

Medicine and Health Sciences

Academic programmes
and faculty information

Calendar, Part 12

2022



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Accuracy, liability and changes

- Stellenbosch University has taken reasonable care to ensure that the information provided in the Calendar parts is as accurate and complete as possible.
- Take note, however, that the University's Council and Senate accept no liability for any incorrect information in the Calendar parts.
- The University reserves the right to change information in the Calendar parts at any time when necessary.

Please note that the information in this Calendar part, and also in the other Calendar parts, is subject to change, as and when necessary, for as long as uncertainty regarding the Covid-19 situation persists.

The division of the Calendar

- The Calendar is divided into 13 parts.
- Part 1, 2 and 3 of the Calendar contain general information applicable to all students. Make sure that you understand all provisions in Part 1 (General) of the Calendar that are applicable to you.
- Part 4 to 13 of the Calendar are the Faculty Calendar parts.

Part	Calendar
Part 1	General
Part 2	Bursaries and Loans
Part 3	Student Fees
Part 4	Arts and Social Sciences
Part 5	Science
Part 6	Education
Part 7	AgriSciences
Part 8	Law
Part 9	Theology
Part 10	Economic and Management Sciences
Part 11	Engineering
Part 12	Medicine and Health Sciences
Part 13	Military Science

Availability of the Calendar parts

- The electronic versions of the Calendar parts are available at www.sun.ac.za/Calendar.
- Part 1 to 12 are available in both English and Afrikaans. Military Science (Part 13) is only available in English.

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How to use this Calendar Part

This section gives you guidelines for finding particular information in the different chapters in this Calendar part. Consult the table of contents for the page numbers of the chapters referred to below.

1. Where to find information

1.1 Prospective undergraduate students

- General Information chapter contains information about:
 - The history, structure and functions of the Faculty;
 - Communication with the Faculty and the University, which includes an explanation of the concept “student number” as well as relevant contact details where you can refer important enquiries to; and
 - Language at the University.
- Undergraduate Programmes chapter contains information about:
 - Registration as undergraduate student, including the Situational Judgement Test and immunisation;
 - The Faculty’s undergraduate degree programmes with the minimum admission requirements for the various programmes;
 - Definitions of prerequisite pass, prerequisite and corequisite modules; and
 - The subjects and modules that you must take each year for the different degree programmes, with choices where applicable.
- Subjects, Modules and Module Contents chapter contains:
 - An explanation of subjects as opposed to modules;
 - An explanation of the different digits used for the numbering of modules in the Undergraduate Programmes chapter; and
 - A short breakdown of each module.
- Alphabetical list of undergraduate and postgraduate subjects is available in the back of this Calendar part.

1.2 Prospective postgraduate students

- General Information chapter contains information about:
 - The history, structure and functions of the Faculty;
 - Communication with the Faculty and the University, which includes an explanation of the concept “student number” as well as relevant contact details where you can refer important enquiries to; and
 - Language at the University.
- Postgraduate Programmes chapter contains information about:
 - The Faculty’s postgraduate degree programmes;
 - The admission requirements for the various degree programmes;
 - Specific closing dates for applications, and other relevant information, e.g. selection for admission, and assessment and examination; and
 - The subjects and modules that you must take each year for the different degree programmes, with choices where applicable.
- Subjects, Modules and Module Contents chapter contains:
 - An explanation of subjects as opposed to modules;
 - An explanation of the different digits used for the numbering of modules in the Undergraduate Programmes chapter;
 - An indication at the individual modules of the length of theoretical block periods; and
 - A short breakdown of each module.
- Alphabetical list of undergraduate and postgraduate subjects is available in the back of this Calendar part.

1.3 Registered undergraduate students

- General Information chapter contains information about:
 - Communication with the Faculty and the University with relevant contact details where you can refer important enquiries to; and
 - Language at the University.
- Undergraduate Programmes chapter contains information about:
 - The Faculty’s undergraduate degree programmes;
 - General examination matters as well as the examination and promotion provisions for each programme; and
 - The subjects and modules that you must take each year for the different degree programmes, with choices where applicable.
- Subjects, Modules and Module Contents chapter contains:
 - An explanation of subjects as opposed to modules;

- An explanation of the different digits used for the numbering of modules in the Undergraduate Programmes chapter;
- The abbreviations and definitions used for the teaching loads of individual modules;
- An indication at each module of what its teaching load is; and
- A short breakdown of each module.
- Alphabetical list of undergraduate and postgraduate subjects is available in the back of this Calendar part.

1.4 Registered postgraduate students

- General Information chapter contains information about:
 - Communication with the Faculty and the University with relevant contact details where you can refer important enquiries to.
- Postgraduate Programmes chapter contains information about:
 - The Faculty's postgraduate degree programmes;
 - The subjects and modules that you must take each year for the different degree programmes, with choices where applicable; and
 - The assessment and examination of each programme.
- Subjects, Modules and Module Contents chapter contains:
 - An explanation of subjects as opposed to modules;
 - An explanation of the different digits used for the numbering of modules in the Undergraduate Programmes chapter;
 - An indication at the individual modules of the length of theoretical block periods; and
 - A short breakdown of each module.
- Alphabetical list of undergraduate and postgraduate subjects is available in the back of this Calendar part.

General Information

1. Core mission and functions of the Faculty of Medicine and Health Sciences

Stellenbosch University's Faculty of Medicine and Health Sciences (FMHS) has been synonymous with excellence in medical and health sciences education and research in South Africa since 1956.

Our core mission is to lead through facilitating life-long learning; to create, share and translate knowledge that enhances health and health equity; and to co-create value together with the communities with whom we engage.

We are committed to creating a living and learning community in which scholarship flourishes, human rights are valued and protected, and the highest standards of ethics and professionalism are upheld.

1.1 Our history

The Faculty of Medicine and Health Sciences (FMHS), as one of the ten faculties at Stellenbosch University, was established in 1956, and has since developed into one of the leading health sciences faculties in Africa.

The Faculty has a diverse student body of approximately 4 000 undergraduate and postgraduate students. The Faculty's total staff consists of more than 1 400 individuals who are employed by Stellenbosch University, the Western Cape Government and other partner employers.

The FMHS is a self-driven hub of global excellence in many areas and has been the launch pad for a number of ground-breaking medical and health sciences initiatives. We are widely recognised for our world-class research on high-priority conditions in Africa, such as tuberculosis, HIV/AIDS and neuropsychiatric disorders.

1.2 Our Faculty structure

Our Faculty is managed by the Dean, the Vice Dean: Learning and Teaching, the Vice Dean: Research, the Vice Dean: Clinical Services and Social Impact, and the Senior Director: Business Management.

Our Faculty consists of fourteen academic departments, each of which is managed by an executive departmental head, and one centre. These are:

- Anaesthesiology and Critical Care;
- Biomedical Sciences;
- Centre for Health Professions Education;
- Family and Emergency Medicine;
- Global Health;
- Health and Rehabilitation Sciences;
- Medical Imaging and Clinical Oncology;
- Medicine;
- Nursing and Midwifery;
- Obstetrics and Gynaecology;
- Paediatrics and Child Health;
- Pathology;
- Psychiatry;
- Sport Science; and
- Surgical Sciences.

1.3 Our vision

Our Faculty's vision is to be the leading research-intensive health sciences faculty in and for Africa.

The Faculty's overarching objectives are to:

- Focus on systemic sustainability and cultivating innovation;
- Facilitate a transformative educational experience that prepares our graduates to excel and lead;
- Build and sustain reciprocal partnerships and networks;
- Focus on networked and collaborative learning communities in order to promote a learning-centred paradigm;
- Grow our reputation of research excellence aligned with the major health challenges of Africa; and
- Foster a people-centred institutional culture in pursuit of becoming a health sciences faculty of choice.

2. Teaching, research, and clinical services and social impact

2.1 Teaching

The Faculty offers a number of excellent academic training programmes, underpinned by research of the highest quality, and supported by well-integrated quality assurance and administration structures and processes. These programmes provide for the needs of a wide range of health care disciplines.

The Faculty has some of the best success rates for undergraduate students in the University. We have instituted a number of student support initiatives over the years which facilitate student success.

Perhaps the best-known of these is our extensive tutor-mentor programme in which senior students trained as tutors provide support to first-years.

Clinical facilitators are programme-specific clinicians who look after the needs of students in their clinical years. An early warning system has been developed to identify and assist at-risk students.

In addition, we work in close collaboration with the University's Centre for Student Counselling and Development (CSCD) in providing the necessary support services to our student body and maintain excellent relationships with the staff and management of the CSCD.

We have a strong focus on the use of modern technology to facilitate learning and has been at the forefront of implementing some educational technologies such as podcasts. To further improve the use of technology for learning and teaching the Faculty of Medicine and Health Sciences established the Unit for Learning Technologies that can help with the pedagogical methods for deploying technologies in your teaching.

2.2 Research

The Faculty has a reputation for research built over decades of diligent and persistent effort. We continue to perform as a leading research-rich environment with extensive international collaborations, in addition to national and local partnerships. A research agenda shaped by strategic research focus areas ensures that our research activities address the major health challenges facing the African continent.

In recent years, our researchers have experienced unprecedented success with respect to the acquisition of external grants. With the privilege of being able to conduct research comes the responsibility to publish. It is pleasing, therefore, that our researchers are increasingly making their mark in the international literature. Even more satisfying is the mounting evidence that their research is positively influencing health policy and practice in South Africa and beyond.

The Faculty's research activities and outputs indicate a significant increase in both volume and quality. The annual output of the Faculty is testimony to a proud research tradition, with more than 300 reviewed scientific articles in professional journals and more than 600 scientific papers, summaries and posters at conferences and other scientific meetings in South Africa and abroad.

The Faculty has selected seven research themes that are supported by the work of a number of world-class researchers in a variety of departments, divisions, centres and units in the Faculty. The research themes are the following:

- infectious diseases, especially tuberculosis and HIV/AIDS;
- reproductive health;
- mental health, especially psychiatric disorders;
- non-communicable diseases, especially diabetes, cancer and cardiovascular disease;
- public health, especially health systems and evidence-based health care;
- genetics; and
- injury, trauma and rehabilitation.

2.3 Clinical services and social impact

Together with research as well as teaching and learning, social impact is a cornerstone of the Faculty of Medicine and Health Sciences. Through the scholarship of community engagement, the Faculty forms an integral part of the community in which it functions. The disease profile and health needs of South Africa and the continent also drive the Faculty's strategy for research, teaching and learning, and social impact.

Strong partnerships between Stellenbosch University and both the Western Cape Department of Health and the National Health Laboratory Service are key to fulfilling our joint mandates of training, service and research. This is expressed through the Faculty's agreements with both these entities.

Undergraduate students, specialists-in-training and clinical academics work together to provide a valuable health service to the community, which affords students the opportunity to build a base of knowledge that will serve them well in their future careers in the healthcare system. Research as well as teaching and learning undertaken at grassroots level in the course of providing health services ensures that the Faculty is responsive to the country's actual health needs and has a positive impact on the health of the nation.

The Faculty also has other purposeful partnerships with the private sector and other parties, such as the provincial departments of Social Development and Education, along with non-profit organisations.

Through a distributed training model, students experience health sciences education at all levels of the healthcare system. Training occurs both in large hospitals such as Tygerberg and in underserved metropolitan and rural areas, community health centres, family medicine practices, mobile clinics and schools, old-age homes and the homes of patients – in the heart of various communities.

Worldwide, the health status of people in rural communities is generally poorer than that of their urban counterparts. The reasons for this vary, but in developing countries such as South Africa, rural communities are often more affected by poverty and unemployment, which contribute to their poor health status. Another factor is the unequal distribution of healthcare professionals around South Africa, as is the case in many other countries, which further lowers the quality of health care provided to people living in outlying rural areas.

Stellenbosch University was one of the first universities in South Africa to implement a rural training platform for its students. This platform extends across the Western, Eastern and Northern Cape.

Good rural training and learning opportunities alone are not sufficient, however. Students' emotional attachment to rural living comes from their experience during their time spent in the community, and the connections they formed with local people. Short rotations are inadequate to form such lasting connections.

In an engagement model, students are exposed to the realities of working in a resource-limited environment *within* the existing healthcare system, and not *alongside* it. Students provide assistance and support to healthcare personnel, while gaining valuable real-life experience at the same time.

To this end, Stellenbosch University established the Ukwanda Centre for Rural Health in 2001 to train healthcare professionals with applicable knowledge and hands-on experience of the health issues facing rural and underserved communities. In 2011, further expansion saw the establishment of the Ukwanda Rural Clinical School (RCS), which enables medical students to complete their final year of training while based in a rural community through a year-long longitudinal placement at Worcester, Ceres, Robertson, Hermanus, Upington or Swellendam hospitals. The Faculty's Human Nutrition and Occupational Therapy programmes were also first to offer year-long placements in Worcester.

In 2019, the Faculty started undergraduate clinical training in Upington, Northern Cape. Students across a number of programmes are based at the regional Dr Harry Surtie Hospital, but are also involved in service learning at local clinics, educational facilities, non-governmental organisations and neighbouring communities.

A key strategy for rural placements is to offer undergraduate students a chance to adapt to a rural lifestyle, thereby increasing the number of graduates who ultimately choose to return to work in rural communities after graduation.

3. The Tygerberg Campus

The Faculty of Medicine and Health Sciences (FMHS) is located at the Tygerberg Campus – South Africa's first smoke- and tobacco-free campus – which is situated in Cape Town's northern suburbs, approximately 30 kilometres from the University's Stellenbosch Campus.

Here staff and students enjoy views of the scenic Tygerberg Nature Reserve and the iconic Table Mountain.

The Tygerberg Campus boasts the following excellent facilities:

- Modern classroom centres;
- A modernised Medicine and Health Sciences Library;
- Several skills laboratories;
- A computer centre;
- Six student residences;
- International student and visitor accommodation;
- A student leisure centre and a cafeteria;
- Manicured sports fields;
- Tennis and netball courts;
- Campus health services;
- A well-equipped gymnasium;
- An eco-friendly walking trail; and
- A swimming pool.

The training complex consists of Tygerberg Hospital, the new Biomedical Research Institute (BMRI), the Fisan Building, the Clinical Building, and the Education Building with modern lecture, library, computer and laboratory facilities, as well as the brand new Simulation and Clinical Skills Centre.

Student accommodation is available in six university residences on the Tygerberg Campus, namely Hippokrates, Francie van Zijl House, Kerkenberg, Meerhoff, Ubuntu House and Nkosi Johnson House.

4. How to communicate with the Faculty

4.1 Contact details of the Faculty of Medicine and Health Sciences

Contact the Faculty at the general numbers below. For the Dean's office, see the section on the Dean's contact details. Consult the Faculty's website for the various departments' contact details.

Tel: 021 938 9111

Fax: 021 938 9159

Visit the Faculty at the following physical address

Francie van Zijl Drive
Tygerberg
7505
Cape Town

Direct specific enquiries about the Faculty to the addresses below.

You can send enquiries regarding your studies, bursaries and loans, and residence placements to the following address:

The Deputy Registrar
Faculty of Medicine and Health Sciences
PO Box 241
CAPE TOWN
8000
farah@sun.ac.za

You can send enquiries regarding finances and services to the following address:

Senior Director: Business Management
Faculty of Medicine and Health Sciences
PO Box 241
CAPE TOWN
8000
ebenm@sun.ac.za

4.2 Contact details of the Dean's Division and Services

Staff	Telephone number	Fax number	E-mail address
Division of the Dean			
Dean			
Prof Jimmy Volmink	021 938 9200	021 938 9862	deanfhs@sun.ac.za
Vice Dean: Learning and Teaching			
Prof Julia Blitz	021 938 9035	021 938 9558	juliablitz@sun.ac.za
Vice Dean: Clinical Services and Social Impact			
Dr Therese Fish	021 938 9096	021 931 6952	tfish@sun.ac.za
Vice Dean: Research			
Prof Nico Gey van Pittius	021 938 9098	021 938 9558	researchfhs@sun.ac.za
Senior Director: Business Management			
Mr Eben Mouton	021 938 9437	021 938 9558	ebenm@sun.ac.za
Services			
Centre for Student Administration			
Ms Salot Hanekom	021 938 9487	086 646 6142	salot@sun.ac.za
Deputy Registrar			
Ms Farah Fredericks	021 938 9379	086 646 6142	farah@sun.ac.za
Programme Administration & Faculty Administrator			
Mr Johan Coetzer	021 938 9204	086 646 6142	jco@sun.ac.za
Examinations			
Ms Pumeza Soga	021 938 9309	086 646 6142	psoga@sun.ac.za
Selection (Undergraduate Programmes)			
Mr Bronwen Geyer	021 938 9203	086 646 5818	tygselections@sun.ac.za
Bursary Enquiries			
Ms Noluvuyo Capsana	021 938 9458	086 646 6142	ncapsana@sun.ac.za
Residence Placement			
Ms Annelie Scholtz	021 938 9378	086 634 8810	amscholtz@sun.ac.za
Faculty Officer (Stellenbosch Campus)			
Ms Zenda Jansen	021 808 4842	021 808 3822	zj@sun.ac.za
Marketing and Communication			
Ms Meggan Ceylon	021 938 9202	021 931 0088	tygermar@sun.ac.za
Strategic Relations Manager			
Ms Ronel Bester	021 938 9833	None	ronelbester@sun.ac.za
Doctoral Office			
Dr Jyothi Chabilall	021 938 9778	021 938 9558	chabilallj@sun.ac.za
Health Sciences Library			
	021 938 9368	021 933 7693	genbib@sun.ac.za

For University environments not listed above, contact the Stellenbosch University Contact and Client Services Centre on the Stellenbosch Campus telephonically at 021 808 9111 or electronically at info@sun.ac.za.

4.3 Contact details of Departments

Department	Telephone number	Fax number	E-mail address
Anaesthesiology and Critical Care			
	021 938 9226 / 9028	None	hdryding@sun.ac.za
Biomedical Sciences			
	021 938 9124	021 938 9863	betina@sun.ac.za
Centre for Health Professions Education			
	021 938 9054	None	marais5678@sunc.ac.za
Family and Emergency Medicine			
	021 938 9620	None	rvdwe@sun.ac.za
Global Health			
	021 938 9753	021 938 9723	adele2@sun.ac.za
Health and Rehabilitation Sciences			
	021 938 9300	None	hvdw@sun.ac.za
Medical Imaging and Clinical Oncology			
	021 938 9320	021 938 9864	aj@sun.ac.za
Medicine			
	021 938 9044	021 938 9870	ma@sun.ac.za
Nursing and Midwifery			
	021 938 9036	021 938 9854	nursing@sun.ac.za
Obstetrics and Gynaecology			
	021 938 9209	021 938 9849	mms1@sun.ac.za
Paediatrics and Child Health			
	021 938 9506	021 938 9138	aec1@sun.ac.za
Pathology			
	021 938 4032	021 938 4005	awhitelaw@sun.ac.za
Psychiatry			
	021 938 9116	021 938 9738	jacinta@sun.ac.za
Sport Science			
	021 808 4915	021 808 4817	mimbotha@sun.ac.za
Surgical Sciences			
	021 938 9380	021 938 9705	preylene@sun.ac.za

4.4 Faculty's website

For more information on the Faculty of Medicine and Health Sciences and links to the webpages of the various departments, visit us at <http://www.sun.ac.za/english/faculty/healthsciences/>.

5. How to communicate with the University

5.1 Using your student number

- The University allocates a student number to you when you apply to study at the University.
- The student number is your unique identification to simplify future communication with the University.
- Use your student number every time you communicate with the University.

5.2 Contact details of the University

You can send enquiries regarding your studies, bursaries and loans, and residence placements to the following address:

The Registrar
Stellenbosch University
Private Bag X1
MATIELAND
7602

Visit Stellenbosch University's website at <http://www.sun.ac.za>.

6. Language at the University

Stellenbosch University is committed to engagement with knowledge in a diverse society and through the Language Policy aims to increase equitable access to SU for all students and staff. Multilingualism is promoted as an important differentiating characteristic of SU. Afrikaans, English and isiXhosa are used in academic, administrative, professional and social contexts. Pedagogically sound teaching and learning are facilitated by means of Afrikaans and English.

More information concerning language at Stellenbosch University is available on the website www.sun.ac.za/language.

Undergraduate Programmes

1. Programme offering

The following undergraduate degree programmes are offered by the Faculty of Medicine and Health Sciences:

- Bachelor of Medicine and Bachelor of Surgery (MBChB);
- Bachelor of Occupational Therapy (BOccTher);
- Bachelor of Science in Dietetics (BScDiet);
- Bachelor of Science in Physiotherapy (BScPhysio);
- Bachelor of Speech-Language and Hearing Therapy (BSL and HT); and
- Bachelor of Nursing (BNur).

2. Undergraduate enrolment management

In order to meet the targets of Council with regard to the total number of students and the fields of study and diversity profile of the student body of Stellenbosch University, it is necessary to manage the undergraduate enrolments at Stellenbosch University. The University's total number of enrolments is not only managed to accommodate its available capacity but we are committed to the advancement of diversity.

The University's undergraduate enrolment is managed within the framework of the national higher-education system. We strive toward a well-grounded cohesion between national and institutional goals, respecting important principles such as institutional autonomy, academic freedom and public responsibility. The following points of departure apply:

- High academic standards are maintained for the expansion of academic excellence.
- The University attempts to maintain and continuously improve high success rates.
- The University is committed to rectification, social responsibility and training future role models from all population groups.
- The University strives to expand access to higher education especially for students from educationally disadvantaged and economically needy backgrounds who possess the academic potential to successfully study at the University.

Take note that, due to the limited availability of places and the strategic and purposeful management of enrolments, you will not be automatically admitted to Stellenbosch University even if you meet the minimum requirements of your chosen programme.

All undergraduate programmes at the Faculty of Medicine and Health Sciences are selection programmes. Selection takes place according to the guidelines and procedures of the Faculty of Medicine and Health Sciences. Consult the selection procedures and admission requirements for undergraduate programmes at www.maties.com or on the Faculty's website at www.sun.ac.za/prospect_select. You can also find more details on the admission requirements for undergraduate programmes in this chapter.

3. The Situational Judgement Test

You must write the Situational Judgement Test (SJT) as a prospective undergraduate student in any of the undergraduate programmes of the Faculty of Medicine and Health Sciences. SJTs are designed to assess your judgement regarding situations encountered during training within the healthcare field or in the workplace and provide a picture of your situational judgement in that particular context. The SJT score will be used in conjunction with your academic scores (academic merit) to determine whether you are successful in the application process.

Visit the University website at [http://www.sun.ac.za/english/maties/Pages/Situational-Judgement-Test-\(SJT\).aspx](http://www.sun.ac.za/english/maties/Pages/Situational-Judgement-Test-(SJT).aspx) for more information on the Situational Judgement Test. You must register for the test by 31 July of the year before admission and write the test between 15 July and 15 August.

4. Bursaries and loans

Contact the Centre for Student Administration (Tygerberg Campus) for more information regarding bursaries and loans. See section 4.2 of the previous chapter at "Bursary enquiries" in the table for contact details or visit www.sun.ac.za/tygstudentadmin.

5. Immunisation

Immunisation against Hepatitis B is strongly recommended for all undergraduate students of the Faculty. If you are selected for the Bachelor of Nursing programme, you must be immunised against Hepatitis B.

You can be immunised by your own doctor or have it done at the Campus Health Service (CHS) on campus during the first semester of your first year. You must submit proof of immunisation to the programme leader before the end of the first year.

You are also strongly advised to get yourself immunised against Hepatitis A, Varicella (chicken pox) and measles.

6. Re-examinations of modules followed in other faculties

If you are registered for a degree or diploma programmes in the Faculty of Medicine and Health Sciences, but you are also taking modules in another faculty, the general examination policy as set out in Part 1 (General) of the University Calendar, under the chapter “University Examinations” in the section on “Provisions Relating to Examinations and Promotion” (as applicable on the Stellenbosch Campus), will apply.

7. Dealing with examination matters

7.1 Discussing examination answers with lecturers

If you want to learn from your mistakes, you can discuss your examination answers with the lecturer(s) concerned, provided that:

- You will only be allowed to view your marked examination script(s) in the presence of the lecturer(s) concerned.
- The opportunity to discuss examination scripts with lecturers is not intended as an opportunity for the re-evaluation of the examination mark received.
- In the Faculty of Medicine and Health Sciences the discussion of your examination script(s) may take place after the final marks have been published on the examination or other relevant notice boards, and allowing for any further arrangements the department or division concerned may have made with the approval of the Faculty Board.
- In the Faculty of Medicine and Health Sciences, if you have to take a reassessment or supplementary examination, the discussion of your script(s) may take place before the reassessment or supplementary examination.
- You must request the discussion of your script(s) within one month after the official confirmation of the examination results in question by the Vice-Rector (Learning and Teaching).

Please note: Examination scripts are destroyed two months after the date of the official confirmation of the examination results.

7.2 Re-evaluation of examination scripts

If you fail an examination in a module with a final mark of 35% to 39%, or 45% to 49%, you may, on payment of a deposit determined annually by the University and published in Part 1 (General) of the Calendar, apply in writing to the Deputy Registrar (Tygerberg Campus) for the re-evaluation of the examination script concerned. Your application is subject to the provisions below.

7.2.1 General provisions

- Your application must be completed on the prescribed form available on the web or at the examination office.
- Your application, accompanied by the above-mentioned deposit, must reach the Deputy Registrar within seven calendar days after official notification of examination results on the relevant notice-boards of the Faculty.
- In the case of modules where a written re-evaluation follows immediately after the examination (normally within one week after the examination results have been made available), you will only be able to apply for a reassessment after the results of the re-evaluation concerned have been made available. Both your original examination script and the script of the re-evaluation will be submitted for the reassessment.
- No re-evaluation of a test script or other task for assessment will be considered in the case of modules evaluated by means of flexible assessment. If you think that your final mark has been calculated incorrectly, you may, on payment of a deposit determined annually by the University, apply in writing to the Deputy Registrar (Tygerberg Campus) for the re-evaluation of your final mark in the relevant module by the relevant department, division or module team. Your application and deposit must reach the Deputy Registrar within seven calendar days after the official notification of the relevant examination results.
- Re-evaluation of the script of a parachute test, reassessment, special or supplementary examination will not be allowed.
- No application will be considered for the re-evaluation of a practical subject (e.g. clinical rotations) or any module in which external examiners were involved.
- No application will be considered for the re-evaluation of an oral, practical or clinical examination forming an integrating part of an ordinary university examination.
- No application will be considered for the re-evaluation of tests or examinations which were taken electronically.

7.2.2 Internal re-evaluation

- The first round of re-evaluation is done by the internal examiners.
- If your application complies with the general provisions above, the Division of the Deputy Registrar informs the module chairperson concerned by letter of the application. The letter also contains clear instructions on the internal re-evaluation process to be followed and a copy of these provisions. The module chairperson then obtains the relevant examination script(s) (including the above-mentioned written reassessment, if applicable), the examination paper and the memorandum of the lecturer(s) concerned.
- The module chairperson arranges for the re-evaluation by the internal examiners concerned after ascertaining that no calculation errors were made in the determination of the mark for the script.
- The module chairperson must submit the result of the re-evaluation in writing to the office of the Deputy Registrar within five workdays after initial receipt of the relevant script(s).

7.2.3 External re-evaluation

- If the internal examiners uphold the initial examination result, the examination script is re-evaluated by one qualified external examiner. This means that external re-evaluation is undertaken if you still fail the module after internal re-evaluation (in the instance where you have obtained a mark of 45% to 49%), or if you still do not have access to a re-evaluation or supplementary examination (in the case where you obtained a mark of 35% to 39%).
- If your script(s) qualifies for external re-evaluation, the lecturer/module chairperson concerned identifies an available external examiner for the module.
- The Deputy Registrar provides the external examiner with the relevant examination script(s) (including the reassessment script, if applicable), the examination paper(s) and the memorandum/memoranda, as well as a copy of these provisions, in a sealed envelope. The Deputy Registrar also requests the following from the external examiner in accompanying correspondence:
 - That the examiner checks the script(s) for marking errors, e.g. calculation errors, marks for a specific question that had not been added or deviations from the memorandum.
 - That the examiner re-evaluates the script(s) and awards a mark in accordance with the memorandum/memoranda.
 - That, if the examiner does not agree with the memorandum/memoranda, he/she provides a written motivation in this regard and awards the mark that would have been awarded had the script(s) been marked without consideration of the memorandum/memoranda. The external examiner must therefore award two marks, one according to the memorandum and one according to the external examiner's suggested amended memorandum.
 - That, if the mark of the external examiner differs from the original mark, the external examiner must clearly explain in writing how the new mark was obtained and where and why the external examiner differs from the internal examiners.
 - That the external examiner also states in the written feedback whether or not he/she feels that the memorandum/memoranda is reliable and valid and, if not, why not (as indicated above).
- The external examiner is requested to inform the Deputy Registrar in writing within **ten workdays** of the result of the various re-evaluations (including the aspects stipulated above).
- The findings of the external examiner are communicated to the module chairperson (and by the chairperson to the other internal examiners/lecturers as the case may be). The module chairperson must indicate whether these findings are acceptable, or not.

