

University of Pretoria Yearbook 2022

BPhysT (10138103)

Department Physiotherapy

Minimum duration of study 4 years

Total credits 526

NQF level 08

Programme information

The programme extends over four academic years, during which period a student receives clinical training as a student physiotherapist at an institution approved by the University.

Admission requirements

Important information for all prospective students for 2022

- The admission requirements apply to students who apply for admission to the University of Pretoria with a **National Senior Certificate (NSC) and Independent Examination Board (IEB) qualifications.**
- **Applicants with qualifications other than the abovementioned** should refer to:
 - **Brochure:** Undergraduate Programme Information 2022: Qualifications other than the NSC and IEB, available at [click here](#).
- **Citizens from countries other than South Africa (applicants who are not South African citizens)** should also refer to:
 - **Brochure:** Newcomer's Guide 2021, available at [click here](#).
 - **Website:** [click here](#).
- **School of Tomorrow (SOT), Accelerated Christian Education (ACE) and General Education Development Test (GED):** The University of Pretoria no longer accepts qualifications awarded by these institutions.
- **National Certificate (Vocational) (NCV) Level 4:** The University of Pretoria may consider NCV candidates, provided they meet the exemption for bachelor's status criteria and the programme requirements.

Transferring students

A transferring student is a student who, at the time of application for a degree programme at the University of Pretoria (UP) –

- is a registered student at another tertiary institution, **or** was previously registered at another tertiary institution and did not complete the programme enrolled for at that institution, and is not currently enrolled at a tertiary institution, **or** has completed studies at another tertiary institution, but is not currently enrolled at a tertiary institution, **or** has started with tertiary studies at UP, then moved to another tertiary institution and wants to be readmitted at UP.

A transferring student will be considered for admission based on

- an NSC or equivalent qualification with exemption to bachelor's or diploma studies (whichever is applicable); **and** meeting the minimum faculty-specific subject requirements at NSC or tertiary level; **or** having completed a higher certificate at a tertiary institution with faculty-specific subjects/modules passed (equal to or more than 50%), as well as complying with faculty rules on admission;
- previous academic performance (must have passed all modules registered for up to the closing date of application) or as per faculty regulation/promotion requirements;
- a certificate of good conduct.

Note: Students who have been dismissed at the previous institution due to poor academic performance, will not be considered for admission to UP.

Returning students

A returning student is a student who, at the time of application for a degree programme -

- is a registered student at UP, and wants to transfer to another degree at UP, **or** was previously registered at UP and did not complete the programme enrolled for, and did not enrol at another tertiary institution in the meantime (including students who applied for leave of absence), **or** has completed studies at UP, but is not currently enrolled or was not enrolled at another tertiary institution after graduation.

A returning student will be considered for admission based on

- an NSC or equivalent qualification with exemption to bachelor's or diploma studies (whichever is applicable); **and** meeting the minimum faculty-specific subject requirements at NSC or tertiary level; **or** previous academic performance (should have a cumulative weighted average of at least 50% for the programme enrolled for);
- having applied for and was granted leave of absence.

Note: Students who have been excluded/dismissed from a faculty due to poor academic performance may be considered for admission to another programme at UP. The Admissions Committee may consider such students if they were not dismissed more than twice. Only ONE transfer between UP faculties will be allowed, and a maximum of two (2) transfers within a faculty.

Important faculty-specific information on undergraduate programmes for 2022

- The following persons will be considered for admission: a candidate who is in possession of a certificate that is deemed by the University to be equivalent to the required National Senior Certificate (NSC) with university endorsement; a candidate who is a graduate from another tertiary institution or has been granted the status of a graduate of such an institution; a candidate who is a graduate of another Faculty at the University of Pretoria; and a candidate who is currently studying at a university.
- Admission to Health Sciences programmes is subject to a selection process.
- Grade 11 final examination results will be used for the conditional selection of prospective students.
- For selection purposes, the sum of the results in six subjects, including English, Mathematics and Physical Sciences, is calculated.
- Life Orientation is excluded in the calculation of the Admission Point Score (APS).
- All modules will be presented in English, as English is the language of tuition, communication and correspondence.
- Places are reserved in specific categories to ensure an equitable representation of demographically defined designated groups. Selection thus takes place in different categories.
- For purposes of selection in the Faculty of Health Sciences, the "Designated Group" category includes South African Black African or South African Coloured African candidates. The "Open" category refers to all applicants including applicants from the Designated Group who compete first in the Open category and then in the Designated Group category if unsuccessful in the Open category.
- Target numbers are specified for all categories as applicable to each programme. Where insufficient

applications are received from qualifying applicants in a certain category, the selection committee may decide not to fill all places or to fill the places from qualifying applicants in another category.

