



# University of Pretoria Yearbook 2022

## BSportSci (10135010)

**Department** Biokinetics and Sports Science

**Minimum duration of study** 3 years

**Total credits** 411

**NQF level** 07

### Programme information

This three-year full-time BSportSci programme includes basic and applied sciences of the human body and provides a pathway towards a BScHons (Biokinetics) or a BScHons (Sports Science). Qualified BSc (Sports Science) students may also either apply for the Postgraduate Certificate in Education or start working in the sporting industry.

### 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 or Life 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.



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- 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.**
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- 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 or Life Sciences APS

NSC/IEB

4

**30**

## Other programme-specific information

Students who obtain a 4 or 5 in the compulsory Academic Literacy Test (TALL) will be exempted from the ELH 121 and ELH 122 modules.

## Examinations and pass requirements

- 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 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 semester/year. A final mark of at least 50% is required to pass.
- 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 opportunities per annum, the standard and supplementary examination. In respect of first-semester modules, the standard examination opportunity is in May/June and the supplementary examination opportunity in July. In respect of second-semester modules, the standard examination opportunity is in October/November and the supplementary examination opportunity in November/December of the same year. Only two examination opportunities per module are allowed. If a student fails a module at the second examination opportunity, the module must be repeated.
- A supplementary examination opportunity in a module is granted to students in the following cases:
  - If a student obtains a final mark of less than 50% in the relevant module at the standard examination opportunity and thus fails.
  - If a student does not obtain the subminimum in the examination, as required for a specific module.
  - If a student does not sit the examination in a module at the standard examination opportunity due to illness, official UP recognised sports participation or extraordinary circumstances.
  - If a student fails a module at the standard examination opportunity, the examination mark obtained in the relevant module at the supplementary examination opportunity will be calculated as the final mark. The marks obtained with continuous evaluation during the course of the 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.

- If a student could not sit the examination in a module at the standard examination opportunity due to illness, official UP recognised sports participation or extraordinary circumstances, 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.
- A student requiring a limited number of 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

### Admission to the second year of study

- To be admitted to the second year of study, a student must pass PRC 100, EXE 110, FSG 110, MTL 180, ANA 123, EXE 120 and FSG 120.
- Modules can only be repeated if they can be accommodated within the existing examination timetable.
- Students who are repeating the first year of study, retain credit for examination modules passed.

### Admission to the third year of study

- To be admitted to the third year of study, a student must have passed all the first and second-year modules.
- Students who are repeating the second year of study, retain credit for examination modules passed.

### Academic exclusion

- A student following the BSportSci programme will only be allowed one opportunity to repeat a year of study.
- A student who does not comply with the abovementioned requirements but nevertheless wishes to be admitted to the School, may request the Dean/Chairperson in writing to consider his or her application for readmission in accordance with the prescribed procedure.

## Pass with distinction

### BSportSci degree

The degree is conferred with distinction on a student who obtains a cumulative average of at least 75% for all modules over the three years of study (not rounded).



## Curriculum: Year 1

Minimum credits: 140

### 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.

## 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 Sciences 122 (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)\**

## 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

## Core modules

### Introduction to human anatomy 123 (ANA 123)

**Module credits** 8.00

**NQF Level** 05

**Prerequisites** No prerequisites.

**Contact time** 2 lectures per week

**Language of tuition** Module is presented in English

**Department** Anatomy

**Period of presentation** Year

#### Module content

\*Closed - requires departmental selection

This module serves as the foundation of the necessary knowledge required to understand human anatomy as well as facilitate the students' understanding in future applied anatomy modules. This module covers the following aspects of human anatomy: anatomical terminology, osteology, arthrology, the muscular system, the nervous system, the cardiovascular system and the respiratory system.

### Sports injuries I 110 (EXE 110)

**Module credits** 12.00

**NQF Level** 05

**Prerequisites** No prerequisites.

**Contact time** 3 lectures per week

**Language of tuition** Module is presented in English

**Department** Biokinetics and Sports Science

**Period of presentation** Semester 1

#### Module content

\*Closed - requires departmental selection

This module serves as an introduction to the fundamental concepts related to sports injuries.

### Research I 111 (EXE 111)

**Module credits** 12.00

**NQF Level** 05

**Prerequisites** No prerequisites.

**Contact time** 3 lectures per week





**Language of tuition** Module is presented in English

**Department** Biokinetics and Sports Science

**Period of presentation** Semester 1

### Module content

\*Closed – requires departmental selection

This module serves an introduction to research and information technology in Sport and Exercise which include computer skills; research techniques; library services and functions; literature searches; referencing techniques; plagiarism as well as ethics and theories in research. The content not only covers the steps of the research process but also explains the researcher's role in the research process.