7.2.4 Dispute resolution

- If there is clear difference of opinion between the external examiner and the module chair (and the other internal examiners/lecturers) to the extent that no consensus can be reached on whether you pass or fail, the programme leader will convene an extraordinary meeting of the relevant examination committee, together with the Deputy Dean: Learning and Teaching or his delegate(s). This committee then makes a final and binding decision.
- The ruling stipulated above also applies to a dispute on the validity of the memorandum/memoranda.

7.2.5 Condonation of final mark

Except in cases as described in the paragraph on "Dispute resolution" above, your final mark (including the condonation of the mark) is determined and ratified by the Deputy Dean: Learning and Teaching, in consultation with the programme leader and module chair concerned (if applicable).

8. Readmission after unsuccessful study

The provisions governing readmission after unsuccessful study are as set out in Part 1 (General) of the University Calendar, as well as in the provisions relating to examinations and promotion for each undergraduate programme in Part 12 (Faculty of Medicine and Health Sciences). Address your application for readmission to the Deputy Registrar (Tygerberg Campus) for consideration by the Readmissions Committee of Senate. Contact fmhs_readmit@sun.ac.za for application forms or further enquiries.

9. Special arrangements with regard to graduation ceremonies for MBChB VI students who repeat modules

If as an MBChB VI student, you fail one or more domains at the end of your final year, and your clinical rotations and examinations are completed three weeks before the graduation ceremony in March/April, you can obtain your MBChB degree in March/April of that year. If, however, your clinical rotations and examinations are not completed three weeks before the graduation ceremony in March/April, you will only be able to obtain your MBChB degree in December of that year.

10. Prerequisite pass, prerequisite and corequisite modules

In certain programmes some modules are indicated as a prerequisite pass, prerequisite or corequisite module for another module. An explanation of each term is given below:

- **Prerequisite pass module:** a module that you must pass before you can take the module(s) for which it is a prerequisite pass module.
- **Prerequisite module:** a module in which you must obtain a class mark of at least 40%, or a final mark of at least 40% in the case of a module subject to flexible assessment, before you can take the module for which it is a prerequisite module.
- **Corequisite module:** a module that you must take in the same academic year as the module for which it is a corequisite, or in an earlier academic year.

11. Bachelor's degree programmes

11.1 Bachelor of Medicine and Bachelor of Surgery (MBChB)

Please note: The MBChB programme is currently undergoing a renewal. The first year of the revised curriculum of the programme will be offered for the first time in 2022 and for every year thereafter the subsequent year of the revised curriculum will be phased in while the same year of the current curriculum is phased out. This means that in 2023 the revised curriculum for MBChB II will be phased in while the current MBChB II is phased out at the same time, in 2024 the revised curriculum for MBChB III will be phased in while the current MBChB III is phased out at the same time, etc. until the revised curriculum for MBChB VI is phased in. The admission requirements for the renewed programme will be the same as for the current programme and it will also take six years to complete.

Admission requirements

- A National Senior Certificate (NSC) with university admission, endorsed by Umalusi, or an equivalent qualification with an **average of at least 70% (code 6)**
- Mathematics – code 5 (60%)
- Physical Sciences – code 4 (50%)
- Life Sciences – code 4 (50%)

Please note: If you failed the first year of MBChB or BSc at another university and you are refused further study in Medicine at that university, you will also not be admitted to MBChB I at Stellenbosch University.

Closing date for applications

Apply by **31 July** of the previous year. Only a limited number of students are selected annually for the first year of study of the MBChB programme. Selection for the programme is carried out in terms of clear guidelines that take into account both your academic and non-academic merit. Refer also to the selection guidelines at www.sun.ac.za/prospect_select.

Residency requirement

You must take the approved programme of this University for at least the final three academic years to obtain the MBChB degree at Stellenbosch University.

Registration with the Health Professions Council of South Africa

In terms of the regulations of the Health Professions Council of South Africa, you must apply at the beginning of your first year of study to register as a student in Medicine. You will not be registered as a student intern unless you have been registered as a student in Medicine with the Health Professions Council of South Africa for a period of at least four and a half years.

Compulsory class attendance

There is proof that class attendance and student success correlate with each other. Because of the impact that student learning in health sciences has on patients, you must attend all sessions where practical skills are acquired. This may be monitored appropriately. If monitoring indicates that you have attended less than 80% of the sessions without valid reasons, a class mark of less than 50% may be awarded for the module/domain.

Teaching and training facilities

As of the first year of study training will predominantly occur at the Tygerberg Campus, in Tygerberg Hospital, but also in various accredited local and distributed hospitals and clinics. Your placement at a particular facility is compulsory. Only in highly exceptional and motivated cases will you be permitted to exchange facilities with other students.

Allocation of final marks

In instances where it is deviated from the general provisions, the MBChB Programme Committee will provide information at the beginning of the year on how the final marks concerned will be calculated. During MBChB I, flexible assessment, as aligned with the Assessment Policy of the University, will be used.

Renewal of registration as a student

- a) If you discontinue your studies in the MBChB programme and want to resume at a later stage, you must reapply for admission to the relevant MBChB Programme Committee for a recommendation to the Committee for Undergraduate Teaching to confirm your return to the programme.
- b) If you do not comply with the requirements for a pass in a particular academic year and have obtained at least 0,5 HEMIS credits in your first year and at least 0,33 HEMIS credits every year from your second year of study, you must apply for readmission to the programme via the Readmission Appeals Committee.
- c) If, after a second attempt in the MBChB programme, you do not meet the requirements for a pass in a particular academic year of study, you must apply for readmission to the programme via the Readmission Appeals Committee.
- d) If you fail two academic years in succession (e.g. you have failed MBChB II and MBChB III, or MBChB III and MBChB IV), you must apply for readmission to the programme via the Readmission Appeals Committee.
- e) If, as a final-year MBChB student, you are unsuccessful twice in the assessment of any domain after having fully repeated that particular domain, you must be submitted by the MBChB Programme Committee to the Faculty Board for approval to repeat the domain again. If you are unsuccessful for the third time, you must apply for readmission.

Validity of class marks for MBChB III-VI

The following rules apply regarding the validity of class marks:

a) Theoretical modules

If your class mark for a theoretical module affords you access to the examination assessment in that module (i.e. your class mark is at least 40%), but you cannot take the examination assessment, in accordance with the leave policy of the University (see “Absence from classes and/or tests” in Part 1 of the University Calendar), the class mark remains valid for only one teaching and assessment cycle of the module. (A teaching and assessment cycle runs from completion of the module in a particular year until the final examination assessment opportunity for the module in that cycle, for example the January assessment opportunity in the following year.) If, during this period of validity, you cannot take the examination assessment, the class mark will expire so that you will have to register for the module in the following year and obtain a new class mark for the module.

b) Clinical rotations

• Early and middle clinical rotations

- If you have completed a clinical rotation domain of MBChB III, but have been unable to participate in the end-of-domain assessment, in accordance with the leave policy of the University (see “Absence from classes and/or tests” in Part 1 of the University Calendar), you must participate in such an assessment during the following clinical rotation in that domain. If it is the last rotation of the year, you must make special arrangements with the module chairperson for the domain to complete the assessment before the start of the following academic year. If you do not complete the assessment before the start of the following year, you must repeat the rotation. The same applies if you have failed a domain and qualify for a re-evaluation in that domain. You must participate in the re-evaluation during the following clinical rotation in that domain. If it is the last rotation of the year, you must make special arrangements with the module chairperson for the domain to complete the re-evaluation before the start of the following academic year. If you do not complete the re-evaluation before the start of the following year, you must repeat the rotation.

- If you have completed a clinical rotation domain of MBChB IV, but have been unable to participate in the end-of-domain assessment, in accordance with the leave policy of the University (see “Absence from classes and/or tests” in Part 1 of the University Calendar), you must participate in such an assessment during the following clinical rotation in that domain. If it is the last rotation of the year, you must participate in the assessment for that domain in the following year during the first semester of MBChB V.

The same applies if you have failed a domain and qualify for a re-evaluation in that domain. You must participate in the re-evaluation during the following clinical rotation in that domain. If it is the last rotation of the year, you must participate in the assessment for that domain in the following year during the first semester of MBChB V.

- If you have completed a clinical rotation domain of MBChB V, but have been unable to participate in the end-of-domain assessment, in accordance with the leave policy of the University (see “Absence from classes and/or tests” in Part 1 of the University Calendar), you must participate in such an assessment during the following clinical rotation in that domain. If it is the last rotation of the first semester, you must participate in the assessment for the corresponding domain of the second semester of MBChB IV during the second semester of MBChB V. You will not be promoted to the Late Clinical Rotations unless you have passed the Middle Clinical Rotations.

The same applies if you have failed a domain and qualify for a re-evaluation in that domain. You must participate in the re-evaluation during the following clinical rotation in that domain. If it is the last rotation of the first semester, you must participate in the re-evaluation for the corresponding domain of the second semester of MBChB IV during the second semester of MBChB V. You will not be promoted to the Late Clinical Rotations unless you have passed the Middle Clinical Rotations.

- Late clinical rotations
 - If, upon completion of a late clinical rotation, you have been unable to participate in the assessment of the domain, in accordance with the leave policy of the University (see “Absence from classes and/or tests” in Part 1 of the University Calendar), so as to obtain a class mark, you must participate in a following assessment opportunity for the domain as soon as possible. If you are unable to participate in an alternative assessment opportunity before the April or November assessment period (the first assessment opportunity following the rotation in which you could not obtain a class mark), you **MUST** obtain a class mark before the next assessment opportunity. If you have not obtained a class mark by the next assessment opportunity, your attendance will expire, and you must again attend the entire domain.
 - If you have managed to obtain a class mark for the domain but have failed to participate in any of the two consecutive assessment opportunities, your attendance will also expire, and you must again attend the entire domain.

Programme composition

The content of all modules meets the requirements of the Health Professions Council of South Africa. Consult the chapter “Subjects, Modules and Module Contents” of this Calendar part for more information regarding the content of modules.

MBCbB I (revised curriculum)

Compulsory modules

(attendance compulsory)

Being and Becoming in Health Care	111(60)
Form and Function	141(60)

MBCbB II

Please note: As of 2023, the revised MBCbB II curriculum will be offered and the curriculum information as stipulated below will change.

Compulsory modules

(attendance compulsory)

Respiratory System	271(30)
Cardiovascular System	271(30)
Digestive System	271(30)
Urogenital System	271(30)
Endocrine System	271(15)
Reproductive System	271(20)
Introduction to Clinical Medicine	271(20)

MBCbB III

Compulsory modules

Neurosciences	371(30)
Musculoskeletal System	371(30)
Haematological System	371(20)
Principles of Palliative Care	371(5)
Early Clinical Rotations	371(67)

MBCbB IV

Compulsory modules

Infections and Clinical Immunology	471(20)
The Skin	471(10)
Clinical Pharmacology	471(15)
Forensic Medicine	471(10)
Middle Clinical Rotations	471(62)

Continuation module

Elective	441(20)
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MBCbB V*Compulsory modules*

Anaesthesiology	511(20)
Doctor as Change Agent in Communities	511(25)
Ethics	511(10) (<i>attendance compulsory</i>)
Elective	541(20)
Middle Clinical Rotations	511(62)

Continuation module

Late Clinical Rotations	541(45)
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MBCbB VI*Compulsory modules*

Late Clinical Rotations	678(150)
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Flexible assessment and promotion provisions for MBCbB I

All modules of the MBCbB I programme are subject to flexible assessment as outlined in the University Calendar (Part 1). Below are the flexible assessment and promotion provisions as applicable.

The following rules apply to absence during assessments:

- If you become ill during the flexible assessment opportunity in a module, you must complete the assessment session.
- If you become ill before the flexible assessment opportunity in a module, you are strongly advised to take the next assessment opportunity according to the flexible assessment and promotion provisions for MBCbB I.
- If you provide substantiating evidence that you could not take the assessment due to illness or for any other valid reason, you are strongly advised to take the next assessment opportunity according to the flexible assessment and promotion provisions for MBCbB I.
- If you cannot use the next assessment opportunity for whatever reason, you must at least complete the annual minimum number of assessments as stipulated for each module.
- If you are unable to complete and pass the minimum number of assessments for a module, you will have to register for the module again in the following year.

MBCbB I*1. Promotion*

- a) You must pass the first semester of MBCbB I to be admitted to the second semester of MBCbB I.
- b) If you have failed only one module of MBCbB I, you will be allowed to repeat the year.
- c) You must pass all the modules of MBCbB I to be promoted to MBCbB II. That means that you must obtain a final mark of at least 50% in each module.
- d) If you do not comply with the requirements for a pass in MBCbB I after having failed the first or second semester or having failed a module twice, you must apply for readmission to the MBCbB programme (also see the section "Readmission after unsuccessful study" earlier in this chapter).

2. Repeating the first-year programme

If you cannot be promoted to the second year, you must repeat all the outstanding modules of the first year and obtain a final mark again. You will only be able to repeat the outstanding modules if you are permitted to repeat MBCbB I. See the section "Promotion" above for provisions regarding permission to repeat MBCbB I.

3. Taking MBCbB II modules in advance

Modules of MBCbB II may not be taken in advance.

Assessment and promotion provisions for MBCbB II-VI

Below are the assessment and promotion provisions as applicable to each year of study of the programme.

The following rules apply to absence during assessments:

- If you become ill during the assessment opportunity in a module, you must complete the assessment session.
- If you become ill before the assessment opportunity in a module, you are strongly advised to take the re-evaluation or supplementary assessment according to the assessment and promotion provisions for the specific academic year of the programme.
- If you provide substantiating evidence that you could not take the assessment due to illness or for any other valid reason, you may use the re-evaluation or supplementary assessment as the first and only assessment opportunity in the module concerned.
- If you cannot use the re-evaluation or supplementary assessment opportunity for any reason, no further opportunities will be allowed, and you will have to register for the module again in the following year.

MBChB II

Please note: As of 2023, the revised MBChB II curriculum will be offered and the curriculum information as stipulated below will change.

1. Promotion

You must pass all the modules of the second year to be promoted to MBChB III. That means that you must obtain a final mark of at least 50% in each module.

2. Supplementary assessments

No re-evaluations will be done in MBChB II modules. A supplementary examination assessment will be permitted in January of the following year in all modules in arrears, provided that you obtained a final mark of at least 40% in these modules. You must obtain an examination mark of at least 50% to pass a module. Only the examination mark of the supplementary examination assessment will be taken into account when calculating the final mark for the module unless the mark for the supplementary examination assessment is less than the original examination assessment mark. In that case the original examination assessment mark will be used. The awarded final mark shall not be more than 50%.

3. Repeating the second-year programme

If you cannot be promoted to MBChB III, you must join the revised MBChB curriculum.

4. Taking MBChB III modules in advance

If you cannot be promoted to MBChB III, you will not be permitted to take modules of MBChB III in advance.

MBChB III, MBChB IV and first semester of MBChB V

Please note: If you arrive late for a clinical assessment, or do not arrive at all, without an acceptable reason or apology, you fail that assessment.

1. Promotion

- a) You must obtain a final mark of at least 50% in each module of each year of study to be promoted to the next year of study.
 - i) In the case of elective modules, if you are only one elective module in arrears, you will have to complete the module at the end of MBChB V during the University vacation.
 - ii) If you fail the elective module more than once or you are in arrears for both elective modules at the end of MBChB V, you will not be promoted to MBChB VI and you must repeat the elective module(s).
- b) You must obtain a flexible assessment mark of at least 50% in each domain of the Early and Middle Clinical Rotations to be promoted to the next year or next phase (as applicable to the second semester of MBChB V). Consult the exceptions at viii) and ix) below.
 - i) If you have obtained a flexible assessment mark of less than 50% in any of the domains of these clinical rotation(s), you must take a reassessment in the domains concerned, provided that the flexible assessment mark that you obtained is not less than 40%. You must obtain a mark of at least 50% in the reassessment to be promoted to the next year/phase. Consult the exceptions at viii) and ix) below.
 - ii) If you fail to complete all obligations concerning a particular clinical rotation, without a valid excuse, when the rotation comes to an end, you will receive an incomplete for that rotation. You will then have to repeat the rotation concerned in order to be promoted to the next year or phase of the programme.
 - iii) If you are unable to participate in the first assessment or the reassessment opportunity in a clinical rotation domain for valid and acceptable reasons, you must participate in the next assessment or reassessment opportunity for that domain (with the group that participates in the next rotation in that domain). If you fail to do so without a valid and acceptable reason, you may fail such a domain.
 - iv) In the case of MBChB III a formal assessment will take place at the end of the year of all clinical skills that were taught during the course of the year. You must submit a satisfactorily completed log-book for admission to the clinical skills assessment. You must obtain at least 50% in this assessment to be promoted to MBChB IV. You can be permitted to take a reassessment if you have obtained a mark of at least 40% in the original assessment and you must obtain a mark of at least 50% in the reassessment to be promoted to MBChB IV.
 - v) If you are still in arrears with the clinical skills domain after the reassessment and you have passed all the theoretical modules and other clinical rotation domains, you will be allowed to repeat the clinical skills domain during the vacation period at the end of the year. You will have to write a special assessment in this domain in January of the following year. A mark of at least 50% must be obtained in the special assessment to be promoted to MBChB IV.
 - vi) In the case of MBChB V a formal assessment will take place at the end of the first semester of all clinical skills that were taught during the course of the Middle Clinical Rotations in MBChB IV and the first semester of MBChB V. You must submit a satisfactorily completed log-book for admission to the clinical skills assessment. You must obtain at least 50% in this assessment to be promoted to the Late Clinical Rotations in the second semester of MBChB V. You can be permitted to take a reassessment for the clinical skills assessment if you have obtained a mark of at least 40% in the original assessment and you must obtain a mark of at least 50% in the reassessment to be promoted to the Late Clinical Rotations.

If you are still in arrears with the clinical skills domain after the reassessment and all the other clinical rotation domains have been passed, you will be allowed to repeat the clinical skills domain during the elective period, and write a special assessment immediately thereafter. You must obtain a mark of at least 50% in the special assessment to be promoted to the Late Clinical Rotations. If the planned elective is of a clinical nature, you may consider doing the clinical skills domain which is in arrears and the elective simultaneously. Otherwise you must do the elective at the end of the year in the vacation period.

- vii) The Emergency Medicine domain is considered to be one of the clinical rotation domains of the Middle Clinical Rotations 511 module.
- Assessment of the domain consists of two written assessments and a portfolio. The first written assessment is conducted at the end of the Emergency Medicine block in MBChB IV, and the second written assessment during the assessment period at the end of the first semester of MBChB V. You must also submit the portfolio at the end of the first semester of MBChB V.
 - All of these assessments contribute to the domain mark, which is weighted and combined with the marks of the other domains of MBChB V (first semester) to determine the final mark for the Middle Clinical Rotations 511 module.
 - You must obtain a domain mark of at least 50% to promote to the Late Clinical Rotations in the second semester of MBChB V.
 - If you obtain a domain mark of less than 50%, but at least 40%, for the Emergency Medicine domain, you will qualify for a re-evaluation. You must obtain a mark of at least 50% for the re-evaluation to pass the domain. The mark after re-evaluation will not be more than 50%.
 - If you also fail the re-evaluation, by obtaining a mark of less than 50%, or if you obtained a domain mark of less than 40% in the original assessment, you must take a clinical Emergency Medicine related elective during the MBChB V elective period to address any problem areas. Soon after the completion of the elective, a special assessment in Emergency Medicine will be conducted. You must obtain a mark of at least 50% in the special assessment to pass the domain. The mark allocated for the special assessment will not be more than 50%.
- viii) The provisions at ix) and x) below apply under the following circumstances:
- At the end of MBChB III, MBChB IV and the first semester of MBChB V;
 - After reassessment;
 - If are only one domain of four weeks in arrears, or only two domains of two weeks each; and
 - if you passed all the relevant theoretical modules and the clinical skills assessment, as well as the assessment of the Emergency Medicine domain in the case of the first semester of MBChB V).
- ix) Under the circumstances mentioned above, the following provisions apply:
- In the case of MBChB III, you will be allowed to repeat the clinical rotation(s) in the relevant domain(s) during the vacation period at the end of the year and thus obtain a flexible assessment mark again.
 - In the case of MBChB IV, you will be allowed to advance to MBChB V and to repeat the rotation(s) in the relevant domain(s) in the period set aside for Elective Module 541 (and thus obtain a flexible assessment mark again). That means that you will have to complete the elective module during the vacation period at the end of the year.
 - In the case of the first semester of MBChB V, you will have to pass all the middle clinical rotations in arrears before you will be allowed to advance to the late clinical rotations in the second semester of MBChB V.
- x) The provisions at ix) above apply for domains in which you obtained a flexible assessment mark of less than 40% (and you thus do not qualify for a reassessment) as well as domains that you failed after reassessment. If you once again achieve a mark of less than 50% after reassessment in one or more of the domains in arrears, you will fail the relevant clinical rotation module for the second time and the following additional stipulations will apply:
- If you are an MBChB III student, you must apply for readmission to the programme. If you are readmitted, you must repeat all the clinical rotations of MBChB III and obtain a new flexible assessment mark for all the rotations.
 - If you are an MBChB IV student, you will be promoted to the first semester of MBChB V and you must repeat the outstanding clinical rotation during the elective period at the end of the first semester. In that case you must undertake the elective module at the end of the year in the holiday period. If you fail the rotation again, you must apply for readmission to the programme. If you are readmitted, you must repeat the outstanding clinical rotation in the second semester of MBChB V.
 - If you are in the first semester of MBChB V, you must apply for readmission to the programme. If you are readmitted, you must repeat the outstanding clinical rotation in the second semester of MBChB V.

2. Credits in arrears

- a) A system of supplementary written assessments applies to modules in arrears of MBChB III, MBChB IV and first semester of MBChB V, and no re-evaluations will take place.
 - o If you are any theoretical module(s) in arrears at the end of MBChB III, MBChB IV or first semester of MBChB V, you will be allowed to sit for a supplementary assessment in January of the following year (or in June of the same year in the case of the first semester of MBChB V), provided that you achieved a final mark of at least 40% for the relevant module.
 - o An assessment mark of at least 50% must be obtained in the special assessment to pass the module.
 - o Only the assessment mark of the supplementary assessment will be taken into account when calculating the final mark for the module unless the mark for the supplementary assessment is less than the original mark.
 - o If the mark of the supplementary assessment is lower, then the mark of the original assessment will be used.
 - o Your final mark will not be more than 50% for the supplementary assessment.
 - o If you are only the Haematological System 371 and/or the Principles of Palliative Care 371 modules in arrears, and have passed all the other theory modules of MBChB III and the Early Clinical Rotations 371 module, you will be allowed to advance to MBChB IV in the following year. You will, however, have to repeat the Haematological System 371 and/or Principles of Palliative Care 371 modules with the MBChB III students when the MBChB IV students do the corresponding middle clinical rotation. If that is the only rotation in arrears upon completion of MBChB IV and if you have passed all the theoretical modules of MBChB IV, you will be allowed to advance to MBChB V in the following year in accordance with the provisions at ix) under "Promotion" above.
- b) If you have passed the Middle Clinical Rotations 471 module at the end of MBChB IV and are only one theoretical module of the first semester in arrears, you will be allowed to proceed with the first semester of MBChB V in the following year.
 - o You may register for all the theoretical modules and the Middle Clinical Rotations of MBChB V.
 - o When the MBChB IV module in arrears is presented, you must attend the contact sessions for that module together with the MBChB IV students and participate in all assessments to obtain a new class, assessment and final mark.
 - o You must attend the MBChB V module in arrears with the MBChB IV students during the period scheduled for the Elective 541 module.
 - o You must complete the Elective 541 module during the holiday period at the end of MBChB V.
 - o If you pass the MBChB IV module in arrears at the end of the first semester of MBChB V, you will be allowed to proceed with the Late Clinical Rotations of MBChB V taking into consideration paragraph c) below.
- c) If you are any of the theoretical modules in arrears at the end of the first semester of MBChB V, and you passed the Clinical Rotations 511 module, you will be allowed to proceed with the Late Clinical Rotations in the second semester.
 - o The theoretical module(s) in arrears must then be completed during the first semester of the following year. You must obtain a class, assessment and final mark again.
 - o You do not have to repeat the Middle Clinical Rotations of the first semester of MBChB V, but you will be allowed to proceed with relevant domains of the Late Clinical Rotations on condition that there is no overlapping with theoretical modules that you have to repeat.
 - o To give you the opportunity to optimally prepare for the MBChB V assessment in the modules in arrears, you will not be allowed to participate in the Late Clinical Rotations after the MBChB VI assessment in April and before the MBChB V assessment in May.
 - o If you pass the theoretical module(s) in arrears, you will be allowed to proceed with the Late Clinical Rotations during the second semester.

3. Repeating the year programme

If, as a student of MBChB III or IV, you are unable to be promoted to the next year, you must repeat all outstanding theoretical modules of the current year. You must obtain a class, assessment and final mark again. You must repeat all clinical rotations, including evaluations, of the relevant year except for the Introduction to Emergency Medicine domain. The final mark you obtain for the repeated clinical rotations will be used as the final mark for the relevant clinical rotations module and the applicable rules, as set out in b) under the section "Promotion", will apply anew.

MBChB VI

Please note: If you arrive late for a clinical assessment, or do not arrive at all, without an acceptable reason or apology, you fail that assessment.

1. Final assessment

You will pass the final assessment if you pass the core module Late Clinical Rotations 678 with a final mark of at least 50%. Also consult the faculty-specific provisions relating to assessments and promotion that are applicable to the Late Clinical Rotations. This can be found in the information booklet for Late Clinical Rotations.

2. *Re-evaluation*

Consult the faculty-specific provisions regarding re-evaluation in domains of the Late Clinical Rotations. This can be found in the information booklet for Late Clinical Rotations.

3. *Repeating the year programme*

If you are any domain(s) of the Late Clinical Rotations in arrears at the end of MBChB VI, you must repeat the outstanding domain(s) during the next year and again obtain a class, assessment and final mark in the particular domain(s). Besides the official Student Intern (SI) assessment periods in April and November of each year, only two additional assessment opportunities will be scheduled for you in January/February and in the course of the second semester.

4. *Cum laude*

To determine whether you pass the MBChB degree *cum laude*, the procedure set out under “Provisions Relating to Examinations and Promotion” in the chapter regarding “University Examinations” in Part 1 (General) of the Calendar will apply. You must pass the degree with an average final mark of 75% or more to pass with distinction.

Enquiries

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11.2 Bachelor of Occupational Therapy (BOccTher)

Specific admission requirements

- A National Senior Certificate (NSC) with university admission, endorsed by Umalusi, or an equivalent qualification with an average of at least 50% (code 4)
- Mathematics – code 3 (40%)
- Life Sciences – code 4 (50%)
- You are strongly advised to include Physical Sciences and Afrikaans as subjects for the NSC examination.

Closing date for applications

Apply by **31 July** of the previous year. Only a limited number of students are selected annually for the first year of study of this programme. Selection for the programme is carried out in terms of clear guidelines that take into account both your academic and non-academic merit. Refer also to the selection guidelines at www.sun.ac.za/prospect_select.

Compulsory class attendance

There is proof that class attendance and student success correlate with each other. Because of the impact that student learning in health sciences has on patients, you must attend all contact sessions. Your attendance of all sessions where practical skills are acquired may be monitored appropriately. If monitoring indicates that you have attended less than 80% of the sessions without valid reasons, a class mark of less than 50% may be awarded for the module.

Compulsory practical/clinical work

You must do compulsory practical/clinical work as part of the degree programme in Occupational Therapy. You will be informed of the arrangements in good time.

Teaching and training facilities

Training occurs predominantly at the Stellenbosch campus during the first year of study and from the second year onwards at the Tygerberg campus and on the distributed clinical platform. Your placement at a particular facility is compulsory. Only in highly exceptional and motivated cases will you be permitted to exchange facilities with other students.

Allocation of final marks

In instances where it is deviated from the general provisions, the relevant academic division will provide information at the beginning of the year on how the final marks concerned will be calculated.

Renewal of registration as a student

- a) If you still do not meet the requirements for a pass in a particular year of study after a second attempt, you must apply for readmission to the programme.
- b) If you do not comply with the requirements for a pass on the first occasion in two consecutive years of study of the programme, you must apply for readmission to the programme.
- c) If you discontinue the programme and want to resume at a later stage, you must apply for admission to the programme anew. Your application will be considered by the Undergraduate Programme Committee of the Division of Occupational Therapy for a recommendation to the Committee for Undergraduate Teaching.