- A limited number of places are made available to citizens from countries other than South Africa (applicants who are not South African citizens), with those from SADC countries being given preference. Permanent residents of RSA are not categorised as foreign students. Applications from citizens from countries other than South Africa (applicants who are not South African citizens) may also be considered if they are
 - citizens or permanent residents of countries which have relevant government to government agreements with South Africa
 - asylum seekers or refugees
- Citizens from countries other than South Africa (applicants who are not South African citizens) who do not comply with the conditions above may be considered if space is available.
- If an applicant has multiple citizenships, which includes South African citizenship, he/she will be considered as a South African applicant.
- The final number of places allocated to new applicants will be determined on an annual basis taking into account the teaching facilities and resources available and, where necessary, the number of places allocated to students repeating modules in the first year of study of each degree programme.
- Only applicants who comply with the requirements set out in this document will be considered for selection. However, the achievement of the minimum requirements does not guarantee admission as only a limited number of students can be accommodated.
- Selection is based on merit. The faculty does not determine specific selection cut-off values for the different categories. Such values are generated by the competing students within a particular category in relation to the number of places available.
- A Merit Point Score (MPS) is used for ranking applicants for selection purposes in all programmes. In certain programmes other criteria such as rural residence may be used as part of the selection process.
- Only first-choice applicants will be considered, except where otherwise specified, in which case second-choice candidates may be considered if there are places available.
- The top candidates will be selected provisionally up to or surpassing the allocated number, based on experience of the expected number of acceptances. A waiting list is created from the group of candidates with the next highest scores. The length of the waiting list is determined by experience of the number of places likely to become available and to prevent creating unrealistic expectations.
- All offers are provisional until the final exam results have been received. For applicants in the School leaver categories a provisional place will be confirmed as long as the NSC or equivalent scores do not fall by more than two points from the Grade 11 APS score.
- After the final NSC or equivalent qualification results are received, provisional offers will be confirmed if the applicant still meets the required criteria. The MPS of those on the waiting list will be recalculated using the NSC or equivalent qualification results and if places become available they will be made offers.
- Places becoming available in any category after selection due to cancellation or forfeiture will be filled from the waiting list for the specific category.
- This waiting list will remain active until the end of the second week after the start of lectures.
- All successful candidates are admitted to the first year of study only. Registered students in the University Experienced categories may apply for credit for equivalent modules which they have completed.
- Incomplete applications will not be considered and any false information provided by an applicant in his/her application may result in immediate cancellation of the application, admission or registration.
- **Candidates should note that their conditional admission will be revoked if their APS drops by more than two points in their final school examination results.**
- PLEASE NOTE that compliance with the minimum admission requirements does not guarantee admission to any

programme in this Faculty.

- Selection queries may be directed to [click here](#).
- A student who is made an offer but does not accept it cannot defer the offer and must reapply to be considered in the following year.

University of Pretoria website [click here](#)

Minimum requirements

Achievement level

English Home

Language or

English First

Additional

Language

NSC/IEB

4

Mathematics

NSC/IEB

4

Physical Sciences

NSC/IEB

4

APS

30

Additional requirements

Also consult General Academic Regulations G1-G15.

Notes:

- For students who registered for the BPhysT degree programme, the relevant regulations as they appear in the particular Yearbook will apply.
- Each student in Physiotherapy must apply to the Registrar of the Health Professions Council of South Africa for registration as a student in Physiotherapy immediately after admission to the first year of study.

Other programme-specific information

First year of study

Practical nursing

Practical nursing for a continual period of 40 hours must be completed satisfactorily at an approved hospital/facility after the conclusion of the examination period in November. Documentary proof to this effect must be submitted.

Subminimum

A subminimum of 40% is required in the theoretical as well as in the practical examination in FTP 100.

Second year of study

Basic Emergency Care (Code GNK 286)

- If students obtain 65% or more in Basic Emergency Care, this mark will be validated as the examination mark at the end of the year, and such students will be exempted from the examination in the module.
- Students who obtain between 40% and 49% in the calculated mark for the module, will be admitted to a supplementary examination in November/ December of the same year, or in January of the following year. A minimum of 50% is required as a pass mark for the supplementary examination.
- This examination will also serve as a special examination for students who could not write the initial examination due to health or other acceptable reasons. A student must, however, apply formally to be admitted to such an examination, and the application must be approved by the Dean, on the recommendation of the head of department, and in some cases, also by the Faculty Health Committee.

Subminimum

A subminimum of 40% is required in the theoretical and practical components in the examination in FTP 220 and 203 and in POL 251 IHL 210

Third year of study

Subminimum

A subminimum of 40% is required in the theoretical and practical/clinical examination in (FTP) Physiotherapy 300, (FTP) Physiotherapy clinical practice 301 and (POL) Professional development and leadership 300.

Fourth year of study

Subminimum

A subminimum of 40% is required in clinical/practical as well as theoretical components of the examination of (FTP 400,402) Physiotherapy 400 and 402 and (IHL 414, 424) Integrated healthcare leadership 414, 424.

Exemption from the examination in (ANP) Anatomical Pathology 210

Exemption from the examination may be granted if a student who obtained a module mark of at least 65%, exercises the option to accept it as the final mark.

Exemption from the examination in (FAR) Pharmacology 381, 382

Exemption from the examination can be granted if a student who obtained a module mark of at least 65%, exercises the option to accept it as the final mark.