## Motor learning and development I 120 (EXE 120)

**Module credits** 12.00

**NQF Level** 05

**Contact time** 3 lectures per week

**Language of tuition** Module is presented in English

**Department** Biokinetics and Sports Science

**Period of presentation** Semester 2

### Module content

\*Closed – requires departmental selection

The module focuses on a study, critique and analysis of the development of movement skills in humans from infancy to older adulthood, and on an examination of the way different motor, cognitive and social abilities affect how, when and why an individual learns motor skills. Students will gain a basic understanding of the fundamental concepts related to motor learning and motor development, and will be provided with a solid background regarding the fundamental motor skills developed during childhood and adolescence.

## Exercise science programme development 121 (EXE 121)

**Module credits** 12.00

**NQF Level** 05

**Contact time** 3 lectures per week

**Language of tuition** Module is presented in English

**Department** Biokinetics and Sports Science

**Period of presentation** Semester 2



## Module content

\*Closed – requires departmental selection

This module focuses on the basic principles of exercise programme design. Students will gain a basic understanding of the fundamental concepts related to exercise and will be provided with a solid background regarding the development of an exercise program. Programme development aspects for cardiorespiratory exercise, weight management and body composition programs, stretching and flexibility training, strength and endurance training, speed development and plyometrics, balance and proprioception programs, exercise selection, and periodisation are included.

## Measurement and evaluation I 122 (EXE 122)

<b>Module credits</b>	12.00
<b>NQF Level</b>	05
<b>Contact time</b>	3 lectures per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Biokinetics and Sports Science
<b>Period of presentation</b>	Semester 2

## Module content

\*Closed – requires departmental selection

This module introduces students to physical fitness assessment, fitness test administration, exercise testing principles and procedures, assessment of fitness components, test quality in exercise science, evaluating and interpreting test data.

## Physiology 110 (FSG 110)

<b>Module credits</b>	6.00
<b>NQF Level</b>	05
<b>Service modules</b>	Faculty of Humanities Faculty of Natural and Agricultural Sciences
<b>Prerequisites</b>	No prerequisites.
<b>Contact time</b>	3 lectures per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Physiology
<b>Period of presentation</b>	Semester 1

## Module content

Introduction (terminology and anatomical orientation); chemical principles; cytology and histology; neuro-physiology and the senses; haematology and body fluids; cardiovascular system.

## Physiology 120 (FSG 120)

<b>Module credits</b>	6.00
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<b>NQF Level</b>	05
<b>Service modules</b>	Faculty of Humanities Faculty of Natural and Agricultural Sciences
<b>Prerequisites</b>	FSG 110
<b>Contact time</b>	3 lectures per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Physiology
<b>Period of presentation</b>	Semester 2

### Module content

Respiratory system; nutrition; digestion and metabolism; kidneys and acid-base equilibrium; endocrinology; reproduction physiology and reproduction; skin and body temperatures.

## Medical terminology 180 (MTL 180)

<b>Module credits</b>	12.00
<b>NQF Level</b>	05
<b>Service modules</b>	Faculty of Health Sciences Faculty of Natural and Agricultural Sciences Faculty of Veterinary Science
<b>Prerequisites</b>	No prerequisites.
<b>Contact time</b>	2 lectures per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Ancient and Modern Languages and Cultures
<b>Period of presentation</b>	Semester 1

### Module content

The acquisition of a basic medical orientated vocabulary compiled from Latin and Greek stem forms combined with prefixes and suffixes derived from those languages. The manner in which the meanings of medical terms can be determined by analysing the terms into their recognisable meaningful constituent parts, is taught and exercised. The functional use of medical terms in context as practical outcome of terminological application is continually attended to.

## Physics for biology students 131 (PHY 131)

<b>Module credits</b>	16.00
<b>NQF Level</b>	05
<b>Service modules</b>	Faculty of Education Faculty of Health Sciences Faculty of Veterinary Science
<b>Prerequisites</b>	A candidate must have passed Mathematics with at least 60% in the Grade 12 examination



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<b>Contact time</b>	1 discussion class per week, 1 practical per week, 4 lectures per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Physics
<b>Period of presentation</b>	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.

### Sports practical 100 (PRC 100)

<b>Module credits</b>	12.00
<b>NQF Level</b>	05
<b>Contact time</b>	2 practicals per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Biokinetics and Sports Science
<b>Period of presentation</b>	Year

#### Module content

\*Closed – requires departmental selection.