Programme composition

Consult the chapter “Subjects, Modules and Module Contents” of this Calendar part for more information regarding the contents of modules.

First year

Compulsory modules

Occupational Therapy	178(40)
Psychology	114(12), 144(12)
Sociology	114(12), 144(12)
Fundamentals of Physiology	178(24)
Special Physics	111(8)
Industrial Psychology	262(8)
Industrial Psychology (Occupational Therapy)	132(6)

Second year

Compulsory modules

Anatomy (AHS)	278(36) (This module is a prerequisite pass module for Pathology 324, 334 and 354.)
Occupational Therapy	278(60)
Psychology	213(8), 223(8), 243(8), 253(8) (These modules are prerequisite pass modules for Pathology 324)

Third year

Compulsory modules

Occupational Therapy: Theory	374(32)
Occupational Therapy: Practical	374(62)
Pathology	324(10), 334(8), 354(7)
Research Methodology in Occupational Therapy	344(12)

Fourth year

Compulsory modules

Occupational Therapy: Theory	484(26)
Occupational Therapy: Practical	478(112)
Research Methodology in Occupational Therapy	482(12)

Assessment and promotion provisions

The general provisions for readmission after unsuccessful study and for the continuation of a module as set forth in Part 1 (General) of the University Calendar, are also applicable to this programme. Below are the assessment and promotion provisions as applicable to each year of study of the programme.

The following rules apply to absence during assessments:

- If you become ill during the assessment in a module, you must complete the assessment session.
- If you become ill before the assessment opportunity in a module, you are strongly advised to take the re-evaluation or supplementary assessment for examination-assessed modules or the next available assessment opportunity for flexibly assessed modules according to the assessment and promotion provisions for the specific academic year of the programme.
- If you provide substantiating evidence that you could not take the assessment due to illness or for any other valid reason, you may use the re-evaluation or supplementary assessment as the first and only assessment opportunity for examination-assessed modules or the next available assessment opportunity for flexibly assessed modules.
- If you cannot use the re-evaluation or supplementary assessment opportunity for examination-assessed modules for any reason or the minimum number of assessments for flexibly assessed modules, no further opportunities will be allowed and you will have to register for the module again in the following year.

First year

1. Promotion

You must pass all the modules of the first year to be promoted to BOccTher II. That means that you must obtain a final mark of at least 50% in each module.

2. Re-evaluation

Re-evaluation applies only to Occupational Therapy 178. For the other modules of the first year the examination policy as stipulated under the chapter "University Examinations" in "Provisions Relating to Examinations and Promotion" in Part 1 (General) of the Calendar is applicable.

3. *Credits in arrears*

If you are only one examination-assessed module in arrears at the end of the year (except Psychology 114 and 144 and Industrial Psychology 132 and 262), you will be permitted to write a special examination assessment in January of the next year, provided that the final mark obtained in the module is at least 40%. For the Psychology modules the examination policy as stipulated under the chapter “University Examinations” in “Provisions Relating to Examinations and Promotion” in Part 1 (General) of the Calendar is applicable.

4. *Repeating the year programme*

If you cannot be promoted to the second year, you must repeat all outstanding modules of the first year. That means that you must obtain a class mark in each outstanding module again.

5. *Taking BOccTher II modules in advance*

If you cannot be promoted to the second year, you may take Psychology 213, 223, 243 and 253, provided that you have passed Psychology 114 and Psychology 144 and that the class and assessment timetables permit it.

Second year

1. *Promotion*

You must pass all the modules of the second year to be promoted to BOccTher III. That means that you must obtain a final mark of at least 50% in each module.

2. *Re-evaluation*

Re-evaluation applies to all modules of this programme, except Psychology 213, 223, 243 and 253. For the Psychology modules the examination policy as stipulated under the chapter “University Examinations” in Part 1 (General) of the Calendar is applicable.

3. *Credits in arrears*

If, at the end of the year, you are only Anatomy (AHS) 278 in arrears, you will be permitted to write a special examination assessment in January of the next year, provided that the final mark obtained in the module concerned is at least 40%. For the Psychology modules the examination policy as stipulated under the chapter “University Examinations” in “Provisions Relating to Examinations and Promotion” in Part 1 (General) of the Calendar is applicable.

4. *Repeating the year programme*

If you cannot be promoted to the third year, you must repeat all outstanding second-year modules. That means that you must obtain a class mark in each outstanding module again.

Consult the General Manual of the Division of Occupational Therapy for faculty-specific transition guidelines pertaining to the clinical communication skills component of the Occupational Therapy 278 and 374 modules. These transition guidelines apply only if you did not complete the clinical communication skills component as part of the Occupational Therapy modules.

5. *Taking BOccTher III modules in advance*

If you are only Psychology 213, 223, 243 or 253 in arrears, and you cannot be promoted to the third year, you may take Pathology 334 and 354, provided that the class and assessment timetables permit it.

Third year

1. *Promotion*

You must pass all the modules of the third year to be promoted to BOccTher IV. That means that you must obtain a final mark of at least 50% in each module.

2. *Re-evaluation*

Re-evaluation applies to all modules of the third year of this programme.

3. *Credits in arrears*

If, at the end of the year, you are only Research Methodology in Occupational Therapy 324, Pathology 324, Pathology 334 or Pathology 354 in arrears, you will be permitted to write a special examination assessment in January of the next year, provided that the final mark obtained in the module concerned is at least 40%.

4. *Repeating the year programme*

If you cannot be promoted to the fourth year, you must repeat all outstanding third-year modules. You may also be required to attend Occupational Therapy: Theory 374 and/or Occupational Therapy: Practical 374 again and obtain a certificate of satisfactory attendance even if you previously passed these modules.

Consult the General Manual of the Division of Occupational Therapy for faculty-specific transition guidelines regarding the clinical communication skills component of the Occupational Therapy 278 and 374 modules. These transition guidelines apply only if you did not complete the clinical communication skills component as part of the Occupational Therapy modules.

5. *Taking BOccTher IV modules in advance*

If you have passed Research Methodology in Occupational Therapy 344, you may only take Research Methodology in Occupational Therapy 482, provided that the class and assessment timetables permit it.

Fourth year

1. Final assessment

You will pass the final assessment if you obtain a final mark of at least 50% in all the modules of the programme.

If you fail Research Methodology in Occupational Therapy 482 and one of Occupational Therapy: Theory 484 or Occupational Therapy: Practical 478 in the November final assessment and you obtained a final mark of at least 40% in these modules, you will be permitted to take the reassessment in the first quarter of the following academic year.

If you failed both Occupational Therapy: Theory 484 and Occupational Therapy: Practical 478 in the November final assessment, you must repeat both these fourth-year modules. Furthermore, you must take all the assessments in the modules referred to again in the following academic year.

The same provision also applies if you must only repeat Occupational Therapy: Theory 484 or Occupational Therapy: Practical 478. You must obtain a class mark for these modules and write the assessment for the modules again. No Dean's Concession Assessment will be permitted for Occupational Therapy: Theory 484. If as a final-year Occupational Therapy student you do not pass within two years after your first registration for Occupational Therapy 484 and Occupational Therapy Practical 478, you may, on the recommendation of the Faculty Board, be denied the right to present yourself for any further assessment.

Enquiries

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11.3 Bachelor of Science in Dietetics (BScDiet)

Specific admission requirements

- A National Senior Certificate (NSC) with university admission, endorsed by Umalusi, or an equivalent qualification with an average of at least 50% (code 4)
- Mathematics – code 4 (50%)
- Physical Sciences – code 4 (50%)
- Life Sciences – code 4 (50%)
- You are strongly advised to include Afrikaans as a subject for the NSC examination.

Closing date for applications

Apply by **31 July** of the previous year. Only a limited number of students are selected annually for the first year of study of this programme. Selection for the programme is carried out in terms of clear guidelines that take into account both your academic and non-academic merit. Refer also to the selection guidelines at www.sun.ac.za/prospect_select.

Teaching and training facilities

As of the first year of study training will predominantly occur at the Tygerberg Campus, in Tygerberg Hospital, and in various accredited local and peripheral hospitals, clinics and training facilities. Your placement at a particular facility is compulsory. Only in highly exceptional and motivated cases will you be permitted to exchange facilities with other students. In the first year, certain practicals of first-semester modules will be offered on the Stellenbosch Campus.

Allocation of final marks

In instances where it is deviated from the general provisions, the relevant academic division will provide information at the beginning of the year on how the final marks concerned will be calculated.

Renewal of registration as a student

- a) If you do not meet the requirements for a pass in a particular year of study after a second attempt, you must apply for readmission to the programme.
- b) If you do not comply with the requirements for a pass on the first occasion in two consecutive years of study of the programme, you must apply for readmission to the programme.
- c) If you discontinue the programme and want to resume at a later stage, you must reapply for admission to the programme. Your application will be considered by the Undergraduate Programme Committee of the Division of Human Nutrition for a recommendation to the Committee for Undergraduate Teaching.

Programme composition

Consult the chapter "Subjects, Modules and Module Contents" of this Calendar part for more information regarding the contents of modules.

First year
Compulsory modules

Anatomy	178(20) (This module is a prerequisite pass module for Therapeutic Nutrition 244 and a corequisite for Human Physiology 171.)
Becoming a Health Professional	111(20)
Chemistry for Health Sciences	112(8)
Human Physiology	171(20) (This module is a prerequisite pass module for Therapeutic Nutrition 244 and a corequisite for Anatomy 178.)
Physiological Biochemistry	142(7)
Medical Microbiology	142(6) (This module is a prerequisite module for Food Production and Systems 214 and Applied Food Science 254.)
Nutrients in Health	142(20) (This module is a prerequisite pass module for Nutrition in the Life Cycle 214, Therapeutic Nutrition 244 and Nutrition Status Assessment 231.)
Foods	144(20) (This module is a prerequisite pass module for Food Production and Systems 214.)

Second year
Compulsory modules

Ethics and Human Rights	214(3) (This module is a prerequisite pass module for Ethics and Human Rights 341.)
Physiology	278(26) (This module is a prerequisite pass module for Therapeutic Nutrition 378.)
Community Nutrition	244(7)* (This module is a prerequisite pass module for Community Nutrition 376.)
Practical Training	272(17) (This module is a corequisite for Food Production and Systems 214, Applied Food Science 254, Nutrition in the Life Cycle 214, Community Nutrition 244, Nutritional Status Assessment 231 and Therapeutic Nutrition 244. Practical Training 272 is also a prerequisite pass module for Practical Training 374.)
Psychology for Health Sciences	242(7)
Therapeutic Nutrition	244(10)* (This module is a prerequisite pass module for Therapeutic Nutrition 378.)
Applied Food Science	254(14)*
Nutrition in the Life Cycle	214(15)* (This module is a prerequisite pass module for Therapeutic Nutrition 244 and Community Nutrition 244.)
Nutritional Status Assessment	231(12)* (This module is a prerequisite pass module for Therapeutic Nutrition 244.)
Food Production and Systems	214(20)* (This module is a prerequisite pass module for Applied Food Science 254.)

* Core modules that represent the three basic components of Dietetics, namely community nutrition, therapeutic nutrition and food service management.

Please note: You must pass Practical Training 272 with a minimum final mark of 50%. You must obtain a flexible assessment mark of at least 40% for the practical aspect of each of the core modules and Language Competency to pass the Practical Training 272 module.

Third year*Compulsory modules*

Management Principles	377(18)* (This module is a prerequisite pass module for Food Service Management 476.)
Biostatistics and Epidemiology	322(9) (This module is a prerequisite pass module for Research Methodology 478.)
Ethics and Human Rights	341(4) (This module is a corequisite module for Community Nutrition 376.)
Community Nutrition	376(27)* (This module is a prerequisite pass module for Community Nutrition 478.)
Research Methodology	312(9) (This module is a prerequisite pass module for Research Methodology 478 and a corequisite module for Biostatistics and Epidemiology 322.)
Practical Training	374(28) (This module is a corequisite module for Therapeutic Nutrition 378, Community Nutrition 376 and Management Principles 377.)
Therapeutic Nutrition	378(35)* (This module is a prerequisite pass module for Therapeutic Nutrition 478.)

*Core modules that represent the three basic components of Dietetics, namely community nutrition, therapeutic nutrition and food service management.

Please note: You must pass Practical Training 374 with a minimum final mark of at least 50%. You must obtain a flexible assessment mark of at least 40% for the practical aspect of each of the core modules and Language Competency to pass the Practical Training 374 module.

Fourth year*Compulsory modules*

Research Methodology	478(16)
Food Service Management	476(37)
Therapeutic Nutrition	478(58)
Community Nutrition	478(37)

Please note: As part of the internship you will be exposed to practical training for 34 weeks in the three basic components of Dietetics, namely community nutrition, therapeutic nutrition and food service management.

Assessment and promotion provisions

The general provisions for readmission after unsuccessful study and for the continuation of a module as stipulated in Part 1 (General) of the University Calendar, are also applicable to this programme.

Below are the assessment and promotion provisions as applicable to each year of study of the programme.

The following rules apply to absence during assessments:

- If you become ill during the assessment opportunity in a module, you must complete the assessment session.
- If you become ill before the assessment opportunity in a module, you are strongly advised to take the re-evaluation or supplementary assessment for examination-assessed modules or the next available assessment opportunity for flexibly assessed modules according to the assessment and promotion provisions for the specific academic year of the programme.
- If you provide substantiating evidence that you could not take the assessment due to illness or for any other valid reason, you may use the re-evaluation or supplementary assessment as the first and only assessment opportunity for examination-assessed modules or the next available assessment opportunity for flexibly assessed modules.
- If you cannot use the re-evaluation or supplementary assessment opportunity for examination-assessed modules for any reason, or the minimum number of assessments for flexibly assessed modules, no further opportunities will be allowed and you will have to register for the module again in the following year.

First year

1. Promotion

- a) You must pass all the modules of the first year to be promoted to BScDiet II. That means that you must obtain a final mark of at least 50% in each module.
- b) The following will be considered in determining your class mark for the modules Nutrients in Health 142 and Foods 144:
 - o Your average test mark must be at least 40% to get examination assessment admission.
 - o The theoretical component contributes at least 60% to the class mark, depending on the specific module.
- c) A system of flexible assessment applies to the modules Anatomy 178, Becoming a Health Professional 111 and Chemistry for Health Sciences 112. Assignments, projects, tutorials, theory tests and practical assessments are used to determine your final mark.
- d) Written assessments in all examination-assessed modules of the first semester must be taken during the assessment period at the end of the first semester, except for the Anatomy 178, Becoming a Health Professional 111 and Chemistry for Health Sciences 112 modules, which are subject to flexible assessment.
- e) Written assessments in all examination-assessed modules of the second semester must be taken during the assessment period at the end of the second semester.

2. Re-evaluation

Re-evaluation applies to all modules of the first year, except for the Anatomy 178, Becoming a Health Professional 111 and Chemistry for Health Sciences 112 modules. To qualify for re-evaluation in a module, you must obtain a final mark of at least 40%. All re-evaluations will be done directly after the assessment period. These re-evaluations will, however, not be done within 48 hours of announcement of the final marks. You must achieve a mark of at least 50% in the re-evaluation to pass the module. The final mark after re-evaluation will not be less than the original final mark but will also not be more than 50%.

3. Credits in arrears

- a) If you are only one examination-assessed module in arrears at the end of the first semester, you will be permitted to write a special examination assessment in July of the same year, provided that you obtained a final mark of at least 40% in the module. You must obtain an examination mark of at least 50% to pass the module in the July assessment. If you are only Anatomy 178, Becoming a Health Professional 111 or Chemistry for Health Sciences 112 in arrears at the end of the first semester, you do not qualify for a special examination assessment.
- b) If you are only one examination-assessed module in arrears at the end of the year, you will be permitted to write a special examination assessment in January of the next year, provided that you obtained a final mark of at least 40% in the module. You must obtain an examination mark of at least 50% to pass the module in the January assessment. The awarded mark in the special examination assessment will not be more than 50%. If you are only Anatomy 178, Becoming a Health Professional 111 or Chemistry for Health Sciences 112, which are assessed on a flexible basis, in arrears, you will not be permitted to write a special examination assessment.

4. Repeating the year programme

If you cannot be promoted to the second year, you must repeat all outstanding modules of the first year. That means that you must obtain a class mark and final mark in each outstanding module again. You will be permitted to continue with the programme if you have acquired sufficient HEMIS credits. Refer to Part 1 (General) of the University Calendar for more information on HEMIS credits.

5. Taking BScDiet II modules in advance

If you cannot be promoted to the second year, you may take modules of the second year, provided that the class and assessment timetables permit it. You must also meet the general requirements relating to pass, co- and prerequisites as well as the continuation of modules.

Second year

1. Promotion

- a) You must pass all the modules of the second year to be promoted to BScDiet III. That means that you must obtain a final mark of at least 50% in each module.
- b) The following is considered in determining your class mark for the core subjects Therapeutic Nutrition 244, Applied Food Science 254, Food Production and Systems 214, Nutrition in the Life Cycle 214, Nutrition Status Assessment 231 and Community Nutrition 244:
 - o Your average test mark must be at least 40%.
 - o The theoretical component will contribute at least 60% to the class mark, depending on the specific module.

2. *Re-evaluation*

Re-evaluation applies to all modules of the second year.

3. *Credits in arrears*

- a) If you are only one examination-assessed module in arrears at the end of the first semester, you will be permitted to write a special examination assessment in July of the same year, provided that you obtained a final mark of at least 40% in the module. You must obtain an examination mark of at least 50% to pass the module in the special July assessment.
- b) If you are only Physiology 278 or one examination-assessed second-semester module in arrears at the end of the year, you will be permitted to write a special examination assessment in January of the next year, provided that you obtained a final mark of at least 40% in the module. You must obtain an examination mark of at least 50% to pass the module in the January assessment. If, however, you are only Practical Training 272 in arrears at the end of the year, you will not be permitted to write a special examination assessment because flexible assessment is applicable in this module.

4. *Repeating the year programme*

If you cannot be promoted to the third year, you must repeat all outstanding modules of the second year. That means that you must obtain a class mark and final mark in each outstanding module again.

5. *Taking BScDiet III modules in advance*

If you cannot be promoted to the third year, you may attend the modules of the third year, except for the Research Methods 312 module, provided that the class and assessment timetables permit it. You must also meet the general requirements relating to pass, co- and prerequisites as well as the continuation of modules.

Third year

1. *Promotion*

- a) You must pass all the modules of the third year to be promoted to BScDiet IV. That means that you must obtain a final mark of at least 50% in each module.
- b) The following is considered in determining the class mark for the core subjects Therapeutic Nutrition 378, Community Nutrition 376 and Management Principles 377:
 - o Your average test mark must be at least 40%.
 - o The theoretical component will contribute at least 60% to the class mark, depending on the specific module.

2. *Re-evaluation*

Re-evaluation applies to all modules of the third year.

3. *Credits in arrears*

- a) If you are only one examination-assessed module in arrears at the end of the first semester, you will be permitted to write a special examination assessment in July of the same year, provided that you obtained a final mark of at least 40% in the module. You must obtain an examination mark of at least 50% to pass the module in the special July assessment.
- b) If you are only one examination-assessed year or second-semester module in arrears at the end of the year, you will be permitted to write a special examination assessment in January of the next year, provided that you obtained a final mark of at least 40% in the module. You must obtain an examination mark of at least 50% to pass the module in the January assessment. If, however, you are only Practical Training 374 in arrears at the end of the year, you will not be permitted to write a special examination assessment because flexible assessment is applicable in this module.

4. *Repeating the year programme*

If you cannot be promoted to the fourth year, you must repeat all outstanding modules of the third year. That means that you must obtain a class mark and final mark in each outstanding module again.

5. *Taking BScDiet IV modules in advance*

If you cannot be promoted to the fourth year, you may follow the module Research Methodology 478, provided that you passed the modules Research Methodology 312, and Biostatistics and Epidemiology 322. You can only take Research Methodology 478 if the class and assessment timetables permit it.

Fourth year

1. *Promotion*

To pass the final assessment, you must pass all the modules of the fourth year. That means that you must obtain a final mark of at least 50% in each module.

2. *Re-evaluation*

Re-evaluation applies to all the modules of the fourth year. All re-evaluations will be taken directly after the assessment period. These re-evaluations will, however, not be taken within 48 hours after announcement of the final marks.

3. *Credits in arrears*

If you are only one examination-assessed module in arrears at the end of the year, you will be permitted to write a special examination assessment in January of the next year, provided that you obtained a final mark of at least 40% in the module.

4. *Repeating the year programme*

If you fail the final assessment in November, you must repeat the outstanding module(s) during the following year.

Enquiries

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11.4 Bachelor of Science in Physiotherapy (BScPhysio)

Specific admission requirements

- A National Senior Certificate (NSC) with university admission, endorsed by Umalusi, or an equivalent qualification with an **average of at least 60% (code 5)**
- Mathematics – code 4 (50%)
- Physical Sciences – code 4 (50%)
- Life Sciences – code 4 (50%)
- You are strongly advised to include Afrikaans as a subject for the NSC examination.

Closing date for applications

Apply by **31 July** of the previous year. Only a limited number of students are selected annually for the first year of study of this programme. Selection for the programme is carried out in terms of clear guidelines that consider both your academic and non-academic merit. Refer also to the selection guidelines at www.sun.ac.za/prospect_select.

Registration as a student in Physiotherapy with the Health Professions Council of South Africa

At the start of your first year of study, you must apply for registration as a student in Physiotherapy according to the regulations of the Health Professions Council of South Africa.

Teaching and training facilities

As of the first year of study training will predominantly occur at the Tygerberg Campus, in Tygerberg Hospital, and in various accredited local and peripheral hospitals and clinics. Your placement at a particular facility is compulsory. Only in highly exceptional and motivated cases will you be permitted to exchange placements with other students. In the first year, certain practicals of first-semester modules will be offered on the Stellenbosch Campus.

Compulsory vacation work

You must gain experience in nursing as part of the degree programme in Physiotherapy before you start with the clinical module of the second year. You must also gain experience in clinical physiotherapy as an elective during a vacation in your final year of study.

Clinical exposure

Clinical training of students takes place on primary, secondary and tertiary levels of the South African health care system, as well as at several institutions which fall under the Department of Education. Urban and rural rotations are used.

Allocation of final marks – non-Physiotherapy modules

In instances where it is deviated from the general provisions, the Undergraduate Programme Committee of the Division of Physiotherapy will provide information at the beginning of the year on how the final marks concerned will be calculated.

You must take the written assessment in all modules of the first semester during the assessment period at the end of the first semester.

Calculation of the flexible assessment mark for all Physiotherapy modules

The total number of assessments, and the individual weights that they contribute to the final mark, will be decided by the Undergraduate Programme Committee of the Division of Physiotherapy regarding the specific context and scope of the modules in the programme. The Division will use the guidelines stipulated in Part 1 (General) of the University Calendar as point of departure when deciding on the number of assessments and individual weights.

Renewal of registration as a student

- a) If you still do not meet the requirements for a pass in a particular year of study after a second attempt, you must apply for readmission to the programme.
- b) If you do not comply with the requirements for a pass on the first occasion in two consecutive years of study of the programme, you must apply for readmission to the programme.
- c) If you discontinue the programme and want to resume at a later stage, you must reapply for admission to the programme. Your application will be considered by the Undergraduate Programme Committee of the Division of Physiotherapy for a recommendation to the Committee for Undergraduate Teaching of the Faculty of Medicine and Health Sciences.

Programme composition

Consult the chapter “Subjects, Modules and Module Contents” of this Calendar part for more information regarding the contents of modules.

First year

Compulsory modules

Chemistry for Health Sciences	112(8)
Special Physics	111(8)
Anatomy	178(20)
Physiotherapy Science	152(40)
Psychology	144(12)
Becoming a Health Professional	111(20)
Human Physiology	171(20)
Clinical Physiotherapy	121(8)

Second year

Compulsory modules

Physiology	278(26)
Anatomy	211(12)
Anatomical Pathology	221(3)
Physiotherapy Science	272(75)
Clinical Physiotherapy	254(5)
Pathology	254(7)

Third year

Compulsory modules

Pathology	312(2), 334(8)
Research Methods (Physiotherapy)	372(10)
Applied Physiotherapy	373(66)
Clinical Physiotherapy	374(40)

Fourth year

Compulsory modules

Research Methods (Physiotherapy)	472(10)
Applied Physiotherapy	473(19)
Clinical Physiotherapy	474(96)
Physiotherapy Practice	474(4)

Assessment and promotion provisions

The general provisions for readmission after unsuccessful study and for the continuation of a module as stipulated in Part 1 (General) of the University Calendar, are also applicable to this programme.

Below are the assessment and promotion provisions as applicable to each year of study of the programme.

The following rules apply to absence during assessments:

- If you become ill during the assessment opportunity in a module, you must complete the assessment session.
- If you become ill before the assessment opportunity in a module, you are strongly advised to take the re-evaluation or supplementary assessment for examination-assessed modules or the next available assessment opportunity for flexibly assessed modules according to the assessment and promotion provisions for the specific academic year of the programme.
- If you provide substantiating evidence that you could not take the assessment due to illness or for any other valid reason, you may use the re-evaluation or supplementary assessment as the first and only assessment opportunity for examination-assessed modules or the next available assessment opportunity for flexibly assessed modules.
- If you cannot use the re-evaluation or supplementary assessment opportunity for examination-assessed modules for any reason, or the minimum number of assessments for flexibly assessed modules, no further opportunities will be allowed, and you will have to register for the module again in the following year.

First year

1. Promotion

- a) You must pass all the modules of the first year to be promoted to BScPhysio II. That means that you must obtain a final mark of at least 50% in each module.

- b) A system of flexible assessment applies to the modules Anatomy 178, Becoming a Health Professional 111, Chemistry for Health Sciences 112, Clinical Physiotherapy 121 and Physiotherapy Science 152. Assignments, projects, tutorials, theory tests and practical assessments are used to determine the final mark.
- c) Written assessments in all examination-assessed modules (Human Physiology 171, Psychology 144 and Special Physics 111) must be taken in the assessment period at the end of the relevant semester.

2. *Credits in arrears*

If you are only one examination-assessed module in arrears at the end of the second semester, you will be permitted to write a special examination assessment in January of the next year, if you obtained a final mark of at least 40% in the module. You must obtain an examination mark of at least 50% to pass the module in the January assessment. If you are Anatomy 178, Becoming a Health Professional 111, Chemistry for Health Sciences 112, Clinical Physiotherapy 121 and Physiotherapy Science 152, which are assessed on a flexible basis, in arrears, you will not be permitted to write the special examination assessment.

3. *Re-evaluation*

- a) Re-evaluation applies to Human Physiology 171, Psychology 144 and Special Physics 111 of the first year. You must obtain a final mark of at least 40% to qualify for re-evaluation.
- b) All re-evaluations will be done directly after the assessment period, but not within 48 hours of announcement of the final marks. You must obtain a mark of at least 50% in the re-evaluation to pass the module. Your final mark after re-evaluation will not be less than the original final mark but will also not be more than 50%.

4. *Repeating the year programme*

If you cannot be promoted to the second year, you must repeat all outstanding modules of the first year. That means that you must obtain a final mark in each outstanding module again. You will be permitted to continue with the programme if you have acquired sufficient HEMIS credits. Refer to Part 1 (General) of the Calendar for more information on HEMIS credits.

5. *Taking BScPhysio II modules in advance*

Modules of BScPhysio II may not be taken in advance.

Second year

1. *Promotion*

- a) You must pass all the modules of the second year to be promoted to BScPhysio III.
- b) There will be no final examination assessment in Anatomical Pathology 221. The class mark will be the final mark. You must obtain an average of 50% to pass this module. You will qualify for an assessment in which you can improve your marks at the end of the second semester if you do not meet the pass requirements.

2. *Reassessment*

- a) Reassessment applies to all modules of the second year, except Physiotherapy Science 272 and Clinical Physiotherapy 254. These modules are assessed on a flexible basis.
- b) You must obtain a final mark of at least 40% in a module to qualify for reassessment. All reassessments will be done directly after the assessment period, but not within 48 hours of announcement of the final marks. You must obtain a mark of at least 50% in the reassessment to pass the module. Your final mark after reassessment will not be less than the original final mark but will also not be more than 50%.

3. *Credits in arrears*

If you are only one module out of Anatomy 211, Anatomical Pathology 221, Physiology 278 or Pathology 254 in arrears at the end of the year, you will be permitted to write a special examination assessment in January of the next year, provided that you obtained a final mark of at least 40%. You must obtain an examination mark of at least 50% to pass the module in the January assessment. Your final mark after the special examination assessment will not be less than the original final mark, but will also not be more than 50%.

4. *Repeating the year programme*

If you cannot be promoted to the third year, you must repeat all outstanding modules of the second year. That means that you must obtain a final mark in each outstanding module again. You will be allowed to continue with the programme if you have obtained sufficient HEMIS credits. Refer to Part 1 (General) of the Calendar for more information on HEMIS credits.

