University of Pretoria Yearbook 2020

BSc Medical Sciences (02133407)

Minimum duration of study	3 years
Total credits	430
NQF level	07

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 Admission Point Score (APS).
- Grade 11 results are used for the conditional admission of prospective students. Final admission is based on the Grade 12 results.

Minimum requirements Achievement level English Home Language or English First Additional Language		**Mathematics**		**Physical Science**		**APS**
NSC/IEB	AS Level	NSC/IEB	AS Level	NSC/IEB	AS Level	
5	C	5	C	5	C	**32**

* Cambridge A level candidates who obtained at least a D in the required subjects, will be considered for admission. International Baccalaureate (IB) HL candidates who obtained at least a 4 in the required subjects, will be considered for admission.

Candidates who do not comply with the minimum admission requirements for BSc (Medical Sciences), may be considered for admission to the BSc – Extended programme -- Biological and Agricultural Sciences. The BSc – Extended programme takes a year longer than the normal programme to complete.

BSc – Extended Programme – Biological and Agricultural Sciences

Minimum requirements Achievement level English Home Language or English First Additional Language		**Mathematics**		**Physical Science**		**APS**
NSC/IEB	AS Level	NSC/IEB	AS Level	NSC/IEB	AS Level	

4	D	4	D	4	D	**26**

Other programme-specific information

A student must pass all the minimum prescribed and elective module credits as set out at the end of each year within a programme as well as the total required credits to comply with the particular degree programme. Please refer to the curricula of the respective programmes. At least 144 credits must be obtained at 300-/400-level, or otherwise as indicated by curriculum. The minimum module credits needed to comply with degree requirements is set out at the end of each study programme. Subject to the programmes as indicated a maximum of 150 credits will be recognised at 100-level. A student may, in consultation with the relevant head of department and subject to the permission by the Dean, select or replace prescribed module credits not indicated in BSc three-year study programmes to the equivalent of a maximum of 36 module credits.

It is important that the total number of prescribed module credits is completed during the course of the study programme. The Dean may, on the recommendation of the relevant head of department, approve deviations in this regard. Subject to the programmes as indicated in the respective curricula, a student may not register for more than 75 module credits per semester at first-year level subject to permission by the Dean. A student may be permitted to register for up to 80 module credits in a the first semester during the first year provided that he or she obtained a final mark of no less than 70% for grade 12 Mathematics and achieved an APS of 34 or more in the NSC.

Students who are already in possession of a bachelor’s degree, will not receive credit for modules of which the content overlap with modules from the degree that was already conferred. Credits will not be considered for more than half the credits passed previously for an uncompleted degree. No credits at the final-year or 300- and 400-level will be granted.

The Dean may, on the recommendation of the programme manager, approve deviations with regard to the composition of the study programme.

Please note: Where elective modules are not specified, these may be chosen from any modules appearing in the list of modules.

It remains the student’s responsibility to acertain, prior to registration, whether they comply with the prerequisites of the modules they want to register for.

The prerequisites are listed in the Alphabetical list of modules.

Promotion to next study year

A student will be promoted to the following year of study if he or she passed 100 credits of the prescribed credits for a year of study, unless the Dean on the recommendation of the relevant head of department decides otherwise. A student who does not comply with the requirements for promotion to the following year of study, retains the credit for the modules already passed and may be admitted by the Dean, on recommendation of the relevant head of department, to modules of the following year of study to a maximum of 48 credits, provided that it will fit in with both the lecture and examination timetable.

General promotion requirements in the faculty

All students whose academic progress is not acceptable can be suspended from further studies.

- A student who is excluded from further studies in terms of the stipulations of the abovementioned regulations, will be notified in writing by the Dean or Admissions Committee at the end of the relevant semester.
- A student who has been excluded from further studies may apply in writing to the Admissions Committee of the Faculty of Natural and Agricultural Sciences for re-admission.
- Should the student be re-admitted by the Admissions Committee, strict conditions will be set which the student must comply with in order to proceed with his/her studies.
- Should the student not be re-admitted to further studies by the Admissions Committee, he/she will be informed in writing.
- Students who are not re-admitted by the Admissions Committee have the right to appeal to the Senate Appeals Committee.
- Any decision taken by the Senate Appeals Committee is final.

Pass with distinction

A student obtains his or her degree with distinction if all prescribed modules at 300-level (or higher) are passed in one academic year with a weighted average of at least 75%, and obtain at least a subminimum of 65% in each of the relevant modules.

Curriculum: Year 1

Minimum credits: 142

Fundamental = 12
Core = 130

Additional information:

- Students who do not qualify for AIM 102 must register for AIM 111 and AIM 121.
- Students intend applying for MBChB, or BChD selection, have to enrol for MGW 112(6) and MTL 180(12) with the understanding that they defer doing WTW 134 in the first semester, however, should they not be selected and want to continue with a BSc programme, WTW 165 must be taken in the second semester of the first year.
- **Please note:** Students who have not passed all the first year, first-semester modules in BSc MedSci are excluded from continuing with BSc MedSci in the second semester and need to change to another BSc programme.

