



# University of Pretoria Yearbook 2017

## BSportSci (10135010)

**Duration of study** 3 years

**Total credits** 409

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### 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

- 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 Grade 12 certificate 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; and a candidate who is a graduate of another faculty at the University of Pretoria.
- Life Orientation is excluded in the calculation of the APS.
- Grade 11 final examination results, the NBT results as well as a Value-added Questionnaire will be used for the provisional admission of prospective students.
- Admission to Health Sciences programmes is subject to a selection process.
- For selection purposes the sum of the results in six subjects, including English, Mathematics and Physical Science or Life Sciences, is calculated.
- Candidates, please note that your APS may not drop with more than two points in your final school examination results in order to maintain your provisional admission.
- PLEASE NOTE that compliance with the minimum admission requirements does not necessarily guarantee admission to any programme in this Faculty.
- Selection queries may be directed to [healthapplications@up.ac.za](mailto:healthapplications@up.ac.za).

Minimum requirements												
Achievement level												
English				Mathematics				Physical Science or Life Sciences				APS
NSC/IEB	HIGCSE	AS-Level	A-Level	NSC/IEB	HIGCSE	AS-Level	A-Level	NSC/IEB	HIGCSE	AS-Level	A-Level	
5	3	C	C	5	3	C	C	5	3	C	C	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 Regulations, no minimum year or semester mark is needed for admission to the examination, and all registered students are admitted to the examination automatically.
- 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 first and second examination. In respect of first-semester modules, the first examination opportunity is in May/June and the second examination opportunity in July. In respect of second-semester modules, the first examination opportunity is in October/November and the second 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 second 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 first 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 first examination opportunity due to illness, official UP recognised sports participation or extraordinary circumstances.
- If a student fails a module at the first examination opportunity, the examination mark obtained in the relevant module at the second 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 second 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 first 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 second 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 special 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**

- i. A student following the BSportSci programme will only be allowed one opportunity to repeat a year of study.
- ii. 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.



## Curriculum: Year 1

Minimum credits: 138

### Fundamental modules

#### Academic information management 101 (AIM 101)

**Module credits** 6.00

**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  
Faculty of Veterinary Science

**Prerequisites** No prerequisites.

**Contact time** 2 lectures per week

**Language of tuition** Separate classes for Afrikaans and English

**Academic organisation** Information Science

**Period of presentation** Semester 1

#### Module content

Find, evaluate, process, manage and present information resources for academic purposes using appropriate technology. 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 information management 111 (AIM 111)

**Module credits** 4.00

**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

**Prerequisites** No prerequisites.

**Contact time** MAMELODI, 2 lectures per week

**Language of tuition** Separate classes for Afrikaans and English

**Academic organisation** 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

**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  
Faculty of Veterinary Science

**Prerequisites** No prerequisites.

**Contact time** 2 lectures per week, MAMELODI

**Language of tuition** Separate classes for Afrikaans and English

**Academic organisation** 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 (BCur, BDietetics, BOH, BOccTher, BRad and BPhyST) 121 (ELH 121)**

**Module credits** 6.00

**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

**Academic organisation** 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)

<b>Module credits</b>	6.00
<b>Service modules</b>	Faculty of Health Sciences
<b>Prerequisites</b>	No prerequisites.
<b>Contact time</b>	2 lectures per week, 1 discussion class per week
<b>Language of tuition</b>	Module is presented in English
<b>Academic organisation</b>	Unit for Academic Literacy
<b>Period of presentation</b>	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)

<b>Module credits</b>	0.00
<b>Language of tuition</b>	Afrikaans and English is used in one class
<b>Academic organisation</b>	Health Sciences Dean's Office
<b>Period of presentation</b>	Year

## Core modules

### Physiology 110 (FSG 110)

<b>Module credits</b>	6.00
<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>	Separate classes for Afrikaans and English
<b>Academic organisation</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
<b>Service modules</b>	Faculty of Humanities Faculty of Natural and Agricultural Sciences



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<b>Prerequisites</b>	FSG 110
<b>Contact time</b>	3 lectures per week
<b>Language of tuition</b>	Separate classes for Afrikaans and English
<b>Academic organisation</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>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>	Afrikaans and English is used in one class
<b>Academic organisation</b>	Ancient Languages and Cultures
<b>Period of presentation</b>	Semester 1 and Semester 2

#### 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>Service modules</b>	Faculty of Education Faculty of Health Sciences Faculty of Veterinary Science
<b>Prerequisites</b>	Refer to Regulation 1.2: A candidate must have passed Mathematics with at least 50% in the Grade 12 examination
<b>Contact time</b>	1 practical per week, 4 lectures per week, 1 discussion class per week
<b>Language of tuition</b>	Separate classes for Afrikaans and English
<b>Academic organisation</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 injuries I 110 (EXE 110)

**Module credits** 12.00

**Contact time** 3 lectures per week

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

**Academic organisation** 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

**Contact time** 3 lectures per week

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

**Academic organisation** 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

**Contact time** 3 lectures per week

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

**Academic organisation** 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)

<b>Module credits</b>	12.00
<b>Contact time</b>	3 lectures per week
<b>Language of tuition</b>	Module is presented in English
<b>Academic organisation</b>	Biokinetics and Sports Science
<b>Period of presentation</b>	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.