5. *Taking BScPhysio III modules in advance*

- a) If you cannot be promoted to the third year because you failed Physiotherapy Science 272, you may attend the following third-year module, provided that the class and assessment timetables permit it:
 - Pathology 334.
- b) If you cannot be promoted to the third year because you failed Clinical Physiotherapy 254 and/or Pathology 254, you may attend the following third-year modules, provided that the class and assessment timetables permit it:
 - Pathology 312 and 334.

Third year

1. *Promotion*

You must pass all the modules of the third year to be promoted to BScPhysio IV.

2. *Reassessment*

- a) Reassessment only applies to Pathology 312 and 334.
- b) You must obtain a final mark of at least 40% in a module to qualify for reassessment. All reassessments will be done directly after the assessment period, but not within 48 hours of announcement of the final marks. You must obtain a mark of at least 50% in the reassessment to pass the module. Your final mark after reassessment will not be less than the original final mark but will also not be more than 50%.

3. *Credits in arrears*

If you are in arrears in respect of only Pathology 334 or Pathology 312 at the end of the year, you will be permitted to write a special examination assessment in January of the next year, provided that you obtained a final mark of at least 40% in the module.

If you are in arrears with Applied Physiotherapy 373 due to Pharmacology at the end of the year, you will be permitted to write a special test in this theme in January of the following year. You must obtain a mark of at least 50% in the special test to comply with the promotion regulations of the module. If you pass the test, a mark of no more than 50% will be used to calculate your final mark for the Applied Physiotherapy 373 module.

4. *Repeating the year programme*

If you cannot be promoted to the fourth year, you must repeat all outstanding modules of the third year. That means that you must obtain a final mark in each outstanding module again.

5. *Taking BScPhysio IV modules in advance*

If you are only Clinical Physiotherapy 374 and/or Applied Physiotherapy 373 in arrears, you may take Research Methods (Physiotherapy) 472, provided that the class and assessment timetables permit it.

Fourth year

1. *Promotion*

You must pass all the modules of the fourth year to pass the programme. Flexible assessment applies to all modules in the fourth year of study.

2. *Repeating the year programme*

If you do not meet the pass requirements, you must repeat all outstanding modules of the fourth year. That means that you must obtain a final mark in each outstanding module again.

Enquiries

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11.5 Bachelor of Speech-Language and Hearing Therapy (BSL and HT)

Specific admission requirements

- A National Senior Certificate (NSC) with university admission, endorsed by Umalusi, or an equivalent qualification with an **average of at least 60% (code 5)**
- Two of the following three languages: English (Home Language or First Additional Language) and/or Afrikaans (Home Language or First Additional Language) and/or a third South African language – code 5 (60%)
- Physical Sciences or Life Sciences – code 4 (50%)

Closing date for applications

Apply by **31 July** of the previous year. Only a limited number of students are selected annually for the first year of study of this programme. Selection for the programme is carried out in terms of clear guidelines that take into account both your academic and non-academic merit. Refer also to the selection guidelines at www.sun.ac.za/prospect_select.

Teaching and training facilities

During the first two years of study, training will predominantly occur at the Stellenbosch Campus, and as of the third year at the Tygerberg Campus, in Tygerberg Hospital, and in various accredited local and peripheral hospitals and clinics. Your placement at a particular facility is compulsory. Only in highly exceptional and motivated cases will you be permitted to exchange facilities with other students.

Allocation of final marks

In instances where it is deviated from the general provisions, the relevant academic division will provide information at the beginning of the year on how the final marks concerned will be calculated.

Renewal of registration as a student

- a) If you still do not meet the requirements for a pass in a particular year of study after a second attempt, you must apply anew for readmission to the programme.
- b) If you do not comply with the requirements for a pass on the first occasion in two consecutive years of study of the programme, you must apply anew for readmission to the programme.
- c) If you discontinue the programme and want to resume at a later stage, you must apply anew for admission to the programme. Your application will be considered by the Undergraduate Programme Committee of the Division of Speech-Language and Hearing Therapy for a recommendation to the Committee for Undergraduate Teaching.

Programme composition

Consult the chapter “Subjects, Modules and Module Contents” of this Calendar part for more information regarding the contents of modules.

First year

Compulsory modules

Please note: You are placed in one of the Afrikaans Language Acquisition modules or the Xhosa module according to the results of a language proficiency test.

Afrikaans Language Acquisition	178(24) or 188(24)
OR	
Xhosa	178(24)
General Linguistics	178(24)
Information Skills	172(6)
Clinical Speech Pathology	184(12)
Psychology	114(12), 144(12)
Speech Pathology	121(12), 122(12), 142(6), 162(12)
Applied Anatomy	117(12)

Second year

Compulsory modules

Speech Pathology	211(8), 222(6), 242(6), 251(6), 252(6), 278(24)
Clinical Speech Pathology	274(26)
General Linguistics	278(32)
Psychology	213(8), 223(8), 243(8), 253(8)

Third year

Compulsory modules

Speech Pathology	331(12), 332(12), 364(10), 378(24)
Neuroanatomy and Clinical Neurology	372(14)
Clinical Speech Pathology	374(48)

Fourth year

Compulsory modules

Speech Pathology	411(6), 413(12), 478(24)
Clinical Speech Pathology	474(64)
Research Report	472(14)

Assessment and promotion provisions

The general provisions for readmission after unsuccessful study and for the continuation of a module as stipulated in Part 1 (General) of the University Calendar, are also applicable to this programme. In the case of reassessment, as applicable to the respective years of study, a mark of 50% will be awarded if you obtain a mark of 50% or more in the re-assessment.

Below are the assessment and promotion provisions as applicable to each year of study of the programme.

The following rules apply to absence during assessments:

- If you become ill during the assessment opportunity in a module, you must complete the assessment session.
- If you become ill before the assessment opportunity in a module, you are strongly advised to take the re-evaluation or supplementary assessment for examination-assessed modules or the next available assessment opportunity for flexibly assessed modules according to the assessment and promotion provisions for the specific academic year of the programme.
- If you provide substantiating evidence that you could not take the assessment due to illness or for any other valid reason, you may use the re-evaluation or supplementary assessment as the first and only assessment opportunity for examination-assessed modules or the next available assessment opportunity for flexibly assessed modules.
- If you cannot use the re-evaluation or supplementary assessment opportunity for examination-assessed modules for any reason, or the minimum number of assessments for flexibly assessed modules, no further opportunities will be allowed and you will have to register for the module again in the following year.

First year

1. Promotion

You must pass all the modules of the first year, including all the components of Clinical Speech Therapy 184, to be promoted to BSL and HT II. That means that you must obtain a final mark of at least 50% in each module and in the practical component of Clinical Speech Therapy 184. To be promoted to the module Speech Pathology (Basic Audiometry) 162, you must have passed Speech Pathology (Speech and Hearing Sciences) 121.

If you are only the following modules in arrears, you may proceed to the second year of study of the programme, provided that the class and assessment timetables permit it:

- Psychology 114 or 144;
- Applied Anatomy 117;
- Afrikaans Language Acquisition 178 or 188, Xhosa 178; and
- Information Skills 172.

2. Re-evaluation

Re-evaluation only applies in the modules in Speech-Language and Hearing Therapy. The examination policy as determined by the respective home departments, usually stipulated under the heading “University Examinations” in “Provisions Relating to Examinations and Promotion” in Part 1 (General) of the University Calendar applies to the other modules.

3. Credits in arrears

If you are only one examination-assessed Speech Pathology module in arrears at the end of the first year of study, you will be permitted to write a special examination assessment in December of that year or in January of the next year, provided that you obtained a final mark of at least 40% in the module. You only qualify for one special examination assessment per year of study because this concession applies exclusively to cases where only one module is outstanding.

If you are one examination-assessed first-semester Speech Pathology module in arrears, and the outstanding module serves as a prerequisite for one or more Speech Pathology modules in the second semester, you will be allowed a third examination assessment opportunity in the outstanding module *before the start of the second semester*. You will not be given a further third examination assessment opportunity if you are one module in arrears in the second semester.

Special examination assessments are not permitted in modules assessed by means of flexible assessment.

The dates for special examination assessments are determined by the lecturer responsible for the specific module.

For modules offered by other faculties, the examination policy as stipulated under the chapter “University Examinations” in “Provisions Relating to Examinations and Promotion” in Part 1 (General) of the Calendar is applicable.

4. Repeating the year programme

- a) If you cannot be promoted to the second year, you must repeat all outstanding modules of the first year. That means that you must obtain a class mark in each outstanding module again.
- b) You must repeat the clinical module and obtain a certificate of satisfactory attendance, even if you achieved a pass mark for this module.

Second year

1. Promotion

You must pass all the modules of the second year, including all the components of Clinical Speech Pathology 274, to be promoted to BSL and HT III. That means that you must obtain a final mark of at least 50% in each module and in the practical component of Clinical Speech Pathology 274.

2. Re-evaluation

Re-evaluation applies to all second-year Speech Pathology modules of the programme, except Speech Pathology (Language Disorders) 278. This module is assessed by means of flexible assessment. General Linguistics 278 and Psychology 213, 223, 243 and 253 follow the examination policy determined by the respective home departments, usually as stipulated under the heading “University Examinations” in “Provisions Relating to Examinations and Promotion” in Part 1 (General) of the Calendar.

3. *Credits in arrears*

If you are only one examination-assessed Speech Pathology module in arrears at the end of the second year of study, you will be permitted to write a special examination assessment in December of that year or in January of the next year, provided that you obtained a final mark of at least 40% in the module. You only qualify for one special examination assessment per year of study because this concession applies exclusively to cases where only one module is outstanding.

If you are one examination-assessed first-semester Speech Pathology module in arrears, and the outstanding module serves as a prerequisite for one or more Speech Pathology modules in the second semester, you will be allowed a third examination assessment opportunity in the outstanding module *before the start of the second semester*. You will not be given a further third examination assessment opportunity if you are one module in arrears in the second semester.

Special examination assessments are not permitted in modules assessed by means of flexible assessment.

The dates for special examination assessments are determined by the lecturer responsible for the specific module.

For modules offered by other faculties, the examination policy as stipulated under the chapter “University Examinations” in “Provisions Relating to Examinations and Promotion” in Part 1 (General) of the Calendar is applicable.

4. *Repeating the year programme*

- a) If you cannot be promoted to the third year, you must repeat all outstanding modules of the second year. That means that you must obtain a class mark in each outstanding module again.
- b) You must repeat the clinical module and obtain a certificate of satisfactory attendance, even if you achieved a pass mark for this module.

Third year

1. *Promotion*

You must pass all the modules of the third year, including all the components of Clinical Speech Pathology 374, to be promoted to BSL and HT IV. That means that you must obtain a final mark of at least 50% in each module and in the practical component of Clinical Speech Pathology 374.

2. *Re-evaluation*

Re-evaluation applies to all third-year Speech Pathology modules of the programme, except Speech Pathology (Neurogenic Communication Disorders) 378 and Speech Pathology (Introduction to Research as a Professional Function) 364 which are assessed by means of flexible assessment.

3. *Credits in arrears*

If you are only one examination-assessed Speech Pathology module in arrears at the end of the third year of study, you will be permitted to write a special examination assessment in December of that year or in January of the next year, provided that you obtained a final mark of at least 40% in the module. You only qualify for one special examination assessment per year of study because this concession applies exclusively to cases where only one module is outstanding.

If you are one examination-assessed first-semester Speech Pathology module in arrears, and the outstanding module serves as a prerequisite for one or more Speech Pathology modules in the second semester, you will be allowed a third examination assessment opportunity in the outstanding module *before the start of the second semester*. You will not be given a further third examination assessment opportunity if you are one module in arrears in the second semester.

Special examination assessments are not permitted in modules assessed by means of flexible assessment.

The dates for special examination assessments are determined by the lecturer responsible for the specific module.

4. *Repeating the year programme*

- a) If you cannot be promoted to the fourth year, you must repeat all outstanding modules of the third year. That means that you must obtain a class mark in each outstanding module again.
- b) You must repeat the clinical module and obtain a certificate of satisfactory attendance, even if you achieved a pass mark for this module.

Fourth year

1. *Promotion*

The module Speech Pathology (Advanced Seminars in Speech-Language and Hearing Therapy) 478 is assessed by means of flexible assessment. There is no examination assessment opportunity for this module. You must obtain a final mark of 50% in this module to pass.

2. *Final assessment*

You pass the final assessment if you pass all the modules of the fourth year. That means that you must obtain a final mark of at least 50%. You must also achieve a mark of at least 50% in the practical component of Clinical Speech Pathology 474.

3. *Re-evaluation*

Re-evaluation applies to all fourth-year modules of the programme, except Speech Pathology (Advanced Seminars in Speech-Language and Hearing Therapy) 478 which is assessed by means of flexible assessment.

4. *Improvement of final mark*

If you failed Research Report 472 in November and obtained a final mark of at least 40%, you may improve your final mark until the end of January of the next year.

5. *Repeating the year programme*

- a) If you do not meet the pass requirements, you must repeat all outstanding modules of the fourth year. That means that you must obtain a class mark in each outstanding module again.
- b) You must repeat the clinical module and obtain a certificate of satisfactory attendance, even if you achieved a pass mark for this module.

Enquiries

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11.6 Bachelor of Nursing (BNur)

Please note: The change in the name of this degree programme is subject to approval by SAQA (South African Qualifications Authority).

Specific admission requirements

- A National Senior Certificate (NSC) with university admission, endorsed by Umalusi, or an equivalent qualification with an average of at least 50% (code 4)
- Mathematics – code 3 (40%) or Mathematical Literacy – code 6 (70-79%)
- Life Sciences – code 4 (50%).

Closing date for applications

Apply by **31 July** of the previous year. Only a limited number of students are selected annually for the first year of study of the B of Nursing programme. Selection is carried out in terms of clear guidelines that take into account both your academic and non-academic merit. Refer also to the selection guidelines at: www.sun.ac.za/prospect_select – click on “Apply” and then choose “Admission and Selection Requirements”.

Registration as a student in nursing with the South African Nursing Council

At the start of your first year of study, you must register as a learner with the South African Nursing Council, according to the Council’s regulations.

Compulsory class attendance

There is proof that class attendance and student success correlate with each other. Because of the impact that student learning in health sciences has on patients, you must attend all contact sessions (lectures, practicals, tutorials, clinical placement, etc.). Your attendance will also be monitored. If such monitoring indicates that you have attended less than 80% of contact sessions without valid reasons, a class mark of less than 50% may be awarded for the relevant module.

Compulsory clinical exposure

You must acquire compulsory clinical learning and experience as part of the B of Nursing programme. Placement for this will be done in various accredited health care related environments and health care facilities.

The clinical learning platform utilises environments and facilities in primary, secondary and tertiary levels of the South African health care system. These range from non-governmental organisations to state and private health care service providers.

You will be placed in accredited environments and facilities in urban, peri-urban and rural settings.

Compulsory clinical experience during vacation periods

As a BNur student, you must acquire clinical experience during some vacation periods in the academic year. For this you will be placed in various health care environments and facilities.

The specific periods and duration of placement depend on your year of study.

Teaching and training facilities

From your first year of study all tuition will predominantly occur at the Tygerberg Campus and in various accredited clinical facilities, including health-related environments, hospitals and clinics in Cape Town and surrounding areas in the Western Cape Province. This placement at clinical facilities is compulsory in order to achieve the clinical learning outcomes of the programme. Only in highly exceptional and specifically motivated cases will you be permitted to exchange a clinical facility placement with another student.

Allocation of final marks

Where the allocation of final marks deviates from the general provisions, the academic division concerned will provide information at the beginning of the year on how the final marks concerned will be calculated.

Renewal of registration as a student

- a) If you still do not meet the requirements for a pass in a particular year of study after a second attempt, you must apply for readmission to the programme.
- b) If you do not comply with the requirements for a pass on the first occasion in two consecutive years of study of the programme, you must apply for readmission to the programme.
- c) If you discontinue the programme and want to resume at a later stage, you must reapply for admission to the programme. Your application will be considered by the Undergraduate Programme Committee of the Department of Nursing and Midwifery for a recommendation to the Committee for Undergraduate Teaching of the Faculty of Medicine and Health Sciences.

Programme composition

Consult the chapter “Subjects, Modules and Module Contents” of this Calendar part for more information regarding the contents of modules.

First year

Compulsory modules

Foundations of Nursing and Midwifery Sciences	171(20) (This module is a prerequisite pass module for Contextual Health and Nursing Care, Contextual Health and Nursing Care Practice, and Praxis of Nursing and Midwifery Sciences II.)
Foundations of Nursing and Midwifery Sciences: Practice	171(20) (This module is a prerequisite pass module for Contextual Health and Nursing Care, and Contextual Health and Nursing Care: Practice.)
Introduction to Biochemistry and Biophysics	141(10) (this module is a prerequisite pass module for Pharmacology and Dispensing Practice)
Essentials of Human Anatomy	171(24) (This module is a prerequisite pass module for Essentials of Human Physiology, Contextual Health and Nursing Care II, Contextual Health and Nursing Care: Practice II, Mental Health across the Lifespan, Maternal and Newborn Care I, and Maternal and Newborn Care: Practice I.)
Psychosocial Aspects of Care	141(12) (This module is a prerequisite pass module for Mental Health across the Lifespan.)
Applied Microbiology	141(10)
Praxis of Nursing and Midwifery Sciences I	171(24) (This module is a prerequisite pass module for Praxis of Nursing and Midwifery Sciences II, and Research in Context I.)

Second year

Compulsory modules

Pharmacology and Dispensing Practice	231(12) (This module is a prerequisite pass module for Contextual Health and Nursing Care II, Contextual Health and Nursing Care: Practice II, Mental Health across the Lifespan; Maternal and Newborn Care I, and Maternal and Newborn Care: Practice I.)
Contextual Health and Nursing Care I	271(24) (This module is a prerequisite pass module for Contextual Health and Nursing Care II, Contextual Health and Nursing Care: Practice II, Mental Health across the Lifespan, Maternal and Newborn Care I, and Maternal and Newborn Care: Practice I.)
Contextual Health and Nursing Care: Practice I	271(24) (This module is a prerequisite pass module for Contextual Health and Nursing Care II, Contextual Health and Nursing Care: Practice II, Mental Health across the Lifespan, Maternal and Newborn Care I, and Maternal and Newborn Care: Practice I.)
Essentials of Human Physiology	271(24) (This module is a prerequisite pass module for Contextual Health and Nursing Care II, Contextual Health and Nursing Care: Practice II, Mental Health across the Lifespan, Maternal and Newborn Care I, and Maternal and Newborn Care: Practice I.)
Research in Context I	241(12) (This module is a prerequisite pass module for Research in Context II.)
Praxis of Nursing and Midwifery Sciences II	271(24) (This module is a prerequisite pass module for Praxis of Nursing and Midwifery Sciences III.)

Third year*Compulsory modules*

Mental Health across the Lifespan	331(12) (This module is a prerequisite pass module for Community Health Promotion and Community Health Promotion: Practice.)
Mental Health across the Lifespan: Practice	331(10) (This module is a prerequisite pass module for Community Health Promotion and Community Health Promotion: Practice.)
Contextual Health and Nursing Care II	371(24) (This module is a prerequisite pass module for Contextual Health and Nursing Care III, Contextual Health and Nursing Care: Practice III, Community Health Promotion, and Community Health Promotion: Practice.)
Contextual Health and Nursing Care: Practice II	371(24) (This module is a prerequisite pass module for Contextual Health and Nursing Care III, Contextual Health and Nursing Care: Practice III, Community Health Promotion, and Community Health Promotion Practice.)
Maternal and Newborn Care I	341(14) (This module is a prerequisite pass module for Maternal and Newborn Care II, Maternal and Newborn Care: Practice II, Community Health Promotion, and Community Health Promotion: Practice.)
Maternal and Newborn Care: Practice I	341(12) (This module is a prerequisite pass module for Maternal and Newborn Care II, Maternal and Newborn Care: Practice II, Community Health Promotion, and Community Health Promotion: Practice.)
Praxis of Nursing and Midwifery Sciences III	371(24) (This module is a prerequisite pass module for Praxis of Nursing and Midwifery Sciences IV, Global Health Care Sciences, and Global Health Sciences: Practice.)

Fourth year*Compulsory modules*

Community Health Promotion	441(12)
Community Health Promotion: Practice	441(12)
Contextual Health and Nursing Care III	431(12)
Contextual Health and Nursing Care: Practice III	431(12)
Maternal and Newborn Care II	431(14)
Maternal and Newborn Care: Practice II	471(12)
Research in Context II	471(14)
Praxis of Nursing and Midwifery Sciences IV	431(12)
Global Health Care Sciences	441(10)
Global Health Care Sciences: Practice	441(10)

Assessment and promotion provisions

The general provisions for readmission after unsuccessful study and for the continuation of a module as stipulated in Part 1 of the University Calendar, also apply to this programme.

Below are the specific assessment and promotion provisions for each year of study of the B of Nursing programme.

The following rules apply to absence during assessments:

- If you become ill during the assessment opportunity in a module, you must complete the assessment session.
- If you become ill before the assessment opportunity in a module, you are strongly advised to take the re-evaluation or supplementary assessment for examination-assessed modules or the next available assessment opportunity for flexibly assessed modules according to the assessment and promotion provisions for the specific academic year of the programme.
- If you provide substantiating evidence that you could not take the assessment due to illness or for any other valid reason, you may use the re-evaluation or supplementary assessment as the first and only assessment opportunity for examination-assessed modules or the next available assessment opportunity for flexibly assessed modules.
- If you cannot use the re-evaluation or supplementary assessment opportunity for examination-assessed modules for any reason, or the minimum number of assessments for flexibly assessed modules, no further opportunities will be allowed and you will have to register for the module again in the following year.

First year

1. Promotion

- a) You must pass all modules of the first year to be promoted to B of Nursing II. That means you must obtain a final mark of at least 50% in each module.
- b) A system of flexible assessment applies to the following modules:
 - o Foundations of Nursing and Midwifery Sciences
 - o Foundations of Nursing and Midwifery Sciences: Practice
 - o Praxis of Nursing and Midwifery Sciences I.
 Assignments, projects, tutorials, theory tests and practical assessments are used to determine your final mark.
- c) If you fail the first year of study and wish to repeat the year, you must be selected for the programme again.

2. Re-evaluation

Re-evaluation applies to all modules of the first year except Foundations of Nursing and Midwifery Sciences, Foundations of Nursing and Midwifery Sciences: Practice, and Praxis of Nursing and Midwifery Sciences I, which are subject to flexible assessment. To qualify for re-evaluation in a module, you must obtain a final mark of at least 40%. All re-evaluations will be done directly after the assessment period. These re-evaluations will, however, not be done within 48 hours of announcement of the final marks. You must achieve a mark of at least 50% in the re-evaluation to pass the module. The final mark after re-evaluation will not be less than the original final mark but will also not be more than 50%.

3. Reassessment in the modules *Foundations of Nursing and Midwifery Sciences, Foundations of Nursing and Midwifery Sciences: Practice, and Praxis of Nursing and Midwifery Sciences I.*

- a) As mentioned earlier, the above-mentioned modules are subject to flexible assessment. If you obtain a mark of less than 40% in an assessment opportunity in any of these modules, you will have a reassessment opportunity. The reassessment will be done directly after the mark of the first assessment opportunity is announced, but not within 48 hours of the mark being announced.
- b) If you obtain 40% to 49% in the original assessment opportunity, you have the choice to make use of the reassessment opportunity to improve your mark.
- c) Your mark after reassessment will not be less than the original, but also not more than 50%.
- d) You must obtain at least 40% in each reassessment to pass the module as a whole, provided that your average final mark for the module as a whole must be at least 50%.

4. Credits in arrears

- a) If you are only one examination-assessed module in arrears at the end of the first semester, you will be able to write a special examination assessment in July of the same year, provided that you have obtained a final mark in that module of at least 40%. In order to pass the module in the July special assessment, you must obtain an examination mark of at least 50%.
- b) If you are only one examination-assessed second-semester module in arrears at the end of the year, you will be able to write a special examination assessment in January of the next year, provided that your final mark for that module was at least 40%. In order to pass the module in the January special assessment, you must obtain an examination mark of at least 50%.
- c) There are no special examination assessments for Foundations of Nursing and Midwifery Sciences, Foundations of Nursing and Midwifery Sciences: Practice, and Praxis of Nursing and Midwifery Sciences I since these modules are assessed by means of flexible assessment.

5. Repeating the first-year programme

If you cannot be promoted to the second year, you must repeat all the outstanding modules of the first year and obtain a new final mark for each outstanding module. You will be permitted to continue with the programme if you have acquired enough HEMIS credits. Refer to Part 1 of the University Calendar for more information on HEMIS credits.

6. Taking B of Nursing II modules in advance

If you cannot be promoted to the second year, you may take the following second-year modules in advance. You must have passed the prerequisite modules for these modules and the class and assessment timetables must permit it. The modules are:

- Essentials of Human Physiology and
- Research in Context I.

Second year

1. Promotion

- a) You must pass all modules of the first and second year to be promoted to B of Nursing III. That means you must obtain a final mark of at least 50% in each module of the first and second year.
- b) A system of flexible assessment applies to the following second-year modules:
 - o Praxis of Nursing and Midwifery Sciences II
 - o Contextual Health and Nursing Care I

- Contextual Health and Nursing Care: Practice I
- Research in Context I

Assignments, projects, tutorials, theory tests and practical assessments are used to determine your final mark.

2. *Re-evaluation*

Re-evaluation applies to all modules of the second year except Praxis of Nursing and Midwifery Sciences II, Contextual Health and Nursing Care I, Contextual Health and Nursing Care: Practice I, and Research in Context I, which are subject to flexible assessment. To qualify for re-evaluation in a module, you must obtain a final mark of at least 40%. All re-evaluations will be done directly after the assessment period. These re-evaluations will, however, not be done within 48 hours of announcement of the final marks. You must achieve a mark of at least 50% in the re-evaluation to pass the module. The final mark after re-evaluation will not be less than the original final mark but will also not be more than 50%.

3. *Reassessment in the modules Praxis of Nursing and Midwifery Sciences II, Contextual Health and Nursing Care I, Contextual Health and Nursing Care: Practice I, and Research in Context I*

- a) As mentioned earlier, the above-mentioned modules are subject to flexible assessment. If you obtain a mark of less than 40% in an assessment opportunity in any of these modules, you will have a reassessment opportunity. The reassessment will be done directly after the mark of the first assessment opportunity is announced, but not within 48 hours of the test mark being announced.
- b) If you obtain 40% to 49% in the original assessment opportunity, you have the choice to make use of the reassessment opportunity to improve your mark.
- c) Your mark after reassessment will not be less than the original, but also not more than 50%.
- d) You must obtain at least 40% in each reassessment to pass the module as a whole, provided that your average final mark for the module as a whole must be at least 50%.

4. *Credits in arrears*

- a) If you are only one examination-assessed module in arrears at the end of the first semester, you will be able to write a special examination assessment in July of the same year, provided that you have obtained a final mark in that module of at least 40%. In order to pass the module in the July special assessment, you must obtain an examination mark of at least 50%.
- b) If you are only one examination-assessed second-semester module in arrears at the end of the year, you will be able to write a special examination assessment in January of the next year, provided that your final mark for that module was at least 40%. In order to pass the module in the January special assessment, you must obtain an examination mark of at least 50%.
- c) There are no special examination assessments for Praxis of Nursing and Midwifery Sciences II, Contextual Health and Nursing Care I, Contextual Health and Nursing Care: Practice I, and Research in Context I since these modules are assessed by means of flexible assessment.

5. *Repeating the second-year programme*

If you cannot be promoted to the third year, you must repeat all the outstanding modules of the second year and/or first year and obtain a new final mark for each outstanding module.

6. *Taking B of Nursing III modules in advance*

If you cannot be promoted to the third year, you may take the following third-year modules in advance. You must have passed the prerequisite modules for these modules and the class and assessment timetables must permit it. The modules are:

- Mental Health across the Lifespan and
- Mental Health across the Lifespan: Practice.

Third year

1. *Promotion*

- a) You must pass all modules of the third year to be promoted to B of Nursing IV.
- b) A system of flexible assessment is followed in all the modules of the third year.

2. *Reassessment*

The following provisions apply to all the modules in the third year:

- a) As mentioned above, all the modules of the third year are subject to flexible assessment. If you obtain a mark of less than 40% in an assessment opportunity in any of these modules, you will have a reassessment opportunity. The reassessment will be done directly after the mark of the first assessment opportunity is announced, but not within 48 hours of the test mark being announced.
- b) If you obtain 40% to 49% in the original assessment opportunity, you have the choice to make use of the reassessment opportunity to improve your mark.
- c) Your mark after reassessment will not be less than the original, but also not more than 50%.
- d) You must obtain at least 40% in each reassessment to pass the module as a whole, provided that your average final mark for the module as a whole must be at least 50%.