Examinations and pass requirements

Chancellor's examination: Repeating fourth year of study

- The student gets another opportunity to take part in the examination.
 - A special examination in (FTP 403) Physiotherapy 403, (FTP 404) Physiotherapy clinical practice 404 and (IHL 414, 424) Integrated healthcare leadership 414, 424, is conducted after six months have elapsed since the examination in which the student failed. If the student failed in (FTP 402) Physiotherapy clinical practice 402, he or she must undergo further clinical instruction in the clinical training areas and obtain at least 50% in the examination.
 - A student who has not obtained a pass mark in the research report of RHC 400, Research in healthcare sciences 400, must submit an amended research report at a later date determined by the head of department.
- In accordance with the stipulations of the General Academic Regulations a year, semester or quarter mark of at least 40% is required for admission to the examination in all undergraduate modules in the University where year, semester and quarter marks apply.
 - The final mark for a specific module in Nursing Science, Physiotherapy, Radiography, Occupational Therapy and Human Nutrition (at least 50% is required to pass) is calculated from the examination mark as well as the mark compiled from the evaluation of a student during continuous, objective and controlled assessment opportunities during the course of the quarter/semester/year. At least one formal assessment per module is set as the minimum norm, and students will be exposed on a continuous and regular basis to self-directed assignments in order to promote reflective learning.
 - In the case of modules with practical components, students are required to also comply with the applicable attendance requirements with regard to acquiring practical skills before a pass mark can be obtained for the module.
 - There are two main examination periods per annum. In respect of first-semester modules, the standard examination is in May/June and the supplementary examination is in July. In respect of second-semester modules, the standard examination is in October/ November and the supplementary examination is in

November/December of the same year. Where students need to work additional clinical hours to be allowed to do a supplementary examination, the relevant head of department will determine the date of the supplementary examination.

- Only two examination opportunities per module are allowed. If a student fails the supplementary examination, the module must be repeated.
- A supplementary examination in a module is granted to students in the following cases:
 - If a student obtains a final mark of between 40%-49% in the relevant module at the standard examination and thus fails.
 - If a student obtains a final mark of at least 50% but the required subminimum in the examination, as required for a specific module, has not been obtained.
- Students intending to sit the supplementary examination due to the reasons mentioned above, must register for the supplementary examination 24 hours after the results have been made public.
- If a student fails a module at the standard examination, the examination mark obtained in the relevant module at the supplementary examination will be calculated as the final mark. The marks obtained with continuous evaluation during the course of the quarter/semester/year will not be taken into calculation. If the student passes the module at the supplementary examination opportunity, a maximum of 50% is awarded as a pass mark to the module in question.
- A student who is prevented from writing the standard examination due to illness or other qualifying circumstances, may be granted permission by the dean to write a special examination in the particular module(s).
- If a student is granted permission from the Dean to write a special examination, the continuous evaluation mark, together with the examination mark obtained in the module in question at the supplementary examination opportunity, will be calculated as the final mark obtained in the module.
- In instances where students are unable to write the examination and supplementary examination as a consequence of a serious medical condition or an accident, such a student must apply for a special dispensation, with the support of the dean, to the Registrar, who will make a final decision.
- The School of Healthcare Sciences applies the General Academic Regulations, according to which a student requiring a limited number of modules (no more than the equivalent of four semester modules) to complete his or her degree, may in terms of faculty regulations, be admitted to a Chancellor's examination in the modules in question.

Promotion to next study year

- Selected first-year students who have passed in sufficient first-semester modules at 100 level will, according to the stipulations of the General Academic Regulations, automatically be admitted to the second semester of the first year of study. During the second semester, students may follow the outstanding module(s) on an anti-semester basis and write the examination, on the condition that the modules in question are indeed presented on an anti-semester basis in the second semester by the relevant department and can be accommodated in the class and examination timetables.
- Modules/subjects with practical and clinical training credits cannot be passed, unless all prescribed clinical hours and practical skills have been completed to the satisfaction of the head of department.
- A student must pass in all the prescribed core modules of a specific year of study to be promoted to a subsequent year of study. A student can only be promoted to a subsequent year of study if the student has not failed more than two fundamental modules of seven weeks each per semester or one module of 14 weeks per semester. A non-negotiable prerequisite for admission to the final year of study is pass marks in all the core and fundamental modules of the preceding years of study. Refer to the programmes for fundamental modules in each discipline.

- A pass mark refers to a final mark of at least 50%.
- Modules with practical and clinical training credits cannot be passed unless all the prescribed clinical hours and practical activities have been completed to the satisfaction of the relevant head of department.
- The Chairperson of the examination moderating meeting may, after assessing the student's total profile, grant special approval to be promoted to the next year of study.
- Modules can only be taken in advance or repeated if it can be accommodated in the existing examination timetable.
- A student who must repeat a year of study may, with the approval of the Chairperson of the examination moderating meeting and the relevant head of department, be allowed to take fundamental modules of the subsequent year, if he/she complies with all the prerequisites for the relevant modules. No adjustment to existing timetables will be allowed.

The following fundamental modules are relevant:

? FSG 251, 252, 261, 262; SLK 210, ANP 210; GMB 252, 253, 254; FAR 381, 382

Pass with distinction

The degree is conferred with distinction on a student who has obtained at least 75% in (FTP 403) Physiotherapy 403 and (FTP 404) Physiotherapy clinical practice 404 and a joint average of at least 75% in (RHC 400) Research in healthcare sciences 400 and (IHL 414, 424) Integrated healthcare leadership 414, 424 (not rounded).

Curriculum: Year 1

Minimum credits: 130

Fundamental modules

Academic information management 111 (AIM 111)

Module credits	4.00
NQF Level	05
Service modules	Faculty of Engineering, Built Environment and Information Technology Faculty of Education Faculty of Economic and Management Sciences Faculty of Humanities Faculty of Law Faculty of Health Sciences Faculty of Natural and Agricultural Sciences Faculty of Theology and Religion
Prerequisites	No prerequisites.
Contact time	2 lectures per week
Language of tuition	Module is presented in English
Department	Information Science
Period of presentation	Semester 1

Module content

Find, evaluate, process, manage and present information resources for academic purposes using appropriate technology.