This module will serve as the foundation for swimming, netball, athletics and gymnasium movement skill acquisition. The module serves as exposure to and experience in the movement skills practiced in swimming, netball, athletics and gymnasium. This will aid the Sport Scientist and Biokineticist to better understand and condition clients and patients practicing these sports. Sports-specific skills, team situation; rules and regulations, refereeing; game analysis; coaching.



## Curriculum: Year 2

Minimum credits: 141

### Core modules

#### Motor learning and development II 221 (EXE 221)

<b>Module credits</b>	16.00
<b>NQF Level</b>	06
<b>Prerequisites</b>	EXE 120
<b>Contact time</b>	3 lectures per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Biokinetics and Sports Science
<b>Period of presentation</b>	Semester 2

#### Module content

\*Closed – requires departmental selection

An analysis and critique of how motor learning is affected by adulthood and aging and how to design appropriate programmes to maximise motor skill acquisition.

#### Sports injuries II 222 (EXE 222)

<b>Module credits</b>	16.00
<b>NQF Level</b>	06
<b>Prerequisites</b>	EXE 110
<b>Contact time</b>	3 lectures per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Biokinetics and Sports Science
<b>Period of presentation</b>	Semester 2

#### Module content

\*Closed – requires departmental selection

The module aims to further the knowledge and application of fundamentals concepts related to sports injuries.

#### Nutrition for exercise and sport 223 (EXE 223)

<b>Module credits</b>	16.00
<b>NQF Level</b>	06
<b>Contact time</b>	2 lectures per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Human Nutrition



**Period of presentation** Semester 2

### Module content

\*Closed – requires departmental selection

Understanding the basic principles of substrate location and utilization in an exercise and sport-related context, as well as the application of nutrition recommendations for exercise and sport.

## 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.

## Sports practical II 201 (PRC 201)

**Module credits** 16.00

**NQF Level** 06

**Prerequisites** PRC 100

**Contact time** 2 practicals per week

**Language of tuition** Module is presented in English

**Department** Biokinetics and Sports Science

**Period of presentation** Year

### Module content

\*Closed - requires departmental selection

This module will serve as the foundation for rugby, hockey, cricket and tennis movement skill acquisition. This module serves as exposure to and experience in the movement skills practiced in rugby, hockey, cricket and tennis. This will aid the Sport Scientist and Biokineticist to better understand and condition clients and patients practicing these sports.



### Exercise physiology I 212 (SMC 212)

<b>Module credits</b>	14.00
<b>NQF Level</b>	06
<b>Contact time</b>	3 lectures per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Biokinetics and Sports Science
<b>Period of presentation</b>	Semester 1

#### Module content

\*Closed – requires departmental selection

Homeostasis, thermoregulation, bone and connective tissue adaptations, muscle adaptations, and muscle force development.

### Biomechanics I 213 (SMC 213)

<b>Module credits</b>	16.00
<b>NQF Level</b>	06
<b>Contact time</b>	3 lectures per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Biokinetics and Sports Science
<b>Period of presentation</b>	Semester 1

#### Module content

\*Closed – requires departmental selection

This module focuses on the biomechanical principles involved in human movement and sports activities. It comprises primarily of the study of linear and angular kinematics and kinetics of human motion and introduces the student to various applications and measurement techniques used in biomechanics.

### Human anatomy II 214 (SMC 214)

<b>Module credits</b>	16.00
<b>NQF Level</b>	06
<b>Prerequisites</b>	ANA 123
<b>Contact time</b>	3 lectures per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Biokinetics and Sports Science
<b>Period of presentation</b>	Semester 1



## Module content

\*Closed – requires departmental selection

This module builds on the knowledge attained in ANA 123 and involves comprehensive study of the muscular system (origin, insertion, action and nerve supply of the muscles of the human body) and the nervous system.

## Exercise physiology II 221 (SMC 221)

**Module credits** 14.00

**NQF Level** 06

**Prerequisites** SMC 212

**Contact time** 3 lectures per week

**Language of tuition** Module is presented in English

**Department** Biokinetics and Sports Science

**Period of presentation** Semester 2

## Module content

\*Closed – requires departmental selection

Exercise metabolism, cardiovascular adaptations, respiratory adaptations, and water, electrolyte and acid-base balance responses to exercise.

## Event and facility management 211 (SMS 211)

**Module credits** 12.00

**NQF Level** 06

**Contact time** 2 lectures per week

**Language of tuition** Module is presented in English

**Department** Biokinetics and Sports Science

**Period of presentation** Semester 2

## Module content

\*Closed – requires departmental selection

This module will provide the basic knowledge of management (planning, leading, organising and controlling) of sporting and health promotion events and exercise facilities.





