of clinical epidemiology 870 (CLI 870)

Module credits 10.00

Prerequisites HME 870

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

Language of tuition English

Academic organisation School of Health Syst & Public

Period of presentation Year

Evidence-based medicine 871 (CLI 871)

Module credits 12.00

Prerequisites CLI 870

Contact time 1 practical per week, 16 lectures per week

Language of tuition English

Academic organisation School of Health Syst & Public

Period of presentation Year

Principles of demography 870 (DEG 870)

Module credits 5.00

Prerequisites No prerequisites.

Contact time 1 lecture per week, 1 discussion class per week, 1 other contact session per week, 1 seminar per week, 1 practical per week

Language of tuition English

Academic organisation School of Health Syst & Public



Period of presentation	Year
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Disease surveillance 874 (EPM 874)

Module credits	5.00
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Prerequisites	No prerequisites.
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Contact time	3 discussion classes per week, 1 practical per week, 3 seminars per week
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Language of tuition	English
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Academic organisation	School of Health Syst & Public
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Period of presentation	Year
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Curriculum: Final year

Minimum credits: 240

Core modules

Individual study in public health 872 (ACM 872)

Module credits	20.00
Prerequisites	No prerequisites.
Contact time	16 lectures per week
Language of tuition	English
Academic organisation	School of Health Syst & Public
Period of presentation	Year

Survival analysis 873 (BOS 873)

Module credits	5.00
Prerequisites	BOS 871
Contact time	3 seminars per week, 1 practical per week, 3 discussion classes per week
Language of tuition	English
Academic organisation	School of Health Syst & Public
Period of presentation	Year

Epidemiology 2 870 (EPM 870)

Module credits	5.00
Prerequisites	BOS 871 and EPM 871
Contact time	lectures and practicals
Language of tuition	English
Academic organisation	School of Health Syst & Public
Period of presentation	Year

Conducting surveys 873 (EPM 873)

Module credits	10.00
Prerequisites	BOS 870
Contact time	12 lectures per week, 1 practical per week
Language of tuition	English
Academic organisation	School of Health Syst & Public
Period of presentation	Year



Monitoring and evaluation 873 (HME 873)

Module credits	15.00
Service modules	Faculty of Veterinary Science
Prerequisites	No prerequisites.
Contact time	2 lectures per week, 1 practical per week
Language of tuition	English
Academic organisation	School of Health Syst & Public
Period of presentation	Year

Scientific writing 871 (HMS 871)

Module credits	5.00
Contact time	16 lectures per week
Language of tuition	English
Academic organisation	School of Health Syst & Public
Period of presentation	Year

Dissertation: Quantitative health legislation 890 (KGW 890)

Module credits	240.00
Prerequisites	No prerequisites.
Language of tuition	Both Afr and Eng
Academic organisation	Public Health Medicine
Period of presentation	Year

Learning in public health 870 (PHM 870)

Module credits	5.00
Prerequisites	No prerequisites.
Contact time	1 seminar per week, 1 discussion class per week, 1 practical per week, 1 other contact session per week, 1 lecture per week
Language of tuition	English
Academic organisation	School of Health Syst & Public
Period of presentation	Year



Module content

This is the first (one-week) module at the beginning of the year focusing on learning. At the end of this week, you will have a much better understanding of what you actually want to achieve in public health and what you need to learn to get there. You will probably also have changed your views on learning: from individual surface learning and memorization, to valuing deep learning often in a group context. Finally, you will have achieved the ability to use the ever-increasing knowledge in health, philosophy, and ethics that are generated on the internet to your own best advantage.

Applied research methodology 800 (TNM 800)

Module credits 5.00

Prerequisites BOS 870

Language of tuition English

Academic organisation School of Health Syst & Public

Period of presentation Year

Module content

*Attendance module only

Elective modules

Principles of clinical epidemiology 870 (CLI 870)

Module credits 10.00

Prerequisites HME 870

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

Language of tuition English

Academic organisation School of Health Syst & Public

Period of presentation Year

Evidence-based medicine 871 (CLI 871)

Module credits 12.00

Prerequisites CLI 870

Contact time 1 practical per week, 16 lectures per week

Language of tuition English

Academic organisation School of Health Syst & Public

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.