Academic information management 121 (AIM 121)

Module credits	4.00
NQF Level	05
Service modules	Faculty of Engineering, Built Environment and Information Technology Faculty of Education Faculty of Economic and Management Sciences Faculty of Humanities Faculty of Law Faculty of Health Sciences Faculty of Natural and Agricultural Sciences Faculty of Theology and Religion Faculty of Veterinary Science
Prerequisites	No prerequisites.
Contact time	2 lectures per week
Language of tuition	Module is presented in English
Department	Informatics

Period of presentation Semester 2

Module content

Apply effective search strategies in different technological environments. Demonstrate the ethical and fair use of information resources. Integrate 21st-century communications into the management of academic information.

Introduction to anatomy 151 (ANA 151)

Module credits 6.00

NQF Level 05

Prerequisites No prerequisites.

Contact time 1 discussion class per week, 1 practical per week, 3 lectures per week

Language of tuition Module is presented in English

Department Anatomy

Period of presentation Quarter 1

Module content

A systematic approach to Anatomy, including general terminology, embryology and osteology, with the use of wet specimens. Introductory histology includes cytology, the nucleus and cell division, epithelial tissue, general connective tissue, cartilage and bone.

Anatomy of the limbs 152 (ANA 152)

Module credits 6.00

NQF Level 05

Prerequisites No prerequisites.

Contact time 1 discussion class per week, 1 practical per week, 3 lectures per week

Language of tuition Module is presented in English

Department Anatomy

Period of presentation Quarter 2

Module content

Anatomy of the appendicular skeleton

A systematic approach to the Anatomy of the muscles, blood vessels, nerve supply, lymph drainage and joints of the upper and lower limbs, as well as surface anatomy, with the use of wet specimens. Introductory histology includes muscle tissue, nerve tissue, and blood and haemopoietic tissue.

Anatomy of the torso 161 (ANA 161)

Module credits 6.00

NQF Level 05

Prerequisites No prerequisites.

Contact time 1 discussion class per week, 1 practical per week, 3 lectures per week

Language of tuition Module is presented in English

Department Anatomy

Period of presentation Quarter 3

Module content

A systematic approach to the anatomy of the thorax and its contents, the abdomen and its contents and the pelvis and its contents (organs, vascular systems, nerve supply, lymph drainage, muscles and joints), as well as surface anatomy, with the use of wet specimens. Introductory histology includes the histology of the lungs, liver and kidneys.

Anatomy of the head and neck 162 (ANA 162)

Module credits 6.00

NQF Level 05

Prerequisites No prerequisites.

Contact time 1 discussion class per week, 1 practical per week, 3 lectures per week

Language of tuition Module is presented in English

Department Anatomy

Period of presentation Quarter 4

Module content

Anatomy of the head and neck, and neuroanatomy

A systematic approach to the anatomy of the head and neck regions, the senses and the central and peripheral nervous system (cranial nerves, autonomic nervous system), as well as surface anatomy, with the use of wet specimens.

Chemistry 151 (CMY 151)

Module credits 16.00

NQF Level 05

Service modules Faculty of Health Sciences
Faculty of Veterinary Science

Prerequisites A candidate must have Mathematics for at least 60% and 60% for Physical Sciences.

Contact time 1 practical per week, 4 lectures per week

Language of tuition Module is presented in English

Department Chemistry

Period of presentation Semester 1



Module content

Theory: Introduction to general chemistry: Measurement in chemistry, matter and energy, atomic theory and the periodic table, chemical compounds and chemical bonds; quantitative relationships in chemical reactions, states of matter and the kinetic theory; solutions and colloids, acids, bases and ionic compounds, chemical equilibria. Introduction to organic chemistry: Chemical bonding in organic compounds, nature, physical properties and nomenclature of simple organic molecules, isomerism, chemical properties of alkanes and cycloalkanes, alkenes, alcohols, aldehydes and ketones, carboxylic acids and esters, amines and amides, carbohydrates, proteins, and lipids. Practicals.

Academic English for Health Sciences (BNurs, BDietetics, BOH, BOT, BRad and BPhysT) 121 (ELH 121)

Module credits	6.00
NQF Level	05
Service modules	Faculty of Health Sciences
Prerequisites	No prerequisites.
Contact time	1 discussion class per week, 2 lectures per week
Language of tuition	Module is presented in English
Department	Unit for Academic Literacy
Period of presentation	Semester 1

Module content

Academic reading as well as academic writing and presentation skills, based on the approach followed in the healthcare sciences. **Presented to students in Health Sciences only.*

Academic English for Health Sciences122 (ELH 122)

Module credits	6.00
NQF Level	05
Service modules	Faculty of Health Sciences
Prerequisites	No prerequisites.
Contact time	1 discussion class per week, 2 lectures per week
Language of tuition	Module is presented in English
Department	Unit for Academic Literacy
Period of presentation	Semester 2

Module content

Study of specific language skills required in the Health Care Sciences, including interviewing and report-writing skills. **Presented to students in Health Sciences only.* (BCur, BDietetics, BOH, BOT, Brad, BPhysT)*



Physiology 161 (FSG 161)

Module credits	6.00
NQF Level	05
Prerequisites	No prerequisites.
Contact time	1 practical per week, 4 lectures per week
Language of tuition	Module is presented in English
Department	Physiology
Period of presentation	Quarter 3

Module content

Introduction to physiological principles; neurophysiology, and muscle physiology.