## Curriculum: Final year

Minimum credits: 130

### Core modules

#### Exercise science programme development II 310 (BGN 310)

<b>Module credits</b>	15.00
<b>NQF Level</b>	07
<b>Contact time</b>	1 lecture per week, 1 practical per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Biokinetics and Sports Science
<b>Period of presentation</b>	Semester 1

#### Module content

\*Closed – requires departmental selection

The module focuses on the practical application of the fundamental concepts related to exercise as well as principles for exercise programme design.

#### Measurement and evaluation II 320 (BGN 320)

<b>Module credits</b>	15.00
<b>NQF Level</b>	07
<b>Contact time</b>	1 lecture per week, 1 practical per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Biokinetics and Sports Science
<b>Period of presentation</b>	Semester 1

#### Module content

\*Closed – requires departmental selection

This module includes the theoretical study and practical demonstration of exercise tests for health-related and sport-related physical fitness components, as well as exercise test data interpretation, evaluation and reporting.

#### Biomechanics II 321 (BGN 321)

<b>Module credits</b>	15.00
<b>NQF Level</b>	07
<b>Contact time</b>	1 practical per week, 2 lectures per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Biokinetics and Sports Science
<b>Period of presentation</b>	Semester 2



### Module content

\*Closed – requires departmental selection

This unit involves the application of biomechanical principles to analyse human motion using various biomechanical methods. Students will learn to collect and analyse two-dimensional video and force platform data, with a focus on gait analysis and exercise training techniques.

### Research II 301 (EXE 301)

<b>Module credits</b>	20.00
<b>NQF Level</b>	07
<b>Prerequisites</b>	EXE 111
<b>Contact time</b>	2 lectures per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Biokinetics and Sports Science
<b>Period of presentation</b>	Year

### Module content

\*Closed – requires departmental selection

In this module the focus will be on fundamental quantitative or experimental research methodology, and statistics. The student will have the opportunity to demonstrate an understanding of the module through the medium of a written theoretical examination and a research proposal.

### Sports injuries III 310 (EXE 310)

<b>Module credits</b>	15.00
<b>NQF Level</b>	07
<b>Prerequisites</b>	EXE 222
<b>Contact time</b>	3 lectures per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Biokinetics and Sports Science
<b>Period of presentation</b>	Semester 1

### Module content

\*Closed – requires departmental selection

Theoretical knowledge will be gained in the understanding of region specific sport injuries. This includes the mechanism of injury, type of injury, assessment and management of the sport injury.

### Sports psychology 212 (MBK 212)

<b>Module credits</b>	10.00
<b>NQF Level</b>	07
<b>Contact time</b>	2 lectures per week



**Language of tuition** Module is presented in English

**Department** Biokinetics and Sports Science

**Period of presentation** Semester 1

### Module content

\*Closed – requires departmental selection

In this module students will form an understanding of the multi-dimensional nature of sport psychology, with specific reference to Performance Termination (PT), Performance Dysfunction (PDy), Performance Impairment (PI) and Performance Development (PD) as portrayed in the Multi-Level Classification System for Sport Psychology (MCS-SP). Through studying the MCS-SP students will understand the role of sport psychologists in the sport context, how sport psychology focuses on the psychological well-being of athletes within sport organizations, as well as the psychological aspects that contribute to excellence in sport performance.

## Exercise science practice 301 (PRC 301)

**Module credits** 20.00

**NQF Level** 07

**Contact time** 2 practicals per week

**Language of tuition** Module is presented in English

**Department** Biokinetics and Sports Science

**Period of presentation** Year

### Module content

\*Closed – requires departmental selection

This module serves as the platform for supervised practical training and application in exercise testing and interpretation for sport-related physical fitness components, exercise programme design and implementation for sport-related physical fitness, and sport science work experience. This module requires the student to have accumulated 45 hours of Sport First aid.

## Exercise physiology III 320 (SMC 320)

**Module credits** 20.00

**NQF Level** 07

**Prerequisites** SMC 221

**Contact time** 1 tutorial per week, 2 lectures per week

**Language of tuition** Module is presented in English

**Department** Biokinetics and Sports Science

**Period of presentation** Semester 2

### Module content

\*Closed – requires departmental selection.

Allotaxis, energy dynamics, fatigue, immune system considerations, muscle hypertrophy, DOMS, NSAIDs, environmental physiology.



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