3. *Repeating the third-year programme*

If you cannot be promoted to the third year, you must repeat all the outstanding modules of the third year and obtain a new final mark for each outstanding module.

4. *Taking B of Nursing IV modules in advance*

If you cannot be promoted to the fourth year, you may take the following fourth-year module in advance. You must have passed the prerequisite modules for this module and the class and assessment timetables must permit it. The module is: Research in Context II.

Fourth year

1. *Promotion*

- a) You must pass all modules of the fourth year to pass the full programme.
- b) A system of flexible assessment is followed in all the modules of the fourth year.

2. *Reassessment*

The following provisions apply to all the modules in the fourth year:

- a) As mentioned above, all the modules of the fourth year are subject to flexible assessment. If you obtain a mark of less than 40% in an assessment opportunity in any of these modules, you will have a reassessment opportunity. The reassessment will be done directly after the mark of the first assessment opportunity is announced, but not within 48 hours of the test mark being announced.
- b) If you obtain 40% to 49% in the original assessment opportunity, you have the choice to make use of the reassessment opportunity to improve your mark.
- c) Your mark after reassessment will not be less than the original, but also not more than 50%.
- d) You must obtain at least 40% in each reassessment to pass the module as a whole, provided that your average final mark for the module as a whole must be at least 50%.

3. *Repeating the fourth-year programme*

If you do not pass the fourth year, you must repeat all the outstanding modules and obtain a new final mark for each outstanding module.

Enquiries

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12. Sport Science programmes

Interfaculty presentation

The Faculty of Arts and Social Sciences awards the BA (Sport Science) degree and the Faculty of Science the BSc (Sport Science) degree. The programme descriptions that appear below are the same as in Part 4 (Arts and Social Sciences) and Part 5 (Science) of the University Calendar.

For the descriptions of the individual modules offered in these faculties, see "Subjects, Modules and Module Content" in the relevant Calendar part.

Further study possibilities

After obtaining a BA (Sport Science) or BSc (Sport Science) degree, you may apply for admission to one or more of the postgraduate programmes listed below:

- Postgraduate Certificate in Education (PGCE) followed, if desired, by BEdHons
- BScHons (Biokinetics) (applications close on 31 July)
- BScHons (Sport Science, Specialisation: Performance Sport or Specialisation: Kinderkinetics) (applications close on 31 July)
- BAHons or BScHons in the major subject other than Sports Science taken for the bachelor's degree.

12.1 Bachelor of Arts in Sport Science (BA (Sport Science))

Please note: This programme is offered by the Faculty of Arts and Social Sciences.

Specific admission requirements

- A National Senior Certificate (NSC) or school-leaving certificate of the Independent Examination Board (IEB) as certified by Umalusi with a mark of at least 4 in each of four recognised school subjects with a credit value of 20
- An average percentage for the NSC or the IEB school-leaving certificate (excluding Life Orientation) of 60%
- Home Language (Afrikaans or English) code 4 (50%)
- First Additional Language code 3 (40%)
- Mathematics code 3 (40%) or Mathematical Literacy code 6 (70%)

- A minimum percentage as indicated in one of the following subjects: Physical Sciences code 3 (40%) *or* Life Sciences code 4 (50%)

Please note:

- Admission to the programme is subject to selection. The selection policy is available from the Department of Sport Science.
- This programme is not an option for EDP students.

Please consult the paragraph “Undergraduate enrolment management” at the beginning of this chapter.

Selection criteria

Selection for the programme happens according to clear guidelines which are based on both your academic and your non-academic merits. If you are selected, you must complete a medical history form. If you are not declared medically fit, you will not be allowed to register for the compulsory practical modules (for example Sport Science 184).

Closing date for applications

Only a limited number of students are admitted annually to the first year of this programme. Applications close on **30 June** of the previous year.

Dress rules

You must follow the prescribed dress rules. Particulars can be obtained from the Department of Sport Science at the start of the academic year.

Attendance of practical classes

- Attendance of all practical classes is compulsory.
- At least 40% is required for each section of the practical classes.
- The pass mark for all practical and theoretical modules is 50%.

Programme content and structure

- The degree programme in Sport Science extends over three years. Sport Science may be followed in combination with one of the following:
 - Afrikaans and Dutch,
 - English Studies,
 - Geography and Environmental Studies, or
 - Psychology.
- Please note the following prerequisite requirements:
 - Sport Science 112 is a prerequisite pass requirement for Sport Science 262
 - Physiology 114, 144 is a prerequisite module for Sport Science 232, 252
 - Sport Science 184 is a prerequisite pass requirement for Movement Studies, Sport and Recreation 282
- Subject combinations: All subject combinations are subject to timetable considerations.
- Presentation: The programme is structured around a progression of professional skills: skills are presented in the first year and refined and extended in the second and third year. Topics in sport psychology, motor learning and exercise physiology are re-explored at progressive levels of academic complexity over the three years of study. In the third year you can select one area for professional specialisation. This ensures that you have the opportunity to explore one area thoroughly. The scope of the undergraduate study is based on international standards.

Assessment

For the particulars regarding assessment consult the relevant departments. Also consult the entries in the chapter “Subjects, Modules and Module Content” of this Calendar part as well as Calendar Part 4 (Arts and Social Sciences).

Enquiries

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12.1.1 BA (Sport Science) with Afrikaans and Dutch

First year (130-138 credits)

Compulsory modules

Information Skills	172(6)
Sport Science	112(8), 142(8), 184(12)
Afrikaans and Dutch	178(24)
Physiology	114(12), 144(12)

Elective modules

 Plus **two** of the following subjects (2 x 24 credits):

English Studies	178(24)
Geo-Environmental Science	124(16), 154(16) (followed by Geography and Environmental Studies at second- and third-year level)
Psychology	114(12), 144(12)

Second year (128 credits)
Compulsory modules

Sport Science	222(8), 232(8), 252(8), 262(8)
Afrikaans and Dutch	278(32)
Movement Education Sport and Recreation	212(8), 222(8), 242(8), 282(8)

Elective modules

 Plus the continuation of **one** of the following subjects (32 credits):

English Studies	278(32)
Geography and Environmental Studies	225(16), 265(16) (follows Geo-Environmental Science 124,154 from the first year)
Psychology	213(8), 223(8), 243(8), 253(8)

Third year (120 credits)
Compulsory modules

Sport Science	312(6), 322(6), 332(6), 342(6), 352(6), 362(6), 382(6), 392(6)
Afrikaans and Dutch	318(24), 348(24)

Elective modules

 Applied Kinesiology (choose only **one** of the following options) (24 credits):

Applied Kinesiology	324(12), 344(12) Adapted Physical Activity 313(12), 353(12) Sport Coaching 314(12), 352(12) Fitness Industry
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12.1.2 BA (Sport Science) with English Studies
First year (130-138 credits)
Compulsory modules

Information Skills	172(6)
Sport Science	112(8), 142(8), 184(12)
English Studies	178(24)
Physiology	114(12), 144(12)

Elective modules

 Plus **two** of the following subjects (2 x 24 credits):

Afrikaans and Dutch	178(24)
Geo-Environmental Science	124(16), 154(16) (followed by Geography and Environmental Studies at second- and third-year level)
Psychology	114(12), 144(12)

Second year (128 credits)
Compulsory modules

Sport Science	222(8), 232(8), 252(8), 262(8)
English Studies	278(32)
Movement Education Sport and Recreation	212(8), 222(8), 242(8), 282(8)

Elective modules

 Plus the continuation of **one** of the following subjects (32 credits):

Afrikaans and Dutch	278(32)
Geography and Environmental Studies	225(16), 265(16) (follows Geo-Environmental Science 124, 154 in the first year)
Psychology	213(8), 223(8), 243(8), 253(8)

Third year (120 credits)

Compulsory modules

Sport Science	312(6), 322(6), 332(6), 342(6), 352(6), 362(6), 382(6), 392(6)
English Studies	318(24), 348(24)

Elective modules

Applied Kinesiology (choose only **one** of the following options) (24 credits):

Applied Kinesiology	324(12), 344(12) Adapted Physical Activity 313(12), 353(12) Sport Coaching 314(12), 352(12) Fitness Industry
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12.1.3 BA (Sport Science) with Geography and Environmental Studies

First year (138 credits)

Compulsory modules

Information Skills	172(6)
Sport Science	112(8), 142(8), 184(12)
Geo-Environmental Science	124(16), 154(16) (followed by Geography and Environmental Studies at second- and third-year level)
Sociology	114(12), 144(12)
Physiology	114(12), 144(12)

Elective modules

Plus **one** of the following subjects (24 credits):

Afrikaans and Dutch	178(24)
English Studies	178(24)
Psychology	114(12), 144(12) (only first year)

Second year (128 credits)

Compulsory modules

Sport Science	222(8), 232(8), 252(8), 262(8)
Geography and Environmental Studies	225(16), 265(16) (follows Geo-Environmental Science 124, 154 from the first year)
Movement Education Sport and Recreation	212(8), 222(8), 242(8), 282(8)

Elective modules

Plus continued study in **one** of the following subjects (32 credits):

Afrikaans and Dutch	278(32)
English Studies	278(32)
Sociology	212(8), 222(8), 242(8), 252(8)

Third year (128 credits)

Compulsory modules

Sport Science	312(6), 322(6), 332(6), 342(6), 352(6), 362(6), 382(6), 392(6)
Geography and Environmental Studies	314(12), 323(12), 358(16), 363(16)

Elective modules

Applied Kinesiology (choose only **one** of the following options) (24 credits):

Applied Kinesiology	324(12), 344(12) Adapted Physical Activity 313(12), 353(12) Sport Coaching 314(12), 352(12) Fitness Industry
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12.1.4 BA (Sport Science) with Psychology

First year (130-138 credits)

Compulsory modules

Information Skills	172(6)
Sport Science	112(8), 142(8), 184(12)
Psychology	114(12), 144(12)
Sociology	114(12), 144(12)
Physiology	114(12), 144(12)

Elective modules

Plus **one** of the following subjects (24 credits):

Afrikaans and Dutch	178(24)
English Studies	178(24)
Geo-Environmental Science	124(16), 154(16) (first year only)

Second year (128 credits)

Compulsory modules

Sport Science	222(8), 232(8), 252(8), 262(8)
Psychology	213(8), 223(8), 243(8), 253(8)
Movement Education Sport and Recreation	212(8), 222(8), 242(8), 282(8)

Elective modules

Plus **one** of the following subjects (32 credits):

Sociology	212(8), 222(8), 242(8), 252(8)
English Studies	278(32)

Third year (120 credits)

Compulsory modules

Sport Science	312(6), 322(6), 332(6), 342(6), 352(6), 362(6), 382(6), 392(6)
Psychology	314(12), 324(12), 348(24)

Elective modules

Applied Kinesiology (choose only **one** of the following options) (24 credits):

Applied Kinesiology	324(12), 344(12) Adapted Physical Activity 313(12), 353(12) Sport Coaching 314(12), 352(12) Fitness Industry
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12.2 Bachelor of Science in Sport Science (BSc (Sport Science))

Please note: This programme is offered by the Faculty of Science.

Specific admission requirements

- National Senior Certificate (NSC) or school-leaving certificate of the Independent Examination Board (IEB) as certified by Umalusi with a mark of 4 for each of four recognised school subjects with a credit value of 20
- Afrikaans or English (Home Language or First Additional Language) – Code 4 (50%)
- Physical Sciences – Code 4 (50%)
- Mathematics – Code 5 (60%)
- An average percentage of 65% for the NSC or the IEB school-leaving certificate (excluding Life Orientation)

Selection criteria

- Selection for the programme is done according to clear guidelines, which are based on both academic and non-academic merits.
- If you are selected, you must complete a medical history form.
- If you are declared medically unfit, you will not be allowed to register for the compulsory practical modules (such as Kinesiology 182).

Requirements for obtaining the degree

- You must attend all practical classes.
- The Department of Sport Science requires a minimum of 40% for each component of the practical classes.
- You must pass all practical and theoretical modules with 50%.

Dress rules

- You must obey the prescribed regulations regarding clothing. You can obtain more information on these rules from the Department of Sport Science at the beginning of the academic year.

Programme content

Enquiries

Programme leader: Dr KE Dickie

Tel.: 021 808 4718 E-mail: kdickie@sun.ac.za

First year (140 credits)

Compulsory modules

Biology	124(16), 154(16)
Chemistry	124(16), 144(16)
Kinesiology	162(8), 182(8) Kinesiology 162 is a prerequisite pass requirement for Sport Science 262. Kinesiology 182 is a prerequisite pass requirement for Movement Education, Sport and Recreation 282.
Mathematics (Bio)	124(16)
Physics (Bio)	134(16), 154(16)
Science in Context	178(12)

Second year (128 credits)

Compulsory modules

Biochemistry	214(16), 244(16)
Movement Education, Sport and Recreation	212(8), 222(8), 242(8), 282(8)
Physiology	214(16), 244(16)
Sport Science	222(8), 232(8), 252(8), 262(8)

Third year (134 credits)

Compulsory modules

(credits = 110)

Kinesiology	312(8), 332(8), 342(8), 352(8), 372(8)
Physiology	314(16), 334(16), 344(16), 364(16)
Sport Science	382(6)

plus

Elective modules

Choose **one** of the following subjects. You must take both modules of your chosen subject.

(credits = 24)

Applied Kinesiology (Adapted Physical Activity)	324(12), 344(12)
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or

Applied Kinesiology (Sport Coaching)	313(12), 353(12)
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or

Applied Kinesiology (Fitness Industry)	314(12), 352(12)
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Postgraduate Programmes

For more specific information on the Faculty's postgraduate programmes, consult the University's Postgraduate Prospectus or the various departmental websites.

1. Programme offering

The following postgraduate diploma and degree programmes are presented by the Faculty of Medicine and Health Sciences:

Postgraduate Diplomas	Abbreviation
Postgraduate Diploma in Addiction Care	PG Dip (Addiction Care)
Postgraduate Diploma in Disability and Rehabilitation Studies	PG Dip (Disability and Rehabilitation Studies)
Postgraduate Diploma in Family Medicine	PG Dip (Family Medicine)
Postgraduate Diploma in Health Care Management	PG Dip (Health Care Management)
Postgraduate Diploma in Health Research Ethics	PG Dip (Health Research Ethics)
Postgraduate Diploma in Infectious Diseases	PG Dip (Infectious Diseases)
Postgraduate Diploma in Medical Toxicology	PG Dip (Medical Toxicology)
Postgraduate Diploma in Medicines Development	PG Dip (Medicines Development)
Postgraduate Diploma in Specialist Nursing/Midwifery	PG Dip (Specialist Nursing/Midwifery)
Postgraduate Diploma in Occupational Medicine	PG Dip (Occupational Medicine)
Postgraduate Diploma in Rural Medicine	PG Dip (Rural Medicine)
Honours Degrees	Abbreviation
Bachelor of Science Honours	BScHons
Master's Degrees	Abbreviation
Master of Addiction Care	MAddiction Care
Master of Audiology	MAud
Master of Human Rehabilitation Studies	MHumRehab
Master of Medicine	MMed
Master of Nursing	MNurs
Master of Public Health Nutrition	MNutr in Public Health
Master of Occupational Therapy	MOccTher
Master of Pathology	MPath
Master of Philosophy	MPhil
Master of Physiotherapy	MPhysio
Master of Science	MSc
Master of Speech-Language Therapy	MSpeech
Master of Therapeutic Nutrition	MTherNutr
Doctoral Degrees	Abbreviation
Doctor of Philosophy	PhD
Doctor of Science	DSc

2. Commencement of postgraduate studies

As postgraduate student you must register for your particular programme at the start of the academic year. The only programmes that still take on students at the start of the second semester are MMed programmes. If you are accepted for an MMed programme, you will be able to register at the start of the second semester. You can submit a request for exclusion from this rule to the Deputy Dean: Learning and Teaching, with special motivation.

3. Recognition of prior learning and credit accumulation and transfer (RPL&CAT)

Consult the RPL&CAT guidelines of the Faculty of Medicine and Health Sciences for more information on the procedures and guidelines regarding the recognition of prior learning and credit accumulation and transfer in the Faculty. These guidelines are available at www.sun.ac.za/tygstudentadmin under "Policies and Guidelines".

4. Class fees

From 2010 class fees for all structured M degree programmes will be levied per module. Until further notice the class fees for MMed programmes will be levied per annum, as in the past, with the exception of the class fees for the MMed (Fam Med) programme which will be levied per module.

The class fees for the research modules within the structured M degree programmes will be spread over two years (70% of the class fees in the first year of registration and 30% in the second year) to prevent you from having to pay the full amount for two consecutive years. If you complete your research module within one year of study, you will therefore pay only 70% of the

class fees for the specific module. But if you fail to complete the research module within the prescribed two years, you will pay, as of the third year of study, the full amount for the module.

If you register for a research Master's degree, you must pay the full amount in the first year of study with a continuation levy in the second and third year. However, in the fourth and following years of study the continuation levy will double.

5. Postgraduate programmes

The various postgraduate programmes are discussed in more detail below. Programmes are divided into diploma and degree programmes.

5.1 Postgraduate Diplomas

5.1.1 Postgraduate Diploma in Addiction Care

Specific admission requirements

- A bachelor's degree and appropriate professional registration in a field relevant to health or social welfare, e.g. social work, medicine, nursing, psychology (a four-year bachelor's degree, such as a BPsych, or alternatively a three-year bachelor's degree and a one-year honours degree, such as a BA in Psychology followed up by a BAHons) or occupational therapy.
- A nursing diploma with an Advanced Diploma in Psychiatric Nursing Science will also be deemed equivalent to a four-year nursing degree and thus meet the admission criteria.
- At least two years' professional experience will be an advantage.
- You will be considered for admission if have a three-year diploma in nursing or social work, or any other relevant qualification will be considered in accordance with the assessment and recognition of prior learning policy regarding the diploma. The policy is available from the programme leader.
- You must be fluent in both written and spoken English.
- You must be computer literate and have access to the internet. You may be required to use mobile and/or recording devices for participation in certain programme activities.

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**.

Duration of programme

The programme is presented part-time over two years.

Programme description

The Postgraduate Diploma in Addiction Care aims to enrich, broaden and consolidate your knowledge and expertise as a professional working within the field of addiction care, by providing you with a review of the current evidence-based literature relevant to this field. The purpose of the diploma programme is to improve your care for patients with substance use disorders, rather than to provide basic knowledge or research capacity.

The curriculum covers the most important areas within the field of addiction care and will help mould well-rounded addiction-care practitioners.

This qualification, however, does not entitle you to provide professional counselling unless your registration with a professional body or the scope of practice of your previous qualification(s) permit you to do so.

Programme outcomes

After completion of the programme you should have:

- A comprehensive knowledge of the theory relevant to the field of addiction;
- Holistic skills to provide effective, evidence-based interventions to patients with substance use disorders; and
- Suitable skills to study professional and ethical practices.

Presentation

The programme is offered in a modular manner.

The programme is offered by means of blended learning and will include e-learning, guided self-study, assignments, homework tasks and experiential learning, as well as formal lecture weeks. You must log compulsory practical hours.

Programme content

You must complete all four modules. If you do not pass all your first-year modules, you can register for the modules of the second year while repeating the outstanding modules of the first year, should you choose to do so.

First year

Evidence-based Treatment	775(36)
Introduction to Addiction	775(24)

Second year

Addiction and Special Groups	775(36)
Addiction Services	775(24)

Assessment and examination

- You must show satisfactory attendance of classes and participation in e-learning activities and obtain a class mark of at least 40% for each module to be eligible to write the examination in that module.
- The class mark consists of the marks for flexible assessment and assessment of assignments. Successful completion of a module is subject to satisfactory participation.
- If you do not show adequate clinical and/or professional progress (as outlined in the module/programme guide), you will be afforded an opportunity to remediate your inadequate clinical and/or professional conduct or performance. If you fail to remediate, you may only repeat the module or continue with the programme on recommendation of the departmental programme committee and the approval of the Faculty Board.
- You must obtain a final mark of at least 50% to pass a module. The final mark consists of the class mark and the examination mark for each module according to the rules in Part 1 (General) of the University Calendar.
- Re-examinations can either be written or oral examinations.
- You must pass all modules with a final mark of at least 50% to qualify for the diploma, and you will be allowed to graduate only if you have submitted a logbook to confirm satisfactory participation of the prescribed hours of practical work. The final mark for the programme is calculated as the average of the marks for the completed modules.

Enquiries

Programme leader: Dr EM Weich

Tel: 021 940 4400 E-mail: lizew@sun.ac.za or addictions@sun.ac.za

5.1.2 Postgraduate Diploma in Disability and Rehabilitation Studies*Specific admission requirements*

- An MBChB degree, a bachelor's degree in an appropriate health or health-related field or an equivalent qualification at National Qualifications Framework level 7, or a standard of competence in your particular field of study that Senate considers to be adequate for such purpose.

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**.

Duration of programme

The programme extends over one year.

Programme description

The focus of the Postgraduate Diploma in Disability and Rehabilitation Studies programme will be to strengthen and deepen your knowledge and theoretical understanding of disability and rehabilitation, with the aim of promoting the development of current thinking, response and practice in disability and rehabilitation studies. In addition, the programme will facilitate in-depth, advanced reflection on

- the latest international and national instruments and policies for disability, rehabilitation and health, as well as other, social-related policies;
- how these instruments and policies affect you as a disability and rehabilitation practitioner in your scope of work; and
- how you as practitioner can develop sustainable disability and rehabilitation models of best practice to effectively respond to national needs in this regard.

Programme outcomes

As a graduate with a Postgraduate Diploma in Disability and Rehabilitation Studies, you will:

- have acquired and will continue to sharpen essential advanced, higher-order cognitive, psychomotor and affective skills;
- accept responsibility for your own learning and for continuously being as self-driven as possible;
- be able to utilise appropriate learning strategies and emphasise the development of thought processes both to analyse and to synthesise information;
- be able to think critically and do independent research;
- understand the need to remain conversant with the latest research, developments and practices in rehabilitation programmes;
- strive for lifelong continuing professional development;
- critically question and appraise models, theories, principles, policies and phenomena in the field of disability and rehabilitation programmes;

- practise self-criticism and accept the feedback of others;
- have acquired and will continue to practise advanced scientific communication skills;
- be able to provide rehabilitation-related preventive, promotive, curative and rehabilitative programmes to persons at any point on the health-disease-impairment-disability continuum and in any life phase; and
- commit yourself unconditionally to serving the community (and people's lives).

Programme content

The following are theoretical modules and are all compulsory.

Disability and Rehabilitation: Theory and Practice	775(30)
Ethical and Community Constructs	775(30)
Community Integration of the Disabled Person	775(30)
Policy Analysis on Health, Disability and Rehabilitation	775(30)

Assessment and examination

- Modules are assessed by means of online discussions and open-book assignments. You must pass all four modules with a mark of at least 50%.
- If you fail a module with a final mark of between 45% and 49%, you will be granted an opportunity to repeat the assignment(s) which has contributed to the final mark for the module.
- If you do not qualify to repeat the assignment(s) or fail the assignment(s) for the second time, you will be given one opportunity to repeat the module in the following year. If you fail the module for the second time, you may be denied the right to register for the module again and to qualify for the postgraduate diploma qualification on recommendation of the Faculty Board.

Enquiries

Programme leader: Dr Lieketseng Ned

Tel: 021 938 9615/9090 E-mail: lieketseng@sun.ac.za

5.1.3 Postgraduate Diploma in Family Medicine

Specific admission requirements

- Have an MBChB degree of this University, or another qualification considered by the University to be of an adequate standard, for at least two years.
- You must be registered with the Health Professions Council of South Africa or an equivalent registration body outside South Africa.
- If you are applying with foreign qualifications and you did not use English as medium of instruction for your undergraduate studies, you may be required to provide evidence of your oral and academic writing proficiency in English.
- You must be working in a clinical setting appropriate to the practice and learning of family medicine.

Please note: You can possibly be given partial or full exemption, on the basis of comparable academic training and professional experience that you gained at another acknowledged institution.

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**.

Senate, or the Executive Committee acting on its behalf, will decide if you can be admitted to the programme.

Duration of programme

The programme extends over two years.

Programme description

The Postgraduate Diploma in Family Medicine aims to provide you as a doctor with a course of study that would expand your knowledge and skills in family medicine and primary care. The programme also aims to enhance the quality of family medicine/general practice, and to provide for professional development in the discipline.

Please note: You must read the calendar entry for this programme in conjunction with the more comprehensive outline of the programme regulations provided to you upon admission to the programme.

Programme outcomes

As a graduate of the Postgraduate Diploma in Family Medicine you should be able to:

- assess and treat patients with both undifferentiated and more specific problems in a cost-effective way according to the bio-psychosocial approach;
- provide all health care in an ethical, compassionate and responsible manner, and show respect for human rights while doing so;
- promote the general health and quality of life of the community; and

- evaluate and reflect on your personal and professional strengths and weaknesses in order to change your professional practice in an appropriate manner according to the best available evidence.

Presentation

The programme is offered in a modular manner by means of real-time learning.

Programme content

Clinical Primary Care	775(20)
Primary Care Consultations	775(20)
Community-oriented Primary Care	741(20)
Clinical Governance for Primary Care	775(20)
Core Dimensions of Primary Care	775(20)
Learning in Primary Care Teams	775(20)

Assessment and examination

- You must pass all six modules with a final mark of at least 50%.
- If you fail a module or the final examination in a module, you may repeat the module or the examination. Modules are only offered once a year. To repeat a module, you must enrol for the module again in the following academic year. If you are required to repeat the examination in a module only, you may attempt a supplementary examination in the same year.
- If you have failed a module or the examination in a module for the second time, you may be denied the right to attempt the module or examination again on recommendation of the Faculty Board.
- As exit examination you must sit the examination for the Higher Diploma in Family Medicine of the College of Family Physicians of South Africa. The cost of the examination is not included in the university fees. For more information, visit the website at www.cmsa.co.za.
- If you have failed an exit examination, you may sit a supplementary examination. If you, however, fail a second exit examination, you may be denied the right to qualify for the Postgraduate Diploma in Family Medicine on recommendation of the Faculty Board.
- To be awarded the Postgraduate Diploma in Family Medicine, you must obtain a final mark of not less than 50%.
- To be awarded the Postgraduate Diploma in Family Medicine with distinction, you must obtain a final mark of at least 75%.

Enquiries

Programme leader: Dr Ts'epo Motsahi

Programme administrator: Ms N Cordon-Thomas

Tel: 021 938 9061/9170 E-mail: nicolec@sun.ac.za

Website: <http://www.sun.ac.za/fammed/>

5.1.4 Postgraduate Diploma in Health Care Management

Specific admission requirements

- A Bachelor's degree in health sciences, in economic and management sciences, or in social sciences on NQF level 7.
- Demonstrated academic ability and relevant workplace experience.
- You must also prove that you are adequately proficient in English and in writing for postgraduate academic studies and research.

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**.

You must submit a written motivation for entry into the programme as well as proof of your proficiency in English and in writing for postgraduate academic studies and research.

Duration of programme

The programme extends over two years and is presented on a part-time basis.

Programme description

The purpose of the programme is to prepare you for advanced and specialised professional employment within the health system, and to develop your knowledge and skills in health care management at an advanced level in an applied work setting. The curriculum is based on workplace leadership and managerial roles. Assignments are practical and applied and include an applied professional assignment which resembles workplace experience and challenges in health care organisations.

The postgraduate diploma provides a strong conceptual foundation for theoretically and methodologically grounded engagements with applied concerns regarding health care management and sets you up for professional work or further academic study.

This programme is hosted by the Division of Health Systems and Public Health in the Department of Global Health at the Faculty of Medicine and Health Sciences. The programme consists of a core set of modules, with a practical assignment by means of a health management report.

Programme content

All modules are compulsory; 60 credits are prescribed for the first year, and a further 60 credits for the second year. The health management report will be incorporated into the second-year modules.

First year

Health Systems, Policy and Financing	775(10)
Leadership and Innovation in Health Care	737(5) *
Strategy, Marketing and Communication	775(10)
Managing Self and Others for Optimal Service Delivery	775(10)
Quality Improvement, Clinical Governance and Patient Care	775(10)
Project Management	775(10)

Second year

Evidence and Information in Health Management	775(10)
Financial Leadership and Governance for Effective Health Care Delivery	775(10)
Leadership and Innovation in Health Care	757(5) *
Managing Operations	775(10)
Managing Health Technology and Infrastructure	775(10)
Health Management Report	775(20)

* Leadership and Innovation in Health Care is a longitudinal module completed over the course of the programme.

Assessment and examination

Each module is assessed by means of assessment in the form of:

- class tests;
- short assignments during tutorials;
- individual and group participation; and
- longer written assignments before or after the contact sessions for a particular module.