Physiology 162 (FSG 162)

Module credits	6.00
NQF Level	05
Prerequisites	No prerequisites.
Contact time	1 practical per week, 4 lectures per week
Language of tuition	Module is presented in English
Department	Physiology
Period of presentation	Quarter 4

Module content

Body fluids; haematology; cardiovascular physiology, lymphatic system, and body defence mechanisms.

Physics for biology students 131 (PHY 131)

Module credits	16.00
NQF Level	05
Service modules	Faculty of Education Faculty of Health Sciences Faculty of Veterinary Science
Prerequisites	A candidate must have passed Mathematics with at least 60% in the Grade 12 examination
Contact time	1 discussion class per week, 1 practical per week, 4 lectures per week
Language of tuition	Module is presented in English
Department	Physics
Period of presentation	Semester 1

Module content

Units, vectors, one dimensional kinematics, dynamics, work, equilibrium, sound, liquids, heat, thermodynamic processes, electric potential and capacitance, direct current and alternating current, optics, modern physics, radio activity.

Sepedi for beginners 119 (SEP 119)

Module credits 12.00

NQF Level 06

Prerequisites No prerequisites.

Contact time 1 discussion class per week, 2 lectures per week

Language of tuition Module is presented in English

Department African Languages

Period of presentation Semester 2

Module content

*For absolute beginners only.

* Students from the School of Healthcare Sciences, who already possess the language skills taught in this module, may write an exemption examination.

The acquisition of basic Sepedi communicative skills with emphasis on everyday expressions and suitable high frequency vocabulary, within specific social situations.

Psychology 110 (SLK 110)

Module credits 12.00

NQF Level 05

Service modules Faculty of Engineering, Built Environment and Information Technology
Faculty of Education
Faculty of Health Sciences
Faculty of Natural and Agricultural Sciences

Prerequisites No prerequisites.

Contact time 2 discussion classes per week, 2 lectures per week

Language of tuition Module is presented in English

Department Psychology

Period of presentation Semester 1

Module content

This module is a general orientation to Psychology. An introduction is given to various theoretical approaches in Psychology, and the development of Psychology as a science is discussed. Selected themes from everyday life are explored and integrated with psychological principles. This module focuses on major personality theories. An introduction is given to various paradigmatic approaches in Psychology.

Academic orientation 110 (UPO 110)

Module credits	0.00
NQF Level	00
Language of tuition	Module is presented in English
Department	Health Sciences Deans Office
Period of presentation	Year

isiZulu for beginners 119 (ZUL 119)

Module credits	12.00
NQF Level	06
Prerequisites	No prerequisites.
Contact time	1 discussion class per week, 2 lectures per week
Language of tuition	Module is presented in English
Department	African Languages
Period of presentation	Semester 2

Module content

*For absolute beginners only

* Students from the School of Healthcare Sciences, who already possess the language skills taught in this module, may write an exemption examination.

The acquisition of basic isiZulu communicative skills with emphasis on everyday expressions and suitable high frequency vocabulary, within specific situations.

Core modules

Physiotherapy 101 (FTP 101)

Module credits	10.00
NQF Level	05
Contact time	1 web-based period per week, 3 lectures per week, 4 practicals per week
Language of tuition	Module is presented in English
Department	Physiotherapy
Period of presentation	Year

Module content

General introduction and orientation to physiotherapy, PBL skills and evidence-based approach to physiotherapy. Introduction to biomechanics, terminology, passive movements, measurement of the range of movement, clinical visits and patient-handling.

Kinetics: axis, planes, levers, effect of gravity on the human body.

Applied electro biomechanics: introduction to radiation, high-frequency, ultrasound, shortwave diathermy, laser, ultraviolet, infrared radiation.

Introduction to manual therapy: general introduction to massaging, evaluation of soft tissue, types applications and effects of massage techniques on various types of tissue, modalities application to the human body.

Human movement science: introduction to biomechanics, study of human movement, functional evaluation, muscle-testing, types of muscular activity, kinematics: analysis of movement, motor control and posture, characteristics of normal movement. Applied electrobiomechanics, introduction to medium frequency currents, Russian currents. Pulmonology.

Note: Physiotherapy is presented in a problem-based and integrated manner.

Integrated healthcare leadership 120 (IHL 120)

Module credits	8.00
NQF Level	05
Service modules	Faculty of Humanities
Contact time	2 lectures per week
Language of tuition	Module is presented in English
Department	Nursing Science
Period of presentation	Semester 2

Module content

Leadership and multidisciplinary team work. Healthcare systems and legislation. Determinants of health. Introduction to healthcare models (e.g. community-based care, family-centred care, etc.). Professionalism, Ethical principles. Management of diversity. NB: Only for School of Healthcare Sciences and Department of Speech-Language Pathology and Audiology students.

Curriculum: Year 2

Minimum credits: 128

Fundamental modules

Anatomical pathology 210 (ANP 210)

Module credits	10.00
NQF Level	06
Prerequisites	[PHY 131, CMY 151, FSG 161, FSG 162, FTP 100, ANA 152, ANA 162] or [FSG 251, FSG 252, FSG 261, FSG 262, AKU 200, ART 282, ART 284, RPD 200, ART 281, ART 283] or [RAN 280, RAW 281, RAW 282, RAW 283]
Contact time	1 seminar per week, 2 lectures per week
Language of tuition	Module is presented in English
Department	Anatomical Pathology
Period of presentation	Semester 1

Module content

General principles of pathology, including necroses, reversible cell damage, reparation and abnormalities of growth, circulation disturbances, acute and chronic infections, classification of the spreading of tumours and carcinogenesis. Directed course in systematic pathology, with specific reference to cardiovascular system, respiratory system, locomotor system and neuropathology.