## Sports practical 100 (PRC 100)

<b>Module credits</b>	12.00
<b>Contact time</b>	2 practicals per week
<b>Language of tuition</b>	Module is presented in English
<b>Academic organisation</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.

## Introduction to human anatomy 123 (ANA 123)

<b>Module credits</b>	8.00
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**Contact time** 2 lectures per week

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

**Academic organisation** 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.

## **Measurement and evaluation I 122 (EXE 122)**

**Module credits** 12.00

**Contact time** 3 lectures per week

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

**Academic organisation** Sport and Leisure Studies

**Period of presentation** 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.



## Curriculum: Year 2

Minimum credits: 141

### Core modules

#### Basic emergency care 286 (GNK 286)

**Module credits** 5.00

**Prerequisites** 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** 8 practicals per week, 1 other contact session per week

**Language of tuition** Separate classes for Afrikaans and English

**Academic organisation** Health Sciences Dean's Office

**Period of presentation** Semester 1 and/or 2

#### Module content

Theory and practical training in basic emergency care.

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

**Module credits** 16.00

**Prerequisites** EXE 120

**Contact time** 3 lectures per week

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

**Academic organisation** Biokinetics and Sports Science

**Period of presentation** 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)

**Module credits** 16.00

**Prerequisites** EXE 110

**Contact time** 3 lectures per week

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

**Academic organisation** Biokinetics and Sports Science

**Period of presentation** 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>Contact time</b>	3 lectures per week
<b>Language of tuition</b>	Module is presented in English
<b>Academic organisation</b>	Human Nutrition
<b>Period of presentation</b>	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.

## Sports practical II 201 (PRC 201)

<b>Module credits</b>	16.00
<b>Prerequisites</b>	PRC 100
<b>Contact time</b>	2 practicals per week
<b>Language of tuition</b>	Module is presented in English
<b>Academic organisation</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 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>Contact time</b>	3 lectures per week
<b>Language of tuition</b>	Module is presented in English
<b>Academic organisation</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)

**Module credits** 16.00

**Contact time** 3 lectures per week

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

**Academic organisation** Biokinetics and Sports Science

**Period of presentation** 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.

## Exercise physiology II 221 (SMC 221)

**Module credits** 14.00

**Prerequisites** SMC 212

**Contact time** 3 lectures per week

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

**Academic organisation** 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

**Contact time** 2 lectures per week

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

**Academic organisation** Sport and Leisure Studies

**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

#### Biomechanics II 321 (BGN 321)

<b>Module credits</b>	15.00
<b>Prerequisites</b>	No prerequisites.
<b>Contact time</b>	2 lectures per week, 1 practical per week
<b>Language of tuition</b>	Module is presented in English
<b>Academic organisation</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.

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

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

#### Module content

\*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>Contact time</b>	1 lecture per week, 1 practical per week
<b>Language of tuition</b>	Module is presented in English
<b>Academic organisation</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.

## Research II 301 (EXE 301)

<b>Module credits</b>	20.00
<b>Prerequisites</b>	EXE 111
<b>Contact time</b>	2 lectures per week
<b>Language of tuition</b>	Module is presented in English
<b>Academic organisation</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>Prerequisites</b>	EXE 222
<b>Contact time</b>	3 lectures per week
<b>Language of tuition</b>	Module is presented in English
<b>Academic organisation</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.

## Exercise science practice 301 (PRC 301)

<b>Module credits</b>	20.00
<b>Contact time</b>	2 practicals per week
<b>Language of tuition</b>	Module is presented in English
<b>Academic organisation</b>	Biokinetics and Sports Science
<b>Period of presentation</b>	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)

<b>Module credits</b>	20.00
<b>Prerequisites</b>	SMC 221
<b>Contact time</b>	1 tutorial per week, 2 lectures per week
<b>Language of tuition</b>	Module is presented in English
<b>Academic organisation</b>	Biokinetics and Sports Science
<b>Period of presentation</b>	Semester 2

## Module content

\*Closed – requires departmental selection.

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

## Sports psychology 212 (MBK 212)

<b>Module credits</b>	10.00
<b>Contact time</b>	2 lectures per week
<b>Language of tuition</b>	Module is presented in English
<b>Academic organisation</b>	Sport and Leisure Studies
<b>Period of presentation</b>	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.

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.