Enquiries

Programme leader: Prof René English

Programme administrator: Mrs Tracey Pietersen

Tel: 021 938 9375 E-mail: healthleadership@sun.ac.za

5.1.5 Postgraduate Diploma in Health Research Ethics

Please note: This programme will not be offered until further notice.

Specific admission requirements

- A background indicating a significant interest in bioethics or research ethics.
- A degree in health sciences, law, social sciences or the humanities (e.g. philosophy and theology).
- You must further submit a letter of support from your home institution demonstrating institutional support and explaining why your research ethics capacity-building is important to the home institution.
- You must be computer literate, have internet access and be fluent in spoken and written English.

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**.

Senate, or the Executive Committee acting on its behalf, will decide on your admission to the Diploma in Health Research Ethics.

If you have foreign qualifications and you did not use English as medium of instruction for your undergraduate studies, you may be required to provide evidence of your oral and academic writing proficiency in English.

Please note:

- You will be given preference if you are a mature midcareer professional and already have research ethics experience.
- You will also be given preference if you are a member of a research ethics committee (national, institutional or private) or a regulatory agency.

In keeping with South African guidelines for diversity in a research ethics committee membership, gender and race will be considered in selecting trainees.

Duration of programme

The programme extends over one year.

If you do not complete the programme within two years, you will not be afforded further opportunity to continue with the programme.

Programme description

The Postgraduate Diploma in Health Research Ethics is a comprehensive programme that includes a structured array of practical experiences and career development activities relevant to the ethical analysis and review of research involving human participants in resource-constrained settings. The programme aims to build capacity and enhance expertise in health research ethics in Southern Africa.

Please note: You must read the calendar entry for this programme in conjunction with the more comprehensive outline of the programme regulations provided to you upon admission to the programme.

Programme outcomes

As a graduate of the Postgraduate Diploma in Health Research Ethics, you will have:

- acquired a thorough and systematic knowledge of the history of health research ethics;
- developed an understanding of the philosophical basis of research ethics;
- developed the ability to debate and discuss topical and contentious issues in health research ethics;
- developed skills to conduct a competent review of health protocols based on scientific and ethics perspectives;
- developed the ability to assume or resume leadership roles on your return to your institution/home country and to provide training for research ethics committee members and other interested faculties; and
- developed the ability to establish a research ethics committee (REC) in your institution if one does not exist.

Presentation

The programme is offered in a modular manner by means of three two-week contact sessions.

Programme content

During the programme, you will have an opportunity to work with a clinical research site and with a health REC.

Introduction to Bioethics, Health Law and Human Rights	775(30)
Dual Review of Research as Ethical Imperative	775(30)
Research and Vulnerability	775(30)
Research Assignment (Health Research Ethics)	775(30)

Assessment and examination

- You must obtain a final mark of at least 50% to complete the programme successfully. The final mark is calculated as the weighted average of the marks obtained for the following (no subminima apply):
 - Module 1 test 20%;
 - Module 2 test 20%;
 - Module 3 test 20%;
 - Group assignment 15%; and
 - Research assignment 25%.
- To be awarded the Postgraduate Diploma in Health Research Ethics with distinction, you must obtain a final mark of at least 75%.

Enquiries

Programme leader: Prof Keymanthri Moodley

Programme administrator: Ms Meagan van Ster

Tel: 021 938 9600 E-mail: bioethics@sun.ac.za

Website: <http://www.sun.ac.za/cmcl>

5.1.6 Postgraduate Diploma in Infectious Diseases*Specific admission requirements*

To be accepted to the Postgraduate Diploma in Infectious Diseases, you must:

- be in possession of an MBChB degree of Stellenbosch University, or another qualification considered by the University to be of an adequate standard, for at least two years;
- be registered with the Health Professions Council of South Africa or an equivalent registration body outside South Africa;
- be fluent in both written and spoken English. Applicants with foreign qualifications who did not use English as medium of instruction for their undergraduate studies may be required to provide evidence of their oral and academic writing proficiency in English;
- work in a clinical setting appropriate to the practice and learning of infectious diseases; and

- be computer literate and have access to the internet. Candidates may also be required to use mobile devices for participation in certain programme activities.

Please note: Candidates may qualify for exemption, complete or partial, from certain modules based on comparable academic training and clinical experience gained at another acknowledged institution.

Programme description

The Postgraduate Diploma in Infectious Diseases aims to provide doctors with a programme that will expand their knowledge and skills in the prevention, diagnosis and management of infectious diseases. The programme also aims to enhance the quality of infectious disease management in the primary care environments and rural areas, and to provide for professional development in the discipline.

Programme outcomes

As a graduate with the Postgraduate Diploma in Infectious Diseases, you will be able to:

- assess, diagnose and treat adult and paediatric patients with infections (community-acquired, hospital-acquired, travel/tropical, immunosuppressed) in a cost-effective way in limited-resource environments;
- promote the general health and quality of life of the community by playing a leading role in preventing infectious diseases, practicing antibiotic stewardship and responding to infectious diseases outbreaks appropriately;
- provide all health care in an ethical, compassionate and responsible manner, and show the necessary respect for human rights while doing so; and
- evaluate and reflect on your personal and professional strengths and weaknesses in order to change your professional practice in an appropriate manner according to the available evidence.

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Please note, however, that applications for prospective international students close on **31 August** of the previous year.

The University Senate, or the Executive Committee acting on its behalf, will decide if a candidate can be admitted.

Presentation and duration of programme

The programme is presented part-time over two years and is offered in a modular manner by means of a blended-learning model. It will include e-learning, guided self-study, assignments, reflective case-based portfolios and work-based learning, as well as face-to-face tutorials and skills training.

Programme content

You must complete all five modules over a period of two years. You cannot start with a new module if you have not successfully completed the preceding module. Attendance of the contact sessions at the start of each year is compulsory for admission to the year's modules.

First year

Adult Infectious Diseases	775(30)
Paediatric Infectious Diseases	775(30)

Second year

HIV and TB	775(30)
Surgical/Trauma Infections	775(15)
Community Health	775(15)

Assessment and examination

- To be accepted for the examination after each module, you must:
 - show satisfactory participation in e-learning activities for the module concerned; and
 - obtain a class mark of at least 50% for the module concerned. The class mark is calculated as the average of the marks for the assignments and portfolios of the module concerned.
- A final mark of at least 50% is needed to pass a module.
- Re-examinations can either be written or oral examinations.
- The final mark for the programme is calculated as the average of the final marks for the modules.
- To be awarded the Postgraduate Diploma in Infectious Diseases, a final mark of at least 50% for each module must be obtained, attendance of face-to-face contact time must be 100% and all the portfolios (with a logbook included) confirming satisfactory exposure to practical work must be submitted.
- To be awarded the Postgraduate Diploma in Infectious Diseases with distinction, a final mark of at least 75% must be obtained.

Enquiries

Programme leader: Dr Jantjie Taljaard

Programme administrator: Ms Lejandra Hanekom

Tel: 021 938 9331/9045 E-mail: lejandra@sun.ac.za

5.1.7 Postgraduate Diploma in Medical Toxicology

Specific admission requirements

- A bachelor's degree (e.g. MBChB, BPharm or BNurs) or another relevant qualification on at least NQF level 7.
- If you are an international student who did not use English as medium of instruction for your undergraduate studies, you may be required to provide evidence of your oral and academic writing proficiency in English.

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**.

Programme description

The Postgraduate Diploma programme in Medical Toxicology aims to train you, as an appropriately qualified scientist, in the field of medical toxicology. The curriculum covers the most important areas of medical toxicology and will help broaden your knowledge as a health care professional. After completing the course, you will:

- have the practical skills to diagnose and manage patients exposed to poisonous chemicals;
- be able to work in medical facilities where you can assist in managing poisoned patients; and
- be able to advise other health care professionals on the diagnosis and management of poisoned patients.

Duration

The programme extends over two years.

Presentation

The programme is offered by means of blended learning and includes e-learning, guided self-study, assignments, homework tasks and e-portfolios for integrated reflection, as well as two formal face-to-face lecture weeks.

Programme content

You must complete all five modules listed below.

Introduction to Toxicology	775(24)
Poisoning Management and Prevention	775(24)
Poisoning with Biological Toxins	775(24)
Poisoning with Non-drug Chemicals	775(24)
Poisoning with Pharmaceuticals	775(24)

Assessment and examination

- To obtain the PG Dip (Medical Toxicology) you must:
 - show satisfactory attendance of classes and satisfactory participation in e-learning activities; and
 - pass with a final mark of at least 50%.
- The final mark is calculated as follows:
 - Section 1: written assignments and online quizzes (25%).
 - Section 2: e-portfolios for integrated reflection (15%).
 - Section 3: discussions of case studies (24%).
 - Section 4: a three-hour written examination (36%).
- To pass the programme with distinction you must obtain a mark of 75%.

Enquiries

Programme leader: Mrs CJ Marks

Tel: (021) 938 9334 E-mail: carinem@sun.ac.za

Programme administrator: Ms L Hanekom

Tel: (021) 938 9045 E-mail: lejandra@sun.ac.za

5.1.8 Postgraduate Diploma in Medicines Development

Specific admission requirements

- One of the following qualifications:
 - an MBChB or BChD degree;
 - a BPharm degree;
 - a BNurs or BSc (Biological Sciences or Biomathematics) degree with at least two years' experience in medicines development/pharmaceutical medicine; or
 - an equivalent qualification as approved by Senate.
- If you are applying with foreign qualifications and you did not use English as medium of instruction for your undergraduate studies, you may be required to provide evidence of your oral and academic-writing proficiency in English.
- International candidates must provide proof of the equivalence of qualifications obtained from a non-South African Institute. A SAQA (South African Qualifications Authority) certificate must be submitted.

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**.

If you do not meet any of the above-mentioned criteria, you may be enrolled after a successful interview with programme leaders and on approval by Senate, or the Executive Committee acting on its behalf. Admission based on your approved previous training will be considered for recommendation by Senate, or the Executive Committee acting on its behalf.

Duration of programme

The programme extends over two years.

Programme description

The Postgraduate Diploma in Medicines Development (PG Dip (Medicines Development)) will provide you with a programme of study that will expand your knowledge and skills in medicines development/pharmaceutical medicine. Medicines development/pharmaceutical medicine deals with the entire medical product life cycle, including non-clinical and clinical drug development, regulatory affairs, marketing of pharmaceutical products and drug safety/pharmacovigilance. Specifically, this discipline encompasses the following areas:

- Discovery of new medicines;
- Pharmaceutical development;
- Toxicity testing;
- Legal and ethical issues;
- Development of medicines and development planning;
- Clinical trials;
- Statistics and data management;
- Safety of medicines;
- Regulatory affairs;
- Information, promotion and education; and
- Economics of health care.

Programme outcomes

As a graduate of the Postgraduate Diploma in Medicines Development programme, you must:

- have a thorough and systematic knowledge of pharmaceutical medicine and medicines development;
- be able to critically evaluate and practically apply new knowledge, understanding and skills to the discipline of medicines development/pharmaceutical medicine in South Africa; and
- be able to evaluate and reflect on your personal and professional strengths and weaknesses in order to change your professional practice in an appropriate manner according to the best evidence available.

Presentation

The programme is presented by means of contact sessions as well as self-study assignments.

*Programme content***First year**

Introduction to Pharmaceutical Medicine, Drug Discovery and Development Planning	775(30)
Non-clinical and Pharmaceutical Development of Medicines	775(15)
Clinical Development of Medicines	775(15)

Second year

Biometrics, Epidemiology and Data Management	775(15)
Health Care Marketplace and Economics of Health Care	775(15)
Regulatory Affairs, Ethics, Drug Safety and Pharmacovigilance	775(30)

Assessment and examination

- To be awarded the Postgraduate Diploma in Medicines Development, you must:
 - complete two calendar years as a registered student for the PG Dip (Medicines Development);
 - obtain at least 50% in your modular tests during the two-year programme; and
 - pass two three-hour examination papers covering the modules.
- You must pass each of the six modules with an average mark of at least 50%.
- To complete the PG Dip (Medicines Development) programme successfully, you must obtain a final mark of 50% or more for the programme. To pass the PG Dip (Medicines Development) programme with distinction, you must obtain a final mark of 75% or more for the programme.

- The final mark for the programme is calculated as a weighted average of the marks for each component, namely:
 - two three-hour written papers (2 x 30%); and
 - the average mark for the six modules (40%).

Enquiries

Programme director: Prof H Reuter

Programme leader: Dr C Page

Programme administrator: Ms L Hanekom

Tel: 021 938 9331/9045 E-mail: lejandra@sun.ac.za

5.1.9 Postgraduate Diplomas in Specialist Nursing/Midwifery

Programme description

Specialist nurses/midwives are registered nurses/midwives with specialised skills in their fields of speciality. These skills include the ability to make decisions in complex circumstances and to provide an expanded range of services. To this end, the nurse/midwife specialist needs to be competent in:

- professional, ethical and legal practice;
- clinical practice;
- personal development;
- management and leadership; and
- evidence-based practice and research.

The postgraduate diploma programmes in Specialist Nursing/Midwifery equip graduates to be leaders in their specialist areas and to deliver specialist nursing/midwifery care that is person-centred, autonomous, innovative, comprehensive, ethical and evidence-based, and complies with all appropriate legislation. By teaching students both theoretical and applied skills, the various postgraduate diploma programmes promote critical thinking, evidence-based practice and socially relevant research. The programmes are designed to meet the outcomes and competencies required by the South African Nursing Council.

Programme outcomes

Once you have completed a postgraduate diploma programme in Specialist Nursing/Midwifery, you should:

- Be able to demonstrate the skills as outlined in the South African Nursing Council's postgraduate qualification framework and be able to apply the skills meaningfully and effectively in your area of specialisation.
- Be able to demonstrate critical thinking and the use of evidence-based practice to improve current practices and meet the needs of society.
- Be able to provide holistic person-centred care to patients of any age, in any state of health or illness, and in any service or care setting within your specialisation.
- Take the lead in caring for those in your care, paying special attention to patients' needs, lifespan, stage of development and quality of life.
- Know how to organise and manage the nursing/midwifery environment in which you operate, by among other things, applying cost-effective strategies and improving collaboration between nursing/midwifery and other disciplines and professions.
- Demonstrate the use of effective communication skills to meaningfully communicate with patients, colleagues and learners in diverse environments.
- Know what is expected of you to comply with professional codes of conduct, scopes of practice, and ethical values and frameworks, including the reasoning behind moral and specialist care.
- Be able to use innovative strategies, including technology, to improve the quality of care, teaching and learning, management and leadership.
- Know how to carry out effective learning and teaching strategies, create positive learning environments, and encourage others to self-reflect, adapt and develop academically.
- Serve as a role model and advocate for those in your care, the broader community and the profession.

Assessment and examination

- All programmes are subject to the provisions regarding examinations, promotion and reassessment in a single module as outlined in Part 1 (General) of the Calendar.
- A variety of formative and summative assessment methods are used, and the results indicate whether you have achieved the intended outcomes. Therefore, your assessment as a nursing/midwifery specialist will indicate whether you have achieved the required academic growth and focus and have managed to integrate theory and practice appropriately.
- Each module is assessed separately, and you must achieve at least 50% in a module to pass.
- If you fail a module for the second time, you will not be allowed to continue with the programme.

5.1.9.1. Postgraduate Diploma in Critical Care Nursing: Adult

Please note: This programme was redesigned according to amended requirements by the South African Nursing Council (SANC). The new programme was submitted for accreditation to the Department of Higher Education and Training (DHET) and the Council on Higher Education (CHE), as well as for registration with the South African Qualifications Authority (SAQA) and SANC. The programme will be implemented as soon as the accreditation and registration of the programme has been finalised with all external bodies.

Specific admission requirements

- A bachelor's degree in nursing on NQF level 8, a four-year diploma in nursing or an equivalent nursing qualification on NQF level 7; or
- A bachelor's degree in Nursing (R174) and the Diploma in Nursing: General Nurses (R171) with the Advanced Diploma in Midwifery (R1497).
- Registration with SANC as a Professional Nurse and Midwife (NQF level 8) or a General Nurse with a Midwifery qualification (NQF level 7).
- Two years' experience as a Registered/Professional Nurse and Midwife, which includes experience in the field of the speciality within the last two years.
- Computer literacy is highly recommended.

Application procedure and closing date

Apply online at www.maties.com by **31 October** of the previous year.

Duration of programme

The programme extends over one academic year.

Programme description

The programme will equip you with the theoretical knowledge and clinical skills to be a competent critical care nurse. It will teach you to assess and diagnose the critically ill adult patient in a critical care unit, plan and implement treatment for the patient, and evaluate the progress of the patient.

Presentation

Theory is presented in block periods on the Tygerberg Campus and as telematic presentations as per the academic calendar. Work-integrated learning comprises of simulation learning, clinical practice for experiential learning and role-taking at clinical facilities that SANC has specifically accredited for Stellenbosch University.

Programme content

Evidence-based Practice	XXX(8)
Leadership and Development in Specialist Practice	XXX(8)
Praxis of Specialist Practice	XXX(8)
Principles and Processes of Critical Care Nursing	XXX(28)
Specialist Critical Care Nursing Practice	XXX(45)
System Abnormalities: Critical Care Nursing	XXX(23)

Assessment and examination

- A variety of formative and summative assessment methods are used. You will be assessed based on:
 - assignments;
 - the application of research principles and methods;
 - patient case presentations;
 - case studies;
 - clinical skills;
 - portfolios of evidence; and
 - written tests and examinations.
- Each module is assessed separately, and you must achieve at least 50% in a module to pass.
- If you fail a module for the second time, you will not be allowed to continue with the programme.

Enquiries

Programme leader: Ms RFG Anthonie

Tel: 021 938 9299/9036 E-mail: ranthonie@sun.ac.za

5.1.9.2. Postgraduate Diploma in Midwifery

Specific admission requirements

- A bachelor's degree in nursing on NQF level 8, a four-year diploma in nursing or an equivalent nursing qualification on NQF level 7; or
- A bachelor's degree in Nursing (R174) and the Diploma in Nursing: General Nurses (R171) with the Advanced Diploma in Midwifery (R1497).

- Registration with SANC as a Professional Nurse and Midwife (NQF level 8) or a General Nurse with a Midwifery qualification (NQF level 7).
- Two years' experience as a Registered/Professional Nurse and Midwife which includes experience in the field of the speciality within the last two years.
- Computer literacy is highly recommended.

Application procedure and closing date

Apply online at www.maties.com by **31 October** of the previous year.

Duration of programme

The programme extends over one academic year.

Programme description

The programme will strengthen and build your midwifery knowledge and skills. You will learn how to critically reflect on the current thinking, practices and research methods in your field, and use this to improve women's health. The programme involves intense theoretical study, sound clinical decision-making and independent thinking, as well as applying knowledge to various contexts while providing professional competent midwifery care.

Presentation

Theory is presented in block periods on the Tygerberg Campus and as telematic presentations as per the academic calendar. Work-integrated learning comprises of simulation learning, clinical practice for experiential learning and role-taking at clinical facilities that SANC has specifically accredited for Stellenbosch University.

Programme content

Evidence-based Practice	721(8)
Leadership and Development in Specialist Practice	743(8)
Maternal and Neonatal Care Pharmacology	732(8)
Maternal Care Specialisation	733(28)
Neonatal Care Specialisation	734(20)
Praxis of Specialist Practice	746(8)
Specialist Midwifery Practice	735(40)

Assessment and examination

- A variety of formative and summative assessment methods are used. You will be assessed based on:
 - assignments;
 - the application of research principles and methods;
 - patient case presentations;
 - case studies;
 - clinical skills;
 - portfolios of evidence; and
 - written tests and examinations.
- Each module is assessed separately, and you must achieve at least 50% in a module to pass.
- If you fail a module for the second time, you will not be allowed to continue with the programme.

Enquiries

Programme leader: Prof DM Kaura

Tel: 021 938 9240/9036 E-mail: dkm@sun.ac.za

5.1.9.3. Postgraduate Diploma in Perioperative Nursing

Specific admission requirements

- One of the following qualifications:
 - A bachelor's degree in nursing on NQF level 8; or
 - A four-year diploma in nursing or an equivalent nursing qualification on NQF level 7; or
 - A bachelor's degree in Nursing (R174); or
 - A Diploma in Nursing: General Nurses (R171) with the Advanced Diploma in Midwifery (R1497).
- Registration with SANC as a Professional Nurse and Midwife (NQF level 8) or a General Nurse with a Midwifery qualification (NQF level 7).
- Two years' experience as a Registered/Professional Nurse and Midwife which includes experience in the field of the speciality within the last two years.
- Computer literacy is highly recommended.

Application procedure and closing date

Apply online at www.maties.com by **31 October** of the previous year.

Duration of programme

The programme extends over one academic year.

Programme description

The programme aims to equip you as a professional nurse to provide safe perioperative nursing that complies with the legal and ethics requirement in South Africa. It will teach you to combine clinical and non-clinical aspects in planning and implementing personalised perioperative patient care, working alongside other disciplines.

Presentation

Theory is presented in block periods on the Tygerberg Campus and as telematic presentations as per the academic calendar. Work-integrated learning comprises of simulation learning, clinical practice for experiential learning and role-taking at clinical facilities that SANC has specifically accredited for Stellenbosch University.

Programme content

Evidence-based Practice	721(8)
Leadership and Development in Specialist Practice	743(8)
Perioperative Nursing in Context	722(40)
Praxis of Specialist Practice	746(8)
Specialist Perioperative Practice	723(56)

Assessment and examination

- A variety of formative and summative assessment methods are used. You will be assessed based on:
 - assignments;
 - the application of research principles and methods;
 - patient case presentations;
 - case studies;
 - clinical skills;
 - portfolios of evidence; and
 - written tests and examinations.
- Each module is assessed separately, and you must achieve at least 50% in a module to pass.
- If you fail a module for the second time, you will not be allowed to continue with the programme.

Enquiries

Programme leader: Ms L Schutte

Tel: 021 938 9593/9036 E-mail: lorainev@sun.ac.za

5.1.9.4. Postgraduate Diploma in Primary Care Nursing*Specific admission requirements*

- A bachelor's degree in nursing on NQF level 8, a four-year diploma in nursing or an equivalent nursing qualification on NQF level 7; or
- A bachelor's degree in Nursing (R174) and the Diploma in Nursing: General Nurses (R171) with the Advanced Diploma in Midwifery (R1497).
- Registration with SANC as a Professional Nurse and Midwife (NQF level 8) or a General Nurse with a Midwifery qualification (NQF level 7).
- Two years' experience as a Registered/Professional Nurse and Midwife which includes experience in the field of the speciality within the last two years.
- Computer literacy is highly recommended.

Application procedure and closing date

Apply online at www.maties.com by **31 October** of the previous year.

Duration of programme

The programme extends over one academic year.

Programme description

The programme will equip you to work as a specialist practitioner alongside other team members in primary care to provide comprehensive clinical care. It will help you understand and critically assess the principles, theories and key issues and debates in primary health care. In addition, you will learn how to apply specialist knowledge and skills in providing advanced clinical care to individuals of all ages, as well as to families in a primary care environment.

Presentation

Theory is presented in block periods on the Tygerberg Campus and as telematic presentations as per the academic calendar. Work-integrated learning comprises of simulation learning, clinical practice for experiential learning and role-taking at clinical facilities that SANC has specifically accredited for Stellenbosch University.

Programme content

Evidence-based Practice	721(8)
Health Assessment, Diagnosis, Treatment and Care	734(25)
Leadership and Development in Specialist Practice	743(8)
Pharmacology	733(15)
Praxis of Specialist Practice	746(8)
Principles and Processes of Primary Health Care	731(15)
Specialist Primary Care Practice	735(41)

Assessment and examination

- A variety of formative and summative assessment methods are used. You will be assessed based on:
 - assignments;
 - the application of research principles and methods;
 - patient case presentations;
 - case studies;
 - clinical skills;
 - portfolios of evidence; and
 - written tests and examinations.
- Each module is assessed separately, and you must achieve at least 50% in a module to pass.
- If you fail a module for the second time, you will not be allowed to continue with the programme.

Enquiries

Programme leader: Ms D Kitshoff

Tel: 021 938 9058/9036 E-mail: danenek@sun.ac.za

5.1.9.5. Postgraduate Diploma in Mental Health Nursing*Specific admission requirements*

- A bachelor's degree in nursing on NQF level 8, a four-year diploma in nursing or an equivalent nursing qualification on NQF level 7; or
- A bachelor's degree in Nursing (R174) and the Diploma in Nursing: General Nurses (R171) with the Advanced Diploma in Midwifery (R1497).
- Registration with SANC as a Professional Nurse and Midwife (NQF level 8) or a General Nurse with a Midwifery qualification (NQF level 7).
- Two years' experience as a Registered/Professional Nurse and Midwife which includes experience in the field of the speciality within the last two years.
- Computer literacy is highly recommended.

Application procedure and closing date

Apply online at www.maties.com by **31 October** of the previous year.

Duration of programme

The programme extends over one academic year.

Programme description

The programme aims to develop you into a critically thinking, creative and reflective practitioner who not only takes the lead in providing mental health care, but also serves as a resource on mental health services in South Africa.

It will equip you with an in-depth knowledge and therapeutic skills to diagnose, treat, care for and manage individuals with mental disorders at a primary, secondary and tertiary care level. A particular focus will be the skill to consult and liaise with patients. The programme will also help you understand the context and dynamics of our health services system, and how this affects health services delivery.

Presentation

Theory is presented in block periods on the Tygerberg Campus and as telematic presentations as per the academic calendar. Work-integrated learning comprises of simulation learning, clinical practice for experiential learning and role-taking at clinical facilities that SANC has specifically accredited for Stellenbosch University.

Programme content

Evidence-based Practice	721(8)
Leadership and Development in Specialist Practice	743(8)
Praxis of Specialist Practice	746(8)
Principles and Processes of Mental Health Nursing	751(48)
Specialist Mental Health Nursing Practice	753(48)

Assessment and examination

- A variety of formative and summative assessment methods are used. You will be assessed based on:
 - assignments;
 - the application of research principles and methods;
 - patient case presentations;
 - case studies;
 - clinical skills;
 - portfolios of evidence; and
 - written tests and examinations.
- Each module is assessed separately, and you must achieve at least 50% in a module to pass.
- If you fail a module for the second time, you will not be allowed to continue with the programme.

Enquiries

Programme leader: Ms R Felix

Tel: 021 938 9293/9036 E-mail: rehannafelix@sun.ac.za

5.1.9.6. Postgraduate Diploma in Nursing Education*Specific admission requirements*

- A bachelor's degree in nursing on NQF level 8, a four-year diploma in nursing or an equivalent nursing qualification on NQF level 7; or
- A bachelor's degree in Nursing (R174) and the Diploma in Nursing: General Nurses (R171) with the Advanced Diploma in Midwifery (R1497).
- Registration with SANC as a Professional Nurse and Midwife (NQF level 8) or a General Nurse with a Midwifery qualification (NQF level 7).
- Two years' experience as a Registered/Professional Nurse and Midwife which includes experience in the field of the speciality within the last two years.
- Computer literacy is highly recommended.

Application procedure and closing date

Apply online at www.maties.com by **31 October** of the previous year.

Duration of programme

The programme extends over one academic year.

Programme description

The programme will expose you to the specialist area of nursing education and equip you with the knowledge and skills you need to be an effective nursing educator in your chosen specialist area. It will train you, as a professional registered nurse, to teach other nurses. As a nursing educator, you will require specific skills and competencies (teaching activities), which you will obtain by learning through experience.

The teaching method is based on the following principles:

- You will be required to learn and study independently while the educator provides guidance and facilitates learning.
- Your analytical, critical, reflective and creative thinking skills will be developed through problem-solving, assignments, e-learning assessments on SUNLearn (<http://learn.sun.ac.za>), case studies, interactive workshops along with peers, and other teaching and learning strategies.
- You will be exposed to real-life practice so that you can relate theory to practice for yourself. In the education field, this occurs through experiential learning.
- The theoretical component directly relates to the practical objectives of the programme to broaden your knowledge of nursing education.

Presentation

Theory is presented in block periods on the Tygerberg Campus and as telematic presentations as per the academic calendar. Work-integrated learning comprises of simulation learning, clinical practice for experiential learning and role-taking at clinical facilities that SANC has specifically accredited for Stellenbosch University.

Programme content

Curriculum Studies	742(20)
Educational Psychology	745(15)
Evidence-based Practice	721(8)
Leadership and Development in Specialist Practice	743(8)
Nursing Education Practice	747(33)
Praxis of Specialist Practice	746(8)
Teaching and Learning Strategies	744(28)

Assessment and examination

- A variety of formative and summative assessment methods are used. You will be assessed based on:
 - assignments;
 - the application of research principles and methods;
 - case studies;
 - portfolios of evidence; and
 - written tests and examinations.
- Each module is assessed separately, and you must achieve at least 50% in a module to pass.
- If you fail a module for the second time, you will not be allowed to continue with the programme.