Physiology 251 (FSG 251)

Module credits	6.00
NQF Level	06
Prerequisites	RAN 100, RFI 110, FSG 161, FSG 162, MTL 180, RAW 180, RAW 182
Contact time	1 practical per week, 4 lectures per week
Language of tuition	Module is presented in English
Department	Physiology
Period of presentation	Quarter 1

Module content

Structure, gas exchange and secretory functions of the lungs; structure, excretory and non-urinary functions of the kidneys, acid-base balance, and skin and body temperature control. Practical work to complement the theory.

Physiology 252 (FSG 252)

Module credits	6.00
NQF Level	06
Prerequisites	RAN 100, RFI 110, FSG 161, FSG 162, RAW 180, RAW 182, MTL 180,

Contact time 1 practical per week, 4 lectures per week

Language of tuition Module is presented in English

Department Physiology

Period of presentation Quarter 2

Module content

Nutrition, digestion and metabolism, hormonal control of body functions, and the reproductive systems. Practical work to complement the theory.

Physiology 261 (FSG 261)

Module credits 6.00

NQF Level 06

Prerequisites PHY 131, CMY 151, ANA 151, ANA 152, ANA 161, ANA 162, FSG 161, FSG 162, FTP 100

Contact time 2 lectures per week

Language of tuition Module is presented in English

Department Physiology

Period of presentation Quarter 3

Module content

Special neuro and muscle physiology.

Physiology 262 (FSG 262)

Module credits 6.00

NQF Level 06

Prerequisites RAN 100, RFI 110, FSG 161, FSG 162, RAW 180, RAW 182, MTL 180

Contact time 3 lectures per week

Language of tuition Module is presented in English

Department Physiology

Period of presentation Quarter 4

Module content

Applied pathophysiology.

Medical microbiology 252 (GMB 252)

Module credits 6.00

NQF Level 06

Prerequisites No prerequisites.

Contact time 2 lectures per week

Language of tuition Module is presented in English

Department Medical Microbiology

Period of presentation Quarter 2

Module content

Infection, immunity and basic bacteriology.

Introduction and basic principles of infection, sterilisation and the immune system. Bacterial cells and the classification of disease-causing bacteria.

Medical microbiology 253 (GMB 253)

Module credits 6.00

NQF Level 06

Prerequisites FLG 211 GS, FLG 212 GS

Contact time 2 lectures per week

Language of tuition Module is presented in English

Department Medical Microbiology

Period of presentation Quarter 3

Module content

Systemic bacteriology.

Commonly occurring bacterial infections and the bacteria that cause them.

Medical microbiology 254 (GMB 254)

Module credits 6.00

NQF Level 06

Prerequisites FLG 211 GS, FLG 212 GS

Contact time 2 lectures per week

Language of tuition Module is presented in English

Department Medical Microbiology

Period of presentation Quarter 4

Module content

Fungi, parasitology and virology.

Commonly occurring fungal, viral and parasite infections and infestations, and the organisms that cause them.

Basic emergency care 286 (GNK 286)

Module credits 5.00

NQF Level 06

Prerequisites (does not apply to the BOH programme) CMY 151,FIL 155,MGW 112,MLB 111,PHY 131,MTL 180,GNK 120,BOK 121,GNK 127,GNK 128,CIL 111 and 121 or AIM 101 or AIM 111 and 121 EOT 110 and 120 or ELH 111 and 112

Contact time 2 other contact sessions per week, 4 practicals per week

Language of tuition Module is presented in English

Department Health Sciences Deans Office

Period of presentation Semester 1 and/or 2

Module content

This practical-orientated module will provide students with training in basic life support, automated external defibrillation, and first aid treatment to the suddenly ill or injured patient. The theoretical content will be offered in an interactive format where students are expected to master the content as self-directed learning. Practical skills will be demonstrated in the skills laboratory and students will get the opportunity to practice the skills under guidance and supervision.

Psychology 210 (SLK 210)

Module credits 20.00

NQF Level 06

Service modules Faculty of Engineering, Built Environment and Information Technology
Faculty of Health Sciences
Faculty of Natural and Agricultural Sciences

Prerequisites SLK 110, SLK 120(GS)

Contact time 2 discussion classes per week, 2 lectures per week

Language of tuition Module is presented in English

Department Psychology

Period of presentation Semester 1

Module content

In this module human development from conception through adolescence to adulthood is discussed with reference to various psychological theories. Incorporated are the developmental changes related to cognitive, physical, emotional and social functioning of the individual and the context of work in adulthood. Traditional and contemporary theories of human development explaining and describing these stages are studied in order to address the key issues related to both childhood and adulthood.

Core modules

Physiotherapy 204 (FTP 204)

Module credits 35.00

NQF Level 06

Contact time 1 web-based period per week, 4 practicals per week, 8 lectures per week, Community Engagement

Language of tuition Module is presented in English

Department Physiotherapy

Period of presentation Year

Module content

The problem-based learning approach to the principles of human movement science manual therapy for soft tissue and electro-biomechanics. This approach is applied by using selected clinical conditions of the thorax, pelvis and hip-joint over the total life spectrum.

