

# University of Pretoria Yearbook 2020

## BScHons Aerospace Medicine (10244024)

**Minimum duration of study** 2 years

**Total credits** 120

**NQF level** 08

### Programme information

The following requirements are set:

- Advanced instruction by means of self-tuition, lectures and seminars.
- Students must pass the module TNM 700 Applied research methodology 700.
- 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

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

The contact time for the research component LRG701 will comprise 16 hours during the 3 contact weeks.

This honours degree cannot be completed in less than two (2) years.

### Core modules

#### Primary epidemiology 773 (HME 773)

<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

#### Aerospace medicine 700 (LRG 700)

<b>Module credits</b>	75.00
<b>Prerequisites</b>	No prerequisites.
<b>Contact time</b>	8 hours for 5 days
<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 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.)

#### Research report: Aerospace medicine 701 (LRG 701)

<b>Module credits</b>	30.00
<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 773 (PHM 773)

<b>Module credits</b>	5.00
<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

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 700 (TNM 700)

<b>Module credits</b>	0.00
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	School of Medicine
<b>Period of presentation</b>	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.