Fundamental modules

Academic information management 102 (AIM 102) - Credits: 6.00
Academic information management 111 (AIM 111) - Credits: 4.00
Academic information management 121 (AIM 121) - Credits: 4.00
Language and study skills 110 (LST 110) - Credits: 6.00
Academic orientation 102 (UPO 102) - Credits: 0.00

Core modules

Introduction: Human anatomy and embryology 121 (ANA 121) - Credits: 4.00
Human osteology 122 (ANA 122) - Credits: 4.00
Basic human histology 126 (ANA 126) - Credits: 4.00
Biometry 120 (BME 120) - Credits: 16.00
General chemistry 117 (CMY 117) - Credits: 16.00
General chemistry 127 (CMY 127) - Credits: 16.00
Science and world views 155 (FIL 155) - Credits: 6.00
Introductory genetics 161 (GTS 161) - Credits: 8.00
Introduction to microbiology 161 (MBY 161) - Credits: 8.00
Molecular and cell biology 111 (MLB 111) - Credits: 16.00
Physics for biology students 131 (PHY 131) - Credits: 16.00
Mathematics 134 (WTW 134) - Credits: 16.00
Mathematics 165 (WTW 165) - Credits: 16.00

Curriculum: Year 2

Minimum credits: 144

Core modules = 96
Elective modules = 48

Additional information:

- **FLG option:** 48 credits, GTS option: 48 credits, FAR option: same as FLG option
- **ANA + FLG option:** First semester FLG 211 (12) and FLG 212 (12) second semester FLG 221 (12) and FLG 222 (12)
- **ANA + GTS option:** First semester GTS 251 (12) and MBY 251 (12), second semester GTS 261 (12) and MBY 261 (12)
- **ANA + FLG/FAR option only in Final year:** Same as FLG option

Core modules

Human cell and developmental biology 214 (ANA 214) - Credits: 12.00
Paleoanthropology 215 (ANA 215) - Credits: 12.00
Human histology 226 (ANA 226) - Credits: 12.00
Human anatomy Part 1 247 (ANA 247) - Credits: 12.00
Introduction to proteins and enzymes 251 (BCM 251) - Credits: 12.00
Carbohydrate metabolism 252 (BCM 252) - Credits: 12.00
Lipid and nitrogen metabolism 261 (BCM 261) - Credits: 12.00
Biochemical principles of nutrition and toxicology 262 (BCM 262) - Credits: 12.00

Elective modules

Introductory and neurophysiology 211 (FLG 211) - Credits: 12.00
Circulatory physiology 212 (FLG 212) - Credits: 12.00
Lung and renal physiology, acid-base balance and temperature 221 (FLG 221) - Credits: 12.00
Digestion, endocrinology and reproductive systems 222 (FLG 222) - Credits: 12.00
Molecular genetics 251 (GTS 251) - Credits: 12.00
Genetic diversity and evolution 261 (GTS 261) - Credits: 12.00
Bacteriology 251 (MBY 251) - Credits: 12.00
Mycology 261 (MBY 261) - Credits: 12.00

Curriculum: Final year

Minimum credits: 144

Core modules = 72
Elective modules = 72

Additional information:
Elective credits:

- **FLG option:** 72 credits, GTS option: 72 credits, FLG/FAR option: 72 credits
- **ANA + FLG option:** First semester FLG 330 (18) and FLG 327 (18), second semester FLG 331 (18) and FLG 332 (18)
- **ANA+ GTS option:** First semester GTS 351 (18) and GTS 354 (18), second semester GTS 367 (18) and GTS 368 (18)
- **ANA+ FLG/FAR option:** First semester FLG 330 (18) and FAR 381 (18), second semester FLG 331 (18) or FLG 332 (18) and FAR 382 (18)

Core modules

Forensic anthropology 315 (ANA 315) - Credits: 18.00
Cell and tissue techniques 316 (ANA 316) - Credits: 18.00
Human cell and developmental biology 324 (ANA 324) - Credits: 18.00
Human anatomy Part 2 347 (ANA 347) - Credits: 18.00

Elective modules

Pharmacology 381 (FAR 381) - Credits: 18.00
Pharmacology 382 (FAR 382) - Credits: 18.00
Higher neurological functions 327 (FLG 327) - Credits: 18.00
Cellular and developmental physiology 330 (FLG 330) - Credits: 18.00
Exercise and nutrition science 331 (FLG 331) - Credits: 18.00
Applied and pathophysiology 332 (FLG 332) - Credits: 18.00
Eukaryotic gene control and development 351 (GTS 351) - Credits: 18.00
Genome evolution and phylogenetics 354 (GTS 354) - Credits: 18.00
Population and evolutionary genetics 367 (GTS 367) - Credits: 18.00
Genetics in human health 368 (GTS 368) - Credits: 18.00

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.