The problem-based approach to the treatment of selected clinical conditions of the knee, ankle and foot complex, the pectoral girdle and gleno-humeral joint, the elbow, forearm and wrist and hand complex over the total life-cycle, through the application of the principles of human movement science manual therapy for soft tissue and electro-biomechanic.

Physiotherapy clinical practice 221 (FTP 221)

Module credits 8.00

NQF Level 06

Prerequisites PHY 131, CMY 151, FSG 161, FSG 162, ANA 151 ,FTP 101, ANA 152, SLK 110, ANA 161, ANA 162, CIL 121 or AIM 101 or AIM 111 and 121 or ELH 121 and 122

Contact time 1 lecture per week, 1 other contact session per week

Language of tuition Module is presented in English

Department Physiotherapy

Period of presentation Semester 2

Module content

Study of the epidemiology, prevalence and incidence of selected clinical conditions. Students acquire clinical experience through the treatment of selected clinical conditions in various health care institutions, practices and clinics.

A theoretical and clinical examination will take place after conclusion of the module.

Integrated healthcare leadership 210 (IHL 210)

Module credits 8.00

NQF Level 06

Service modules Faculty of Humanities

Prerequisites IHL 112/2/3, IHL 120 (For Audiology and Speech-Language Pathology students only IHL 120 is applicable)

Contact time 2 lectures per week

Language of tuition Module is presented in English

Department Nursing Science

Period of presentation Semester 1

Module content

Principles of project management. Communication principles. Leadership. Health promotion and education, advocacy and literacy. Counselling for health behaviour change. NB: Only for School of Healthcare Sciences and Speech- Language Pathology and Audiology students.

Curriculum: Year 3

Minimum credits: 155

Fundamental modules

Pharmacology 381 (FAR 381)

Module credits	18.00
NQF Level	07
Service modules	Faculty of Natural and Agricultural Sciences
Prerequisites	FLG 211, FLG 212, FLG 221, FLG 222 GS
Contact time	1 lecture per week, 2 lectures per week
Language of tuition	Module is presented in English
Department	Pharmacology
Period of presentation	Semester 1

Module content

The undergraduate pharmacology module introduces students to general pharmacological principles, routes of administration, pharmacokinetics and pharmacodynamics. Furthermore, disease treatment with relation to disorders of the cardiovascular, inflammatory and autonomic nervous system is discussed, as well as anaesthesia, asthma, diabetes, diuresis, obesity and pain.

Pharmacology 382 (FAR 382)

Module credits	18.00
NQF Level	07
Service modules	Faculty of Natural and Agricultural Sciences
Prerequisites	FAR 381, FLG 211, FLG 212, FLG 221, FLG 222 GS
Contact time	1 lecture per week
Language of tuition	Module is presented in English
Department	Pharmacology
Period of presentation	Semester 2

Module content

Hormones, drugs that act on the histaminergic, serotonergic, and dopaminergic receptors. Pharmacotherapy of diabetes mellitus, schizophrenia, depression, obesity, anxiety, insomnia, gastro-intestinal diseases. Anticoagulants, antimicrobial drugs.

Integrated healthcare leadership 310 (IHL 310)

Module credits	8.00
NQF Level	07

Service modules	Faculty of Humanities
Prerequisites	IHL 111/2/3, IHL 120, IHL 210, IHL 221/2/3/4 (For Audiology and Speech-Language Pathology students only IHL 210 is applicable)
Contact time	2 lectures per week
Language of tuition	Module is presented in English
Department	Nursing Science
Period of presentation	Semester 1

Module content

Community needs assessment. Leadership in community development. Planning and implementation of collaborative community-based interventions. Application of principles of monitoring and evaluation. NB: Only for School of Healthcare Sciences and Department of Speech - Language Pathology and Audiology students.

Integrated healthcare leadership 324 (IHL 324)

Module credits	8.00
NQF Level	07
Prerequisites	IHL 110, IHL 210, IHL 310
Contact time	2 lectures per week
Language of tuition	Module is presented in English
Department	Nursing Science
Period of presentation	Semester 2

Module content

End-of-life care; preventing and managing sexual harassment; giving and receiving feedback; self and time-management; reflexive caring; practice; the International Classification of Functioning, Disability and Health (ICF); working with mid-level workers; leadership management and evidence-based practice; ethics in physiotherapy practice; medico-legal documentation.

Research methodology for healthcare sciences 300 (RHC 300)

Module credits	30.00
NQF Level	07
Service modules	Faculty of Humanities
Prerequisites	IHL 110, IHL 121/2/3/4; (ELH 121 and 122); AIM 111, prerequisites for BA Audiology: ODL 210 and 220; KMP 210 and 220, prerequisites for BA Speech-Language Pathology students: SPP 210 and 220; KMP 210 and KMP 220.
Contact time	2 lectures per week, 2 practicals per week
Language of tuition	Module is presented in English
Department	Nursing Science
Period of presentation	Year

Module content

Concepts of research; research process; research studies appraisal; planning and developing literature review; developing research idea and research question; research principles in designing research proposal; research proposal writing.

Core modules

Physiotherapy 303 (FTP 303)

Module credits 20.00

NQF Level 07

Prerequisites FSG 251, FSG 252, FSG 261, FSG 262, ANP 210, GMB 252, GMB 253, FTP 241, POL 251, FTP 231

Contact time 1 discussion class per week, 2 lectures per week, 2 other contact sessions per week, 3 practicals per week, 3 web-based periods per week

Language of tuition Module is presented in English

Department Physiotherapy

Period of presentation Year

Module content

Theory of comprehensive physiotherapeutic management (prevention, promotion, restoration, and rehabilitation) of notifiable, non-notifiable and infectious conditions.