Enquiries

Programme leader: Ms L Schutte

Tel: 021 938 9628/9036 E-mail: lorainev@sun.ac.za

5.1.9.7. Postgraduate Diploma in Health Service Management

Please note: This programme was redesigned according to amended requirements by the South African Nursing Council (SANC). The new programme was submitted for accreditation to the Department of Higher Education and Training (DHET) and the Council on Higher Education (CHE), as well as for registration with the South African Qualifications Authority (SAQA) and SANC. The programme will be implemented as soon as the accreditation and registration of the programme has been finalised with all external bodies.

Specific admission requirements

- A bachelor's degree in nursing on NQF level 8, a four-year diploma in nursing or an equivalent nursing qualification on NQF level 7; or
- A bachelor's degree in Nursing (R174) and the Diploma in Nursing: General Nurses (R171) with the Advanced Diploma in Midwifery (R1497).
- Registration with SANC as a Professional Nurse and Midwife (NQF level 8) or a General Nurse with a Midwifery qualification (NQF level 7).
- Two years' experience as a Registered/Professional Nurse and Midwife which includes experience in the field of the speciality within the last two years.
- Computer literacy is highly recommended.

Application procedure and closing date

Apply online at www.maties.com by **31 October** of the previous year.

Duration of programme

The programme extends over one academic year.

Programme description

The programme studies the role of the nursing manager in ensuring efficient management at the various levels of healthcare services. This includes applying managerial and leadership principles in an ethical way, managing human capital, evaluating and drawing up of policies, managing public health and finances and risks and disasters, and utilising research and technological skills to improve healthcare outcomes and quality of work life for nursing staff.

The teaching method is based on the following principles:

- You will be required to learn and study independently while the educator provides guidance and facilitates learning.
- Your analytical, critical, reflective and creative thinking skills will be developed through problem-solving, assignments, e-learning assessments on SUNLearn (<http://learn.sun.ac.za>), case studies, etc.
- You will be exposed to clinical practice so that you can relate theory to practice for yourself. In the health services management field, this occurs through experiential learning.
- Approved/accredited healthcare facilities will offer you the opportunity to apply your skills and knowledge in your own practice to become a more proficient health services manager.
- The theoretical component directly relates to the practical objectives of the programme to broaden your knowledge of health services management.

Presentation

Theory is presented in block periods on the Tygerberg Campus and as telematic presentations as per the academic calendar. Work-integrated learning comprises of simulation learning, clinical practice for experiential learning and role-taking at clinical facilities that SANC has specifically accredited for Stellenbosch University.

Programme content

You must achieve at least 50% in the required nursing management practicums for a specific module to qualify for admission to the examination in that module.

Evidence-based Practice	XXX(8)
Health Services Management Practices	XXX(26)
Human Resource Management	XXX(20)
Leadership and Development in Specialist Practice	XXX(8)
Leadership and Management	XXX(30)
Praxis of Specialist Practice	XXX(8)
Risk and Financial Management	XXX(20)

Assessment and examination

- A variety of formative and summative assessment methods are used. You will be assessed based on:
 - assignments;
 - the application of research principles and methods;
 - skills in respective specialist areas;
 - case studies;
 - discussions with hospital management on the policy, protocols and managerial functions addressed in each specific module;
 - portfolios of evidence; and
 - written tests and examinations.
- Each module is assessed separately, and you must achieve at least 50% in a module to pass.
- If you fail a module for the second time, you will not be allowed to continue with the programme.

Enquiries

Programme leader: Dr C Young

Tel: 021 938 9622/9036 E-mail: cornelle@sun.ac.za

5.1.9.8. Postgraduate Diploma in Emergency Nursing

Please note: This programme was redesigned according to amended requirements by the South African Nursing Council (SANC). The new programme was submitted for accreditation to the Department of Higher Education and Training (DHET) and the Council on Higher Education (CHE), as well as for registration with the South African Qualifications Authority (SAQA) and SANC. The programme will be implemented as soon as the accreditation and registration of the programme has been finalised with all external bodies.

Specific admission requirements

- A bachelor's degree in nursing on NQF level 8, a four-year diploma in nursing or an equivalent nursing qualification on NQF level 7; or
- A bachelor's degree in Nursing (R174) and the Diploma in Nursing: General Nurses (R171) with the Advanced Diploma in Midwifery (R1497).
- Registration with SANC as a Professional Nurse and Midwife (NQF level 8) or a General Nurse with a Midwifery qualification (NQF level 7).
- Two years' experience as a Registered/Professional Nurse and Midwife which includes experience in the field of the speciality within the last two years.
- Computer literacy is highly recommended.

Application procedure and closing date

Apply online at www.maties.com by **31 October** of the previous year.

Duration of programme

The programme extends over one academic year.

Programme description

The programme aims to develop you into a critically thinking, creative and reflective practitioner who not only takes the lead in providing emergency nursing care, but also serves as a resource on emergency nursing services in South Africa. It will equip you with an in-depth knowledge and therapeutic skills to diagnose, treat, care for and manage critically or injured patients in a variety of emergency settings. The programme will also help you to understand the context and dynamics of our health services system, and how this affects emergency nursing service delivery.

Presentation

Theory is presented in block periods on the Tygerberg Campus and as telematic presentations as per the academic calendar. Work-integrated learning comprises of simulation learning, clinical practice for experiential learning and role-taking at clinical facilities that SANC has specifically accredited for Stellenbosch University.

Programme content

Evidence-based Practice	XXX (8)
Leadership and Development in Specialist Practice	XXX (8)
Praxis of Specialist Practice	XXX (8)
Principles and Processes of Emergency Nursing	XXX (28)
Specialist Emergency Nursing Practice	XXX (45)
System Abnormalities: Emergency Nursing	XXX (23)

Assessment and examination

- A variety of formative and summative assessment methods are used. You will be assessed based on:
 - assignments;
 - the application of research principles and methods;
 - patient case presentations;
 - case studies;
 - clinical skills;
 - portfolios of evidence;
 - written tests and examinations;
 - group and individual projects; and
 - clinical practice portfolios.
- Each module is assessed separately, and you must achieve at least 50% in a module to pass.
- If you fail a module for the second time, you will not be allowed to continue with the programme.

Enquiries

Programme leader: Ms S de Lange

Tel: 021 938 9293/9828 E-mail: santeldl@sun.ac.za

5.1.10 Postgraduate Diploma in Occupational Medicine*Specific admission requirements*

- Have an MBChB degree (or equivalent) for at least two years.
- Registered for at least one year as medical practitioner in the category independent practice with the Health Professions Council of South Africa or equivalent professions council if you do not practise in South Africa.

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**.

The number of students admitted to each two-year cycle of the programme are limited to suit the logistical and other specific programme requirements. The Postgraduate Programme Committee of the Division of Health Systems and Public Health evaluate all applications by means of a scoring system to identify successful applicants, taking into consideration academic merit, equity measures and other relevant factors. Senate, or the Executive Committee acting on its behalf, will confirm whether you are admitted to the Postgraduate Diploma in Occupational Medicine programme.

Duration of programme

The programme extends over two years.

Programme description

The programme aims to equip you as a medical practitioner with knowledge and skills of appropriate breadth and depth in occupational health so that you can comply with the legal requirements for practicing occupational health in South Africa. At the end of the programme, you will be able to effectively plan, implement and manage occupational health services, and effectively manage patients with an occupational health-related disease and/or injury within the multidisciplinary team.

Programme outcomes

On completion of the diploma programme, you will be able to demonstrate the following:

- Effective management of individuals with occupational-related diseases or injuries utilising appropriate knowledge and skills in occupational medicine, which includes appropriate screening, correct diagnosis and treatment, as well as appropriate referral for further treatment.
- The ability to identify and quantify occupational health-related problems within the worker community and act appropriately by formulating and implementing viable solutions based on occupational health knowledge and skills of appropriate depth and breadth.
- The ability to act as a coordinating link between the employer, the employee and the multidisciplinary team in Occupational Health to ensure optimal worker health.
- The ability to plan, implement and effectively manage occupational health services based on occupational health knowledge and skills of appropriate depth and breadth.

*Programme content**Theoretical modules (all compulsory)*

Occupational Health Management and Legislation	772(12)
Occupational Hygiene and Risk Management	772(10)
Chemical Risk Factors in the Workplace	772(12)
Physical Risk Factors in the Workplace	772(12)
Ergonomic Risk Factors in the Workplace	772(12)
Biological Risk Factors in the Workplace	773(6)
Psychosocial Risk Factors in the Workplace	773(6)
Clinical Occupational Medicine	771(16)
Evaluation of Disability and Fitness for Work/Employment	771(16)
Research Methodology	772(10)
Health Promotion and Communication	773(4)
Environmental Medicine	773(4)

Practical module (not compulsory)

Exposure through Industrial Visits	773(6)
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Assessment and examination

- The examination in this programme is conducted in November of the second year of enrolment.
- The examination consists of three three-hour papers and the minimum pass mark is 50%.
- The final mark is calculated on the basis of a weighted average in the ratio 30:70 for the flexible assessment and the examination mark.
- If you fail the November examination, you will be admitted to a re-examination in the following January if you have achieved a final mark of at least 40%. The re-examination will be a structured oral assessment.

Enquiries

Programme leader: Dr SE Carstens

Tel: 021 938 9206 E-mail: sec@sun.ac.za

5.1.11 Postgraduate Diploma in Rural Medicine*Specific admission requirements*

For admission to the Postgraduate Diploma in Rural Medicine, you must hold a bachelor's degree (e.g. MBChB) and be qualified as a medical practitioner, with at least two years' post-qualification practical experience as a medical intern or in an equivalent position. You must provide proof of registration with the Health Professions Council of South Africa (HPCSA) or demonstrate that you will be able to meet the requirements of the HPCSA. You must apply in writing for admission, accompanied by a CV and a motivation letter, which should include evidence of your clinical competency and experience, and of your sustained interest in rural health in Africa and in leadership and management. Selected applicants may be invited to an interview. Community service doctors are also eligible to enrol in the programme.

Programme description

The programme is intended to provide doctors wishing to work in rural district hospitals in South Africa and elsewhere in Africa with the necessary knowledge, skills and approaches for practice in these contexts. After completing the course, you will have the clinical skills to manage a range of patients at a rural district hospital with limited specialist support, be able to work with the local healthcare team and maintain effective healthcare delivery systems, understand appropriate public health interventions and participate in community-oriented primary healthcare and use reflective practice to enable continuous development as a rural health practitioner.

This Postgraduate Diploma is presented by the Ukwanda Centre for Rural Health, based on the Stellenbosch University Worcester campus. You must spend an initial period of at least six months in a regional hospital and then at least one year in a rural district hospital.

Duration

The programme extends over a minimum of 18 months.

Programme content

You must pass all four modules:

Clinical Skills for District Hospitals	775(55)
Major Infectious Disease Challenges	775(15)
Clinical Governance in District Health Services	775(25)
Delivering Healthcare in Rural Communities	775(25)

The major clinical module, Clinical Skills for District Hospitals, focuses on high-risk areas (the emergency centre, the labour ward and the operating theatre). The module is presented in two formats: as an intensive, structured six-month programme at Worcester Hospital or a similar institution with which Stellenbosch University has a formal arrangement, where you will work

as a supernumerary registrar; or as a longer programme at a regional hospital where there is appropriate supervision by experienced practitioners accredited with the Stellenbosch University Faculty of Medicine and Health Sciences. Following demonstration of competence in the skills required for this module, you must spend a minimum of one year in rural district hospitals, where the remainder of the programme will be completed.

The other three modules will be offered as blended learning and will include e-learning, guided self-study, assignments, logbook entries, self-reflection tasks and formal seminars.

Assessment and examination

The assessment of each module will depend on its leaning content, which includes the following:

- Clinical Skills for District Hospitals: competency assessment, logbook entries and reports by the supervising doctor where you have been placed.
- Major Infectious Disease Challenges: online tests consisting of multiple-choice questions.
- Clinical Governance in District Health Services: participation in online discussion groups, a report on your quality improvement project and a reflective report on learning.
- Delivering Healthcare in Rural Communities: participation in online discussion groups, a synoptic report on local healthcare needs and services, and a report on community-oriented primary care interventions.

The pass mark is 50% and a mark of 75% is required to pass with distinction.

If you wish to obtain credits for any clinical competencies, in particular for the clinical domains in the module Clinical Skills for District Hospitals, you must demonstrate your competence in the specified areas through an appropriate assessment.

Enquiries

Programme leader: Prof. Ian Couper

Programme administrator: Mrs Colleen Warrington

Tel.: 023 346 7816 E-mail: cwarrington@sun.ac.za

5.2 Honours degrees

5.2.1 Bachelor of Science Honours

Please note: If you are applying for admission to one of the BScHons programmes of the Faculty of Medicine and Health Sciences, you must be aware that there is a possibility that a programme will not be offered if there are not enough qualifying candidates to fill it. In such cases, the University will directly communicate this decision with applicants in November of the year before study.

Programme description

The purpose of the programme is to equip you with the insight, practical skills and in-depth knowledge with regard to your chosen field of study. On completion of the programme, you must be able to function independently as a researcher and academic in the South African context.

The programme aims:

- to promote health care in the South African community;
- to facilitate and innovate health research;
- to facilitate critical and ethical reasoning;
- to promote evaluation management, communication and scientific knowledge;
- to prepare students for further study; and
- to promote lifelong study.

Admission of diplomates to BScHons studies

If you have a National Higher Diploma in Medical Technology, you may be considered for admission to the Bachelor of Science Honours degree if you:

- have obtained a relevant bachelor's degree or equivalent qualification at a recognised institution for tertiary education;

or

- in exceptional cases, meet the following minimum requirements:
 - you must hold the matriculation certificate or exemption certificate of the Matriculation Board;
 - you must provide proof of above-average academic results during your diploma programme; and
 - prior to admission, you must have been academically associated and/or professionally active for a minimum period of three years, during which you at least completed one research project successfully and published in a recognised journal.

You must have passed a preliminary examination:

- that was conducted according to the clearly defined criteria stipulated by the Faculty Board, in order to ensure an adequate scientific standard;
- that was designed to assess your theoretical background and scientific maturity; and

- that was conducted by the head of the department or division in which the intended postgraduate studies are envisaged, or by his/her delegate, together with at least one other expert in the relevant field of study who has been nominated by the Dean.

You will be considered on merit by the Committee for Postgraduate Education on the basis of a *curriculum vitae* and a written recommendation by the Preliminary Examination Committee.

Admission of candidates with a BTech to BScHons studies

If you have an appropriate Bachelor of Technology degree or equivalent qualification from a recognised institution for tertiary education, you may be considered for admission to the Bachelor of Science Honours degree, provided that:

- departments/divisions may require supplementary work;
- you must provide proof of above-average academic performance during the degree programme; and
- you have passed a preliminary examination:
 - that was conducted according to clearly defined criteria stipulated by the Faculty Board in order to ensure an adequate scientific standard;
 - that was designed to assess your theoretical background and scientific maturity; and
 - that was conducted by the head of the department or division as convenor in which the intended postgraduate studies are envisaged, or by his/her delegate, together with at least one other expert in the relevant field of study who has been nominated by the Dean.

You will be considered on merit by the Committee for Postgraduate Education on the basis of a *curriculum vitae* and a written recommendation by the Preliminary Examination Committee.

5.2.1.1. BScHons in Anatomy

Specific admission requirements

One of the following qualifications from a recognised institution:

- BSc with Anatomy as major subject, and Biochemistry, Physiology, Genetics, Microbiology or Zoology as an additional major;
- MBChB or BChD;
- BTech with appropriate subjects and motivation. Depending on the specific field of study, additional work may be required or you may be required to complete an admission examination; or
- any other relevant qualification approved by Stellenbosch University Senate.

For all of the abovementioned qualifications you must have obtained at least 65% in the Anatomy modules of the second and third years, and at least 65% in the additional major.

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**.

Duration of programme

The programme extends over one year on a full-time basis and two years on a part-time basis.

Please note: The formal programme starts in the first week of January.

Programme description

The programme aims to address the national shortage of anatomists. It consist of a theoretical and a practical component which will not only enable you to be involved in training, but will also equip you with a thorough knowledge on the use of human tissue for research purposes.

Programme content

Compulsory modules (100 credits)

Anatomical Techniques and Laboratory Practice	771(10)
Gross Regional Anatomy	771(20)
Microscopic Anatomy and Histological Technique	771(20)
Legal and Ethical Aspects and Use of Animals in Research	771(10)
Assignment (Anatomy)	771(40)

Elective modules

Choose modules to a total of 20 credits.

Clinical and Surgical Anatomy	771(10)
Comparative Anatomy	771(10)
Developmental Anatomy	771(10)
Physical and Forensic Anthropology	771(20)
Human Anatomical Variation	771(10)
Radiological Anatomy	771(10)

Assessment and examination

- You must obtain a subminimum of 50% for each of the following assessment components:
 - an assessment covering the subject content of the compulsory modules (50% of final mark);
 - an assessment covering the subject content of the elective modules (17% of final mark); and
 - successful completion and submission of the assignment (33% of final mark).
- The final mark is determined by calculating the weighted average of the marks you obtained in each of the assessed components.

Enquiries

Programme leader: Dr KJ Baatjes

Tel: 021 938 9397 E-mail: kbaatjes@sun.ac.za

5.2.1.2. BScHons in Biokinetics*Specific admission requirements*

- A bachelor's degree with Sport Science as one of the majors and which Senate has approved for this purpose.
- You must apply in writing to be admitted to the programme by Senate, or the Executive Committee that acts on behalf of Senate.
- An average final mark of at least 60% in Sport Science subjects (theory and practicals) during your undergraduate years.

Application procedure and closing date

Apply in writing to the departmental chair or Registrar by **31 July** of the previous year. Only a limited number of students will be accepted to the Biokinetics specialisation.

Duration of programme

The programme extends over one year on a full-time basis.

Programme content

An internship period that meets the conditions laid down by the Health Professions Council of South Africa (HPCSA) will be required before you can apply for registration as a Biokineticist in an independent practice.

Compulsory modules

Biokinetics Practice	772(20)
Ergonomics	775(20)
Exercise Physiology	774(20)
Exercise Science	771(30)
Research Project	773(30)

Assessment and examination

The programme is assessed flexibly and includes theoretical and practical assignments, as well as informal class tests and formal tests. All assessments contribute to the final mark for each module.

You must obtain a class mark of 40% per module for admission to the written examination. To pass Biokinetics Practice 772, you must pass the written examination with at least 50%, as well as pass a practical and an oral examination at the end of the year with at least 50%. The final mark for each module consists of 50% of the examination mark and 50% of the class mark.

Enquiries

Programme leader: Dr KE Welman

Tel: 021 808 4718 E-mail: welman@sun.ac.za

Website: www.biokinatsun.co.za

5.2.1.3. BScHons in Clinical Human Genetics*Specific admission requirements*

- One of the following qualifications from this University or another recognised tertiary training institution:
 - an MBChB or BChD degree; or
 - a Bachelor's degree in a clinical discipline, e.g. Nursing.

- At least 60% in the final examination.
- You may be admitted with an average below 60% based on:
 - an adequate motivation;
 - successful completion of additional work; or
 - proof of competence.

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**.

Duration of programme

The programme extends over one year on a full-time basis or two years on a part-time basis.

Programme content

Human Genetics Theory	771(60), 773(60)
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Assessment and examination

The final mark will be calculated as follows:

- project report/assignment: 20%
- two written examinations: 80%

Enquiries

Programme leader: Dr M Urban

Tel: 021 938 9787 E-mail: urban@sun.ac.za

5.2.1.4. BScHons in Epidemiology

Please note: This programme is currently not offered.

Specific admission requirements

One of the following qualifications of this University or another recognised university:

- an MBChB or BChD degree;
- a Bachelor's degree in a biological discipline that preferably includes a one-year programme in Mathematics and/or Statistics; or
- an equivalent qualification approved by Senate for this purpose, on condition that you have passed Mathematics at school-leaving level.

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**.

Duration of programme

The programme is presented on a part-time basis over two academic years.

Presentation

The programme consists of two compulsory modules and weekly contact sessions of two hours each.

Programme content

Biostatistics	772(60)
Epidemiology	771(60)

Assessment and examination

- Two formal class tests that are taken in the course of the two academic years and culminates in three three-hour examination papers:
 - one covering the field of Epidemiology;
 - one covering the field of Biostatistics; and
 - one being problem based, covering integrated examples.
- The written assessments are complemented by a problem-based, integrated compulsory oral examination attended by an external examiner (after also having moderated the students' written examination papers).
- The final mark for the programme is calculated as follows:
 - assessment by means of two written class tests (20% of the final mark);
 - three written examination papers (60% of the final mark); and
 - an oral examination (20% of the final mark).
- You must pass both modules with a minimum of 50% to obtain the degree.

Enquiries

Tel: 021 938 9886

5.2.1.5. BScHons in Hyperbaric Medicine*Specific admission requirements*

- The MBChB degree of this or another recognised university, or an equivalent qualification acceptable for registration as medical practitioner in the category independent practice.
- A completed internship year(s).
- A valid diving medical fitness certificate (or the ability to get one before participating in hyperbaric exposures).

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**. Only a limited number of students are admitted to the programme.

Duration of programme

The programme extends over one year on a full-time basis or two years on a part-time basis.

Programme description

The programme trains medical practitioners in the field of hyperbaric medicine. As a medical practitioner you are exposed to various hyperbaric medicine concepts, with the main focus being on the practice of hyperbaric medicine in the clinical hospital setting. This programme does not cover the occupational health aspects related to diving medicine or hyperbaric tunnelling. These occupational health aspects are covered in the Underwater Medicine programme.

Programme content

Basic Hyperbaric Medicine	772(25)
Operational Hyperbaric Medicine	773(35)
Advanced Hyperbaric Medicine	774(20)
Research Methodology	775(10)
Research Assignment	776(30)

Assessment and examination

- You write examinations only on the modules that you have completed. If you complete the entire programme, your final mark will be calculated on the basis of:
 - the successful completion of the examinations set for each module (10% of final mark);
 - two written three-hour closed-book examination papers (50% of final mark);
 - an oral examination of at least 30 minutes (20% of final mark); and
 - a research project demonstrating competence in basic research methodology (20% of final mark).

Enquiries

Programme leader: Dr WAJ Meintjes

Tel: 021 938 9272 E-mail: wajm@sun.ac.za**5.2.1.6. BScHons in Medical Microbiology**

Please note: The name of this degree programme will change to BScHons in Infectious Disease Pathology and Immunology pending approval by the Council on Higher Education.

Specific admission requirements

- A relevant BSc degree from a recognised university with a combination of appropriate subjects, such as Microbiology, Biochemistry, Biotechnology and Genetics.
- A pass mark of 60% or higher in the final year.

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**.

If the number of applicants exceed the intake capacity, the Postgraduate Programme Committee of the Division of Medical Microbiology will shortlist candidates on the basis of their *curriculum vitae*. Final selection will be done after a brief interview.

Duration of programme

The programme extends over one year on a full-time basis or two years on a part-time basis.

Programme content

Theory of Medical Microbiology	776(60)
Practical Research Project	771(60)

Assessment and examination

- Assessment of the theoretical module is done by means of:
 - flexible assessment (5% of the final mark);
 - a semester examination (20% of the final mark);
 - a final examination (20% of the final mark); and
 - an oral examination (5% of the final mark).
- Assessment of the practical research project module is done by means of:
 - research related workbooks;
 - assignments and seminars; and
 - a mini-thesis (50% of the final mark).
- You must obtain a subminimum of 50% for each module to pass.

Enquiries

Programme leader: Dr M Newton-Foot

Tel: 021 938 4009/4032 E-mail: maen@sun.ac.za

5.2.1.7. BScHons in Medical Physiology*Specific admission requirements*

One of the following qualifications of this University or another recognised university:

- a BSc degree majoring in Physiology, or equivalent qualification with Physiology passed at third-year level with a final mark of at least 60%;
- an MBChB or BChD degree, or equivalent qualification; or
- a BVSc or BPharm degree, or equivalent qualification.

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**.

Duration of programme

The programme extends over one year on a full-time basis.

Programme content

Theoretical Medical Physiology	771(60)
Research in Medical Physiology	772(60)

Assessment and examination

The final mark for the programme will be calculated on the basis of the following:

- one written closed-book test and one written closed-book examination on the theoretical work;
- an open-book examination;
- flexible assessment;
- a research project presentation; and
- a mini-thesis.

Enquiries

Programme leader: Dr G Maarman

Tel: 021 938 9392 E-mail: gmaarman@sun.ac.za

5.2.1.8. BScHons in Medical Virology

Please note: The name of this degree programme will change to BScHons in Infectious Disease Pathology and Immunology pending approval by the Council on Higher Education.

Specific admission requirements

- A recently obtained BSc degree with majors in Microbiology, Biochemistry, Genetics or a similar field of study.
- A pass mark of 60% or higher in the final year.

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**.

The Division of Medical Virology compiles a shortlist of final-year students with an average of 60% in the June examinations and invites a select number of candidates for an informal interview in October/November. Successful candidates must also obtain an average of 60% or higher in the final-year examinations to be admitted to the programme.

Only a limited number of students can be admitted to the programme. If you fail to meet these criteria, you will automatically be disqualified.

Duration of programme

The programme extends over one year.

Programme description

The programme forms part of continued efforts to create a learning culture for students and researchers capable of making a significant contribution to the field of Medical Virology. Medical Virology offers practical research experience, focusing specifically on research relevant to Africa.

Programme content

Theory of Medical Virology	771(60)
Practical Research Project (Medical Virology)	772(60)

Assessment and examination

- Assessment of the theoretical module is done by means of:
 - seminars (5% of the final mark);
 - four block tests (20% of the final mark);
 - a final examination (20% of the final mark) and
 - an oral examination (5% of the final mark).
- The practical research module is assessed by means of:
 - the study activity portfolio, and rotation and project workbooks (5% of the final mark);
 - assignments (10% of the final mark); and
 - a research assignment (35% of the final mark).
- You must obtain a subminimum of 50% for each module to pass the degree.

Enquiries

Programme leader: Dr C de Beer

Tel: 021 938 9453 E-mail: cdeb@sun.ac.za

5.2.1.9. BScHons in Molecular Biology*Specific admission requirements*

- An average final mark of more than 60% in one of the following qualifications from a recognised tertiary training institution:
 - a bachelor's degree with Biochemistry, Genetics, Microbiology or Biotechnology at third-year level; or
 - an MBChB or BChD degree.
- You may be admitted with an average final mark of less than 60% for the BSc at third-year level based on:
 - an adequate motivation and/or
 - successful completion of additional work, and
 - proof of competence.

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**.

Duration of programme

The programme extends over one year on a full-time basis.

Programme description

This programme will equip you with both a theoretical and practical background in the basic concepts of molecular biology. The programme consists of lecture attendance, participation in discussion of academic journals, writing a literature review, participation in a six-month research project, a research report, a research presentation, and written mid-year and end-of-year examinations. The programme overlaps with the BScHons (Human Genetics) programme, but includes separate lectures on mycobacteriology in the context of tuberculosis.

Programme content

Molecular Biology Theory	715(45)
Molecular Biology Project	775(75)

Assessment and examination

- You must pass both modules with a minimum of 50% to earn the applicable credits.
- If you do not pass the theory module with a minimum of 50% after the second opportunity, you will not be permitted to continue with the research project.
- Assessment opportunities include:
 - two written examinations and a review article for the theory module; and
 - a research report, research presentation, supervisor's report and written examination for the project module.

- The calculation of the final mark is subject to the “Provisions Relating to Examinations and Promotion” set forth under the chapter “University Examinations” in Part 1 (General) of the Calendar.

Enquiries

Programme leader: Dr JG Jackson

Tel: 021 938 9400 E-mail: jacksonj@sun.ac.za

5.2.1.10. BScHons in Morphological Sciences

Specific admission requirements

- A relevant BSc degree from a recognised university, with appropriate subjects such as Physiology, Histology, Zoology or Anatomy as majors.
- Additional work may be required for majors in other subjects, such as Genetics or Microbiology, or with a BTech degree.
- A pass mark of 60% or more in the final year.
- You may be requested to complete Stellenbosch University’s academic English language proficiency test.

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**.

Duration of programme

The programme extends over one year on a full-time basis.

Please note: The formal programme starts in the first week of January.

Programme content

The General Macroscopic Anatomy and Histology module, as well as the research project, are presented for the duration of the programme.

Morphological Sciences Research Project	775(60)
General Microscopic Anatomy and Histology	775(60)

Assessment and examination

- You must pass each module with a final mark of 50% to obtain the degree.
- The year mark is compiled of the following assessment opportunities:
 - the research project entails the assessment of a written report and oral presentations;
 - for all the themes within the General Macroscopic Anatomy and Histology module, written tests and/or practical tests, and reports or portfolios will be assessed.

