University of Pretoria Yearbook 2016

BScHons Aerospace Medicine (10244021)

Duration of study 1 year

Programme information

The following requirements are set:

- Advanced instruction by means of self-tuition, lectures and seminars.
- Students must pass the module TNM 800 Applied research methodology 800.
- Students must pass the module PHM 770 Learning in public health 770.
- Students must pass a research report (or project) that carries at least 30 credits.

Admission requirements

- A candidate must hold a bachelor's degree deemed acceptable by the head of department for the proposed field of study or an equivalent qualification deemed acceptable by the Senate of the University for the proposed field of study with at least one applicable biological subject as major subject.

- Admission to the study for an honours degree is subject to the approval of the head of department: with the proviso that a candidate who has obtained an average of less than 60% in the modules of his or her major subject in the final year of the bachelor's degree study may only be admitted with the **Dean's approval** on the recommendation of the head of department. Additional requirements may be set by the head of department.

Additional requirements

- Candidates must have an MBChB or equivalent degree deemed acceptable by the head of the department.
- Candidates must be registered Aviation Medical Examiners.

Examinations and pass requirements

i. The individual modules in each field of study must all be passed with a mark of at least 50% in each module, before a student may graduate in that field of study.
ii. Each field of study has a specified, externally moderated, summative assessment that must also be passed before the student may graduate.

Pass with distinction

The degree is conferred with distinction on a student who has obtained an average of at least 75% in the summative assessment, as well as an average of at least 75% for the remaining components of the curriculum (i.e. excluding the summative assessment mark).

Curriculum: Final year

Minimum credits: 120

Core modules

Primary epidemiology 772 (HME 772)

Module credits	10.00
Prerequisites	No prerequisites.
Contact time	8 lectures per week, 2 practicals per week, 1 other contact session per week, 1 seminar per week
Language of tuition	English
Academic organisation	Public Health Medicine
Period of presentation	Year

Aerospace medicine 700 (LRG 700)

Module credits	85.00
Prerequisites	No prerequisites.
Contact time	8 hours for 5 days
Language of tuition	English
Academic organisation	School of Health Syst & Public
Period of presentation	Year

Module content

The purpose of this module is to teach the fundamentals of aerospace medicine. Topics addressed in this module include:
Aviation Physiology (The Aviation working environment, cognition, decision making, communication, sleep and fatigue, physics of the atmosphere, hypobarism, hypoxia, vision, spatial disorientation, acceleration, radiation, noise, vibration hyper/hypothermia.)
Clinical Aviation Medicine (Incapacitation during flight, aging, cardiology, neurology, ophthalmology, ENT, pulmonology, psychiatry, metabolic/endocrine, malignancy, digestive system, haematology, urinary, renal, gynaecological/obstetric, musculoskeletal, infective, medication.)
Aviation medical regulations (Regulations of the International Civil Aviation Organisation and the South African Civil Aviation Authority.)

Learning in public health 770 (PHM 770)

Module credits	5.00
Prerequisites	No prerequisites.
Contact time	50 hours per week
Language of tuition	English
Academic organisation	School of Health Syst & Public

Period of presentation	Year

Module content

Special introduction to fundamentals in Executive Leadership in health
The emerging student will be taught the fundamentals in executive leadership in healthcare systems which will form the basic platform or foundation for understanding the challenges for application of leadership modalities at the different levels of healthcare service delivery in the public health service and how to begin to think and analyse how the principles of executive leadership at their level of appointment can improve health service delivery.

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

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.