Diseases of lifestyle, chronic disease, the impact of HIV on disability and on patients with trauma, mental health.

Impact of physical/economic/political/

psychosocial environment on health and well-being, health promotion and development and sports science.

Comprehensive physiotherapy management is applied to infant health, during childhood, adolescent health, women's and men's health, health and disease in middle age and geriatrics.

Physiotherapy clinical practice 304 (FTP 304)

Module credits 45.00

NQF Level 07

Prerequisites FSG 251, FSG 252, FSG 261, FSG 262, ANP 210, GMB 252, GMB 253, FTP 231, FTP 241, POL 251

Contact time 1 discussion class per week, 2 practicals per week, 2 web-based periods per week, 3 lectures per week

Language of tuition Module is presented in English

Department Physiotherapy

Period of presentation Year

Module content

Comprehensive clinical management of patients with communicable and non-communicable diseases and conditions, patients with an impairment or disability as a result of the impact of physical/economic/political and psychosocial environment on health and well-being, health promotion, and development and sports science. Comprehensive clinical management is applied where relevant on infant health, during childhood, adolescence, in women's and men's health, and health and disease in middle age and geriatrics, diseases of lifestyle, chronic disease, impact of HIV on disability, victims of trauma, and/or a mental health condition.

Integrated healthcare leadership 310 (IHL 310)

Module credits	8.00
NQF Level	07
Service modules	Faculty of Humanities
Prerequisites	IHL 111/2/3, IHL 120, IHL 210, IHL 221/2/3/4 (For Audiology and Speech-Language Pathology students only IHL 210 is applicable)
Contact time	2 lectures per week
Language of tuition	Module is presented in English
Department	Nursing Science
Period of presentation	Semester 1

Module content

Community needs assessment. Leadership in community development. Planning and implementation of collaborative community-based interventions. Application of principles of monitoring and evaluation. NB: Only for School of Healthcare Sciences and Department of Speech - Language Pathology and Audiology students.

Curriculum: Final year

Minimum credits: 113

Core modules

Physiotherapy 403 (FTP 403)

Module credits	12.00
NQF Level	08
Prerequisites	RHC 451, RHC 452, FAR 381, FAR 382, FTP 303, FTP 304, POL 300
Contact time	1 discussion class per week, 1 lecture per week, 1 web-based period per week
Language of tuition	Module is presented in English
Department	Physiotherapy
Period of presentation	Year

Module content

Advanced comprehensive physiotherapeutic management of communicable and non-communicable diseases and conditions. This includes diseases of lifestyle, chronic disease, impact of HIV on disability, victims of trauma, and mental health. Impact of physical/economic/political/psychosocial environment of health and well-being, health promotion and development, and sport science. The comprehensive physiotherapeutic management is applied to patients of all ages where relevant: in infant health, childhood, adolescent health, women's and men's health, health and disease in middle age and geriatrics and is based on the epidemiology of disease. The module includes 800 hours clinical experience in a variety of health care scenarios.

Examination period: October/November.

Physiotherapy clinical practice 404 (FTP 404)

Module credits	75.00
NQF Level	08
Prerequisites	RHC 451, RHC 452, FAR 381, FAR 382, FTP 303, FTP 304, POL 300
Contact time	1 other contact session per week, 1 web-based period per week, 2 discussion classes per week
Language of tuition	Module is presented in English
Department	Physiotherapy
Period of presentation	Year

Module content

Comprehensive clinical management of patients with communicable, non-communicable diseases and conditions, patients who have an impairment or disability due to the impact of physical/economic/political/psychosocial environment on health and well-being. Health promotion, and development and sport science. Comprehensive clinical management is applied where relevant to infant health, during childhood, adolescence, in women's health and men's health, and health and disease in middle age and geriatrics, diseases of lifestyle, chronic disease, impact of HIV on disability, victims of trauma, and/or a mental health condition, addressing the determinants of health over the total life span. The module includes 800 hours clinical experience in a variety of health care scenarios. Examination period: October/November.

Integrated healthcare leadership 414 (IHL 414)

Module credits	8.00
NQF Level	08
Prerequisites	IHL 110, IHL 210, IHL 310, IHL 324
Contact time	2 lectures per week, 2 practicals per week
Language of tuition	Module is presented in English
Department	Nursing Science
Period of presentation	Semester 1

Module content

Ethical management of community physiotherapy programmes, including physiotherapy aspects of community-orientated primary health care. Continuing professional development, private practice management and labour law.

Integrated healthcare leadership 424 (IHL 424)

Module credits	8.00
NQF Level	08
Prerequisites	IHL 110, IHL 210, IHL 310, IHL 324
Contact time	2 lectures per week, 2 practicals per week
Language of tuition	Module is presented in English
Department	Nursing Science
Period of presentation	Semester 2

Module content

Ethical management of community physiotherapy programmes, including physiotherapy aspects of community-based primary care. Sustained professional development, private practice management and labour law.

Research in healthcare sciences 400 (RHC 400)

Module credits	10.00
NQF Level	08

Prerequisites	RHC 300
Contact time	1 lecture per week, 1 practical per week
Language of tuition	Module is presented in English
Department	Nursing Science
Period of presentation	Year

Module content

Conducting process of obtaining ethics clearance, data collection, data analysis, research report writing.

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