Enquiries

Programme leader: Prof SH Kotzé

Tel: 021 938 9428 E-mail: shk@sun.ac.za

5.2.1.11. BScHons in Nuclear Medicine

Specific admission requirements

- One of the following qualifications of this or another recognised university:
 - the MBChB degree; or
 - a Bachelor’s degree with Physiology as a major subject, and Physics I; or
 - a bachelor’s degree with either Biochemistry or Chemistry as a major subject, provided that, where Physiology is not the second major subject, it must be taken as a supplementary subject to the satisfaction of Senate.
- A minimum pass mark of 60% in the major subject is a prerequisite.
- If you have a BTech qualification, you may be considered for admission if you have:
 - passed the BTech degree with a minimum pass mark of 60%; and
 - passed a preliminary Nuclear Medicine examination (as determined by the Postgraduate Programme Committee) with a minimum examination mark of 60%.

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**.

Duration of programme

The programme extends over one year on a full-time basis or two years on a part-time basis.

Programme content

Radiation Physics and Instrumentation	771(30)
Clinical Nuclear Medicine	772(60)
Research Assignment (Nuclear Medicine)	773(30)

Assessment and examination

- You must pass all three modules with a minimum mark of 50% to obtain the qualification.
- As a part-time student you will be permitted to write the examinations as follows:
 - one three-hour paper after the first year; and
 - two three-hour papers and an oral examination after two years.
- As a full-time student you will be permitted to write the examinations as follows:
 - Three three-hour papers and an oral examination after one year.

Enquiries

Programme leader: Prof A Ellmann

Tel: 021 938 4265 E-mail: ae1@sun.ac.za

5.2.1.12. BScHons in Pathology*Specific admission requirements*

One of the following qualifications:

- an MBChB or BChD degree or equivalent qualification considered as adequate by this University; or
- a bachelor's degree from a recognised university, with Anatomy, Physiology, Histology, Chemistry, Biology, Genetics or Microbiology as major at third-year level, or another qualification approved by Senate. If you have other major subjects at third-year level, you may be admitted on the basis of an adequate motivation and successful completion of an admission examination. Depending on the field of study, additional work and/or proof of competence may be required; or
- a BTech degree, on condition that you meet all the requirements as determined by the University. Depending on the field of study, additional work and/or proof of competence may be required.

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**.

Duration of programme

The programme extends over a minimum of one year.

Programme outcomes

On completion of this programme, you will demonstrate skills in:

- the identification and solving of problems;
- the efficient and responsible application of scientific methods and technology;
- the efficient collection, organisation, analysis, evaluation, integration and application of information;
- competent and efficient personal organisation and self-management;
- personal self-development, with an emphasis on insight, responsibility, accountability, continued learning, self-criticism, acceptance of criticism from others, and the ability to work independently;
- the ability to work as part of a team and to add value to the group as a whole by way of constructive cooperation;
- effective communication through the competent presentation of information;
- development of a holistic approach to problem solving within the context of respect and sensitivity towards other people, the community and the environment;
- imparting understanding of the importance of health sciences in general, and laboratory medicine in particular, to the community through the communication of information and results and the transfer of relevant technology; and
- awareness of the opportunities, challenges, needs, requirements and ethical principles that apply to research and good laboratory practice in the health sciences profession.

In addition, you must have:

- a sound knowledge of the theoretical principles applicable to the subject matter of the compulsory and relevant choice module in pathology;
- the ability to work independently on assignments and research projects;
- the ability to critically evaluate and utilise information to solve problems effectively by means of appropriate methods with regard to the pathology discipline(s) concerned;
- the ability to apply technical skills and scientific methods, and to use relevant equipment to conduct research that adheres to the applicable legal, safety and bioethical requirements; and

- the ability to design a research project independently, to perform such a project within a group, to present the results and conclusions in an appropriate scientific format and to accept responsibility for them.

Programme content

Compulsory modules

Laboratory Practice	776(3)
Epidemiology and Research Methodology	775(10)
Introduction to Molecular Pathology	775(17)
Pathology Research Project	775(60)

Elective modules

Choose one of the following modules.

Anatomical Pathology	775(30)
Chemical Pathology	775(30)
Haematology	775(30)
Immunology	775(30)

Assessment and examination

- The final mark is determined by the weighted average of the marks for the components that are assessed.
- You obtain a subminimum of 50% for each of the following assessment components:
 - Compulsory modules
 - evaluation of practical skills
 - a log-book on the learning activities and skills mastered, including a summary of the laboratory log-book
 - a combination of class tests, assignments and reports where applicable
 - Pathology research project
 - successful completion of the research project
 - a written report and oral presentation on completion of the research project
 - Elective module
 - a three-hour written examination
- You need a final mark of 50% to obtain the degree and a mark of 75% or higher to pass the degree with a distinction.

Enquiries

Enquiries	Division	E-mail	Telephone
Prof JW Schneider	Anatomical Pathology	jws2@sun.ac.za	021 938 4041
Prof MJ Kotze	Chemical Pathology	maritha@sun.ac.za	021 938 4168 021 938 4107
Dr CC Swanepoel	Haematological Pathology	carmens@sun.ac.za	021 938 4103 021 938 4608

5.2.1.13. BScHons in Pharmacology

Specific admission requirements

- One of the following qualifications of this University or another recognised university:
 - a BSc degree majoring in Physiology, Biochemistry or Microbiology, with a final mark of at least 60% for subjects at third-year level;
 - an MBChB or BChD degree, or equivalent qualification;
 - a BPharm degree, or equivalent qualification; or
 - an equivalent qualification as approved by Senate.
- International candidates must provide proof of the equivalence of qualifications obtained from a non-South African Institute. A SAQA (South African Qualifications Authority) certificate must be submitted.

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**.

Duration of programme

The programme extends over one year on a full-time basis.

Programme content

Principles of Pharmacology	774(40)
Pharmacology of Systems	775(40), 776(40)

Assessment and examination

- The final mark for the programme will be calculated based on the following:
 - three written examinations covering the theoretical work (45% of the final mark);
 - assessment by means of class tests (15% of the final mark);
 - assignment and presentation (20% of the final mark); and
 - oral examination (20% of the final mark).
- You must submit a satisfactory assignment based on a pharmacology/toxicology project. The purpose of the assignment is to determine your ability to independently execute a scientific investigation and interpret the results of the investigation.

Enquiries

Programme leader: Dr T Kellermann

Tel: 021 938 9281 E-mail: tkellermann@sun.ac.za

5.2.1.14. BScHons in Reproductive Biology*Specific admission requirements*

- A Bachelor's degree of this or another recognised university with either Physiology, Biochemistry, Microbiology or Human Genetics as the major subject, and at least one of said subjects at second-year level.

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**.

Duration of programme

The programme extends over one year on a full-time basis or two years on a part-time basis.

Programme content

Andrology	771(45)
In Vitro Fertilisation	741(45)
Research Project	771(30)

Assessment and examination

- Each module will be assessed separately and on a flexible basis and you must obtain a combined assessment mark of 50%.
- For examination purposes, two three-hour papers must be written, and an oral examination will be conducted.

Enquiries

Programme leader: Dr M-L de Beer

Tel: 021 938 4940/5487 E-mail: mlw@sun.ac.za

5.2.1.15. BScHons in Sport Science (Performance Sport)*Specific admission requirements*

- A bachelor's degree with Sport Science as one of the majors that Senate has approved for this purpose.
- You must apply in writing to be admitted to the programme by Senate, or the Executive Committee that acts on behalf of Senate.
- An average final mark of at least 60% in Sport Science subjects (theory and practicals) during your undergraduate years.

Application procedure and closing date

Apply in writing to the departmental chair or Registrar by **31 July** of the previous year. Only a limited number of students are admitted to the specialisation in Performance Sport.

Duration of programme

The programme extends over one year on a full-time basis and two years on a part-time basis.

Programme content

The compulsory modules are indicated in the table below. Apart from the compulsory modules, you can choose additional elective modules. See the table directly following the compulsory modules for the elective modules.

Compulsory modules

Professional Practice in Sport Science	773(30)
Research Project	771(30)
Current Topics in Sport and Exercise Science	721(12) or 751(12)
Biomechanics	712(12)
Exercise Physiology	743(12)
Sport Psychology	712(12)
Applied Exercise Physiology	714(12)

Elective modules

Exercise Psychology	713(12)
History of Sport	745(12)
Kinanthropometry	715(12)
Motor Control	711(12)
Motor Learning	741(12)
Sport for Persons with Disabilities	772(12)
Statistics for Sport Science and Exercise Science	772(12)

Assessment and examination

The programme is assessed flexibly and includes theoretical and practical assignments, as well as informal class tests and formal tests. All assessments contribute to the final mark for each module.

You must obtain a class mark of 40% per module for admission to the written examination. To pass Professional Practice in Sport Science 773, you must complete 300 hours of practical work during the course of the year and obtain at least 50% in the two oral examinations, namely in the middle and at the end of the year. The final mark for each module consists of 50% of the examination mark and 50% of the class mark.

Enquiries

Programme leader: Dr SD Jacobs

Tel: 021 808 4736 E-mail: sdjacobs@sun.ac.za

5.2.1.16. BScHons in Sport Science (Kinderkinetics)*Specific admission requirements*

- A bachelor's degree with Sport Science as one of the majors that Senate has approved for this purpose.
- You must apply in writing to be admitted to the programme by Senate, or the Executive Committee that acts on behalf of Senate.
- An average final mark of at least 60% in Sport Science subjects (theory and practicals) during your undergraduate years.

Application procedure and closing date

Apply in writing to the departmental chair or Registrar by **31 July** of the previous year. Only a limited number of students are admitted to the specialisation in Kinderkinetics.

Duration of programme

The programme extends over one year on a full-time basis.

Programme content

The compulsory modules are indicated in the table below. Apart from the compulsory modules, you can choose additional elective modules. See the table directly following the compulsory modules for the elective modules.

Compulsory modules

Professional Practice in Sport Science	773(30)
Research Project	771(30)
Current Topics in Sport and Exercise Science	751(12)
Motor Control	711(12)
Kinanthropometry	715(12)
Sport for Persons with Disabilities	772(12)
Kinderkinetics Theory	772(12)

Elective modules

Applied Exercise Physiology	714(12)
Biomechanics	712(12)
Exercise Physiology	743(12)
Exercise Psychology	713(12)
History of Sport	745(12)
Motor Learning	741(12)
Sport Psychology	712(12)
Statistics for Sport Science and Exercise Science	772(12)

Assessment and examination

The programme is assessed flexibly and includes theoretical and practical assignments, as well as informal class tests and formal tests. All assessments contribute to the final mark for each module.

You must obtain a class mark of 40% per module for admission to the written examination. To pass Professional Practice in Sport Science 773, you must complete 300 hours of practical work during the course of the year and obtain at least 50% in the two oral examinations, namely in the middle and at the end of the year. The final mark for each module consists of 50% of the examination mark and 50% of the class mark.

Enquiries

Programme leader: Dr E Africa

Tel: 021 808 4591 E-mail: Africa@sun.ac.za

5.2.1.17. BScHons in Underwater Medicine*Specific admission requirements*

- The MBChB degree from this or another recognised university, or an equivalent qualification acceptable for registration as medical practitioner in the category independent practice.
- Completed internship year(s).
- A valid diving medical fitness certificate (or the ability to get one before participating in hyperbaric exposures).

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**. Only a limited number of students are admitted to the programme.

Duration of programme

The programme extends over one year on a full-time basis or two years on a part-time basis.

Programme content

Basic Underwater Medicine	772(30)
Advanced Underwater Medicine	774(20)
Operational Underwater Medicine	773(30)
Research Methodology	775(10)
Research Assignment	776(30)

Assessment and examination

- Individual modules are assessed by means of online tests, a written examination and/or completion of a practical skills logbook. You write examinations only on the modules that you have completed.
- If you complete the entire programme, your final mark will be calculated on the basis of:
 - the examination mark (90% of the final mark) based on:
 - two written three-hour closed-book examination papers (80% of the examination mark); and
 - an oral examination of at least 30 minutes (20% of the examination mark).
 - the weighted flexible assessment marks for the modules (10% of the final mark) based on:
 - successful completion of the online tests, written module examinations and practical assessments in each module;
 - one written three-hour closed-book examination paper on the Research Methodology module; and
 - a research project demonstrating competence in basic research methodology.

Enquiries

Programme leader: Dr WAJ Meintjes

Tel: 021 938 9272 E-mail: wajm@sun.ac.za

5.3 Master's degrees

5.3.1 Master of Medicine

General admission and selection requirements for the MMed programmes

- The following apply to all MMed programmes:
 - For admission to the MMed degree programme, you must have held an MBChB degree from this University or another qualification considered as sufficient by this University for at least three years prior to application, and must be registered with the Health Professions Council of South Africa as medical practitioner in the category independent practice.
If you specialise in Anaesthesiology, Neurosurgery, Emergency Medicine, Otorhinolaryngology, Orthopaedics, and Plastic and Reconstructive Surgery, you must also have completed suitable courses such as ATLS (Advanced Trauma Life Support), ACLS (Advanced Cardiovascular Life Support), PALS (Paediatric Advanced Life Support) and APLS (Advanced Paediatric Life Support). Consult the specific requirements at each programme.
 - If you would like to register as an MMed student with the University, you must occupy a registrar post with the Western Cape Provincial Department of Health or the National Health Laboratory Services. Exceptions to this rule will be considered in the following instances:
 - where you register as a special student with the University (refer also to the section on Admission as Special Student in Part 1 (General) of the Calendar) with the sole purpose of attempting the primary subjects prior to registering as an MMed student and to obtaining a position as registrar; and
 - where you have completed your training time and you are only registering to complete your research assignment.
- If you apply for a training post at the Tygerberg Hospital, the Western Cape Provincial Department of Health or another institution considered as equivalent by this University, you must make sure of the programme-specific recommendations which apply to your MMed programme. Direct any enquiries in this regard to the programme leader of your specific programme.

Application procedure and closing date

Apply in writing. Senate, or the Executive Committee acting on its behalf, will decide whether you are to be admitted to the MMed programme.

There is no specific closing date for applications. When a registrar post becomes vacant at the Department of Health, you apply for that position. If you are successful, you will then be admitted to the MMed programme.

Duration of programme

The training for the degree takes place over four or five years, depending on the requirements of the department/division under which your major subject falls. The term “major subject” refers to the recognised area of Medicine in which you choose to specialise.

If you are appointed as registrar between 1 January and 31 March of the relevant year, you will graduate at the December graduation ceremony directly preceding the completion of the specific four- or five-year prescribed training period, provided that you comply with all the academic requirements of the degree at that stage.

If you have enrolled for a four-year programme, you must successfully complete the full prescribed training period following enrolment in order to register as a specialist with the Health Professions Council of South Africa (HPCSA).

If you have enrolled for a five-year programme, and are already registered as a specialist with the Council on the basis of being a Fellow of the Colleges of Medicine of South Africa, you also have to complete the full prescribed training period following enrolment. The University will then be able to provide the Council with a certificate confirming that an MMed degree qualification can be added to your credentials.

Clinical experience

As a candidate for the MMed degree you must prove to the satisfaction of the University that:

- you have successfully held a full-time training position according to the requirements of the relevant department/division for a period of four or five years at Tygerberg Hospital, the Western Cape Department of Health or another institution that the University deems equivalent. If a programme requires five years of residency, but you can be appointed as specialist after four years, then the first year of appointment is regarded as the last year of training.
- you have received theoretical, practical and clinical training as stipulated in the “Duration of programme” section above.
- you have successfully completed the University examinations – written, oral and practical and/or clinical – as prescribed.

Exemption

- With regard to the work mentioned in the “Duration of programme” and “Clinical experience” paragraphs above, the University may grant possible partial or full exemption based on comparable training received and experience gained at another recognised institution.
- With regard to prescribed modules as mentioned in the section “Programme content” at the various MMed programmes below, the University may grant possible partial or full exemption based on modules passed at another recognised institution.

Continuation of study

- If you do not comply with the provisions relating to promotion of your specific MMed programme and you are denied the right to continue with your MMed studies, you must vacate your registrar post with the Western Cape Provincial Department of Health or the National Health Laboratory Services. This ruling also applies to registrars in supernumerary posts.
- Only in exceptional cases, and with the submission of an appropriate motivation and approval of the departmental programme committee concerned, and the Committee for Postgraduate Teaching and the Faculty Board of the Faculty of Medicine and Health Sciences, will you be allowed to register for the MMed programme once again.

Single national exit examination

- To register as a specialist with the HPCSA you must successfully complete the single national exit examination in your specific field of study. This is an examination independent from that of the University and has an additional cost implication for you.
- It still remains the responsibility of the teaching department at the University to confirm the following:
 - successful completion of prescribed training time and flexible assessment;
 - completion of a research assignment according to the regulations of the University; and
 - submission of a completed case-book.

These assessment components may vary for the different MMed programmes.

Programme description

The purpose of the qualification is to equip you as a basically qualified medical practitioner (with an MBChB or equivalent qualification) with specialised knowledge, as well as with the skills and attitudes required as a specialist in your chosen speciality, that at least agree with the requirements of the Health Professions Council of South Africa. This will enable you to function as an independent practitioner in the relevant field within any service-rendering and academic environment, by acquiring the knowledge, skills and attitudes to:

- deliver comprehensive health care in a conscientious manner to the patient as an individual and as a member of the community;
- develop the attitudes and abilities needed to become an independent learner and to accept the responsibility for continuous lifelong professional development, including the ability to critically evaluate and interpret the relevant literature and to apply it in the profession;
- plan, execute, interpret and publish research relevant to your chosen speciality;
- be able to move, if you so aspire, to the highest level of academic work for doctoral study and to promote an approach based on academic integrity and ethics; and
- contribute to the pool of academics and professionals with the competence and critical intellectual abilities to ensure the future advancement of your chosen speciality, and to make provision for the country’s need for a skilled workforce of the highest quality and to ensure that the country remains competitive in an era of growing global competition.

Different fields of study for the MMed degree

The different fields of study in which the MMed degree can be obtained are set out below.

5.3.1.1. MMed Anaesthesiology**MMed (Anaes)***Specific admission requirements*

This programme does not have specific admission requirements. The general admission requirements for MMed programmes as mentioned in 5.3.1 above are applicable.

Duration of programme

The programme extends over four years.

Programme description

The programme consists of modules on anaesthetics, perioperative care, critical care and pain medicine. These modules will be presented in various formats.

Programme content

Anaesthesiology	874(216)
Applied Physics and Principles of Measuring Techniques	873(48)
Applied Physiological Sciences	872(48)
General Pharmacology	871(48)
Research Assignment	875(120)

Assessment and examination

- Assessment comprises three components:
 - Part I
 - The initial summative assessment is the FCA(SA) Part I Examination of the College of Anaesthetists of South Africa.
 - You must pass all components of the FCA(SA) Part I Examination within two years of your initial registration as a registrar in Anaesthesiology. If you fail to comply with this requirement you will be excluded from the rest of the programme and must vacate your registrar post. Only in exceptional cases, and with the submission of an appropriate motivation, will the Department's Postgraduate Committee consider allowing you to continue in your post.
 - Part II
 - You must successfully complete the single national exit examination. This is currently the FCA(SA) Part II Final Fellowship Examination of the College of Anaesthetists of South Africa, which is administered by the Colleges of Medicine of South Africa.
 - Research assignment
 - You must complete a research assignment as part of the final assessment for the MMed (Anaes) degree, and to be able to register as a specialist anaesthesiologist with the HPCSA. The research assignment must follow the criteria as set out by the Programme Committee of the Department of Anaesthesiology and Critical Care.
- The final mark is calculated as follows:
 - Final examination of the College of Anaesthetists – 75%
 - Research assignment – 25%.
- You need a final mark of at least 50% to obtain the MMed (Anaes) degree, and at least 75% to pass the degree with distinction.
- You must vacate your registrar's post after four years, irrespective of whether or not you have passed the Part II examination. Only in exceptional cases, and on submission of an appropriate motivation, will the Department's Postgraduate Programme Committee consider extending your registrar training period.

Enquiries

Programme leader: Dr S Chetty

Tel: 021 938 9226 E-mail: seanchetty@sun.ac.za

Website: <http://academic.sun.ac.za/anaes/>

5.3.1.2. MMed Clinical Pharmacology

MMed (Clin Pharm)

Specific admission requirements

This programme does not have specific requirements. The general admission requirements for MMed programmes as mentioned in section 5.3.1 above are applicable.

Duration of programme

The programme extends over four years.

Programme description

The programme consists of modules on principles of clinical pharmacology, applied clinical pharmacology, and research methodology. These modules will be presented by means of lectures, tutorials, independent self-study and practical workplace experience, including clinical patient care. Areas that are covered include:

- clinical use of drugs, including pharmacological effects and mechanism of action, pharmacokinetics and drug metabolism, efficacy and side effects of medications;
- advice to health care providers regarding the appropriate and cost-effective use of drugs;
- drug epidemiology;
- legal and ethical issues;
- development of new drugs;
- clinical trials;
- safety of drugs (pharmacovigilance);

- economics of health care; and
- drug regulatory affairs.

Programme content

Principles of Clinical Pharmacology	871(90)
Applied Clinical Pharmacology	871(270)
Assignment (MMed (Clin Pharm))	871(120)

Assessment and examination

- The Part I and Part II examinations of the FC Clin Pharm(SA) of the Colleges of Medicine of South Africa (CMSA) will constitute your summative assessment. The FC Clin Pharm(SA) Part I examination will assess the Principles of Clinical Pharmacology module and must be completed by the end of your second year of study. The FC Clin Pharm(SA) Part II examination will assess the Applied Clinical Pharmacology module and must be completed by the end of your fourth year of study. If you do not meet these requirements, you must vacate the registrar post and you will be excluded from the rest of the MMed (Clinical Pharmacology) programme. Only in exceptional cases and on submission of an appropriate motivation, will the Postgraduate Programme Committee of the Division consider continuation of your service in a registrar post and further attendance of the programme.
- You must keep and update a portfolio of learning during the course of the study period. It must be approved by the head of the Division for your studies to be regarded as completed.
- You must complete a research assignment which forms part of the final assessment for the MMed programme. The Postgraduate Programme Committee of the Division of Clinical Pharmacology and the relevant Faculty structures must approve the protocol for the research assignment not later than 12 months after you have started with your MMed studies. The research assignment must be completed before taking the FC Clin Pharm(SA) Part II examination of the CMSA.
- Successful completion and assessment of the research assignment is a prerequisite for the degree to be awarded.
- The final MMed mark will be calculated as a weighted average of the marks for each component of the programme content. The weightings will be 25% for the assignment, 25% for the Principles for Clinical Pharmacology module (FC Clin Pharm(SA) Part I examination) and 50% for the Applied Clinical Pharmacology module (FC Clin Pharm(SA) Part II examination).
- You must obtain a final mark of at least 50% for each component of the programme to pass the MMed (Clinical Pharmacology) programme.
- In order to pass the MMed (Clinical Pharmacology) programme *cum laude*, you must obtain a final mark of at least 75% in the final examination.

Enquiries

Programme leader: Prof EH Decloedt

Tel: 021 938 9331 E-mail: ericdecloedt@sun.ac.za

Website: www.sun.ac.za/pharmacology

5.3.1.3. MMed Dermatology

MMed (Derm)

Specific admission requirements

This programme does not have specific admission requirements. The general admission requirements for MMed programmes as mentioned in section 5.3.1 above are applicable.

Duration of programme

The programme extends over four years.

Programme content

Please note that modules run concurrently and not consecutively. All modules are compulsory.

First and second year

Basic Sciences	872(120)
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The module includes all the basic sciences relevant to the practice of Dermatology, e.g. Anatomy, Histology, Physiology and Pathology.

First to fourth year

Clinical Dermatology	873(240)
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First to third year

Research Assignment	828(120)
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Assessment and examination

- Basic Sciences:
 - To complete the module successfully, your attendance must be satisfactory and you must obtain a mark of at least 50% in the FC Derm (SA) Part I examination.
 - You must pass the Part I examination within eighteen months, and preferably within one year, of registration.
 - If you do not meet this requirement, you must vacate the registrar post and you will be excluded from the rest of the MMed (Dermatology) programme.
 - Only in exceptional cases and on submission of an appropriate motivation, will the Postgraduate Programme Committee of the Division of Dermatology consider continuation of your service in a registrar post and further attendance of the programme.
- Clinical Dermatology:
 - To complete the module successfully, your participation must be satisfactory whilst working as a registrar in the Division and you must obtain a mark of at least 50% in the FC Derm (SA) Part II examination.
 - You will be assessed regularly as part of the flexible assessment strategy and you must keep a portfolio of your clinical exposure and experience with procedures.
- Research Assignment:
 - You must have the research protocol registered within one year and complete the research assignment within three years of registration.
 - The research assignment must be submitted in the form of an article ready for publication.
 - You must complete this module before you can take the final FC Derm (SA) Part II examination.
- The final mark for the degree is calculated as follows:
 - Basic Sciences – 25%;
 - Clinical Dermatology – 50%; and
 - Research Assignment – 25%.

Enquiries

Programme leader: Dr WI Visser

Tel: 021 938 5429/9322/9139 E-mail: wvisser@sun.ac.za

5.3.1.4. MMed Emergency Medicine**MMed (Em Med)***Specific admission requirements*

This programme does not have specific admission requirements. The general admission requirements for MMed programmes as mentioned in section 5.3.1 above are applicable.

Duration of programme

The programme extends over four years.

Programme description

The four-year MMed degree in Emergency Medicine is a structured Master's degree with a research assignment component that constitutes 25% of the final mark. The programme is a combined programme offered jointly by Stellenbosch University and the University of Cape Town.

Programme content

Basic Applied Sciences	874(120)
Clinical Emergency Medicine	875(240)
Research Assignment	810(120)

*Assessment and examination***Primary examination**

- The primary examination entails the successful completion of the Part I examination (FCEM (SA) Part I) of the Colleges of Medicine of South Africa within 18 months of first registration.

Final examination

- Entry requirements to the final examination are the successful completion of a research assignment and the Part I examination (FCEM (SA) Part I) of the Colleges of Medicine of South Africa.
- The final examination may only be written following at least 36 months' training in an accredited registrar post.
- The final examination entails the successful completion of the Part II examination (FCEM (SA) Part II) of the Colleges of Medicine of South Africa.
- The successful completion of the research assignment is a prerequisite for entering the FCEM (SA) Part II examination.

Enquiries

Programme leader: Prof Lee A Wallis

Tel: 021 944 9226 E-mail: leew@sun.ac.za

5.3.1.5. MMed Family Medicine**MMed (Fam Med)***Specific admission requirements*

This programme does not have specific admission requirements. The general admission requirements for MMed programmes as mentioned in section 5.3.1 above are applicable.

Duration of programme

The programme extends over four years.

Programme content

You must read the calendar entry for this programme in conjunction with the more comprehensive explanation of the programme regulations that will be provided to you on admission to the programme.

Compulsory web-based modules

Consultation in Family Medicine	811(20)
Evidence-based Medicine	812(20)
Ethics in Family Medicine	843(20)
Family-oriented Family Medicine	815(20)
Principles of Family Medicine	816(20)
Community-oriented Family Medicine	841(20)
Teaching and Learning in Family Medicine	811(20)
Leadership and Clinical Governance	872(20)

Web-based elective modules

Choose two modules from the following table.

Rehabilitation in Family Medicine	815(20)
Geriatrics in Family Medicine	843(20)
Palliative Care in Family Medicine	871(20)
Forensics in Family Medicine	871(20)
Mindfulness - Inside and Out	813(20)
Cancer Care and the Family Practitioner	814(20)

Practical modules

Clinical Family Medicine	871(55), 872(55), 873(50)
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In these three modules practical professional experience applicable to the practice of family medicine is gained under acceptable and approved professional supervision in a training position that has been approved by the University.

Research assignment

Applied Research	814(120)
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Assessment and examination

- You must keep an annual learning portfolio over the four years of the programme. Graduation is subject to the approval of the learning portfolio by the head of the Division of Family Medicine and Primary Care.
- You must complete the research assignment of the University successfully before the MMed (Fam Med) degree is awarded.
- The Health Professions Council of South Africa (HPCSA) requires successful completion of the single national exit examination to register as a specialist. The Division acknowledges this examination as equivalent to and substituting the MMed (Fam Med) final clinical examination.
- It, however, remains the responsibility of the head of the Division to confirm the following before admission to the equivalent final national FCFP (SA) exit examination:
 - For Part A:
 - successful completion of three years of clinical training time;
 - submission of a successfully completed learning portfolio over the duration of the training; and
 - satisfactory completion of flexible assessment.
 - For Part B:
 - Successful completion of a research assignment of the University according to the regulations of the University.

- The final mark for the MMed (Fam Med) degree is derived from the following:
 - the class mark – 50%;
 - the mark for the FCFP (SA) Part A examination – 25%; and
 - the research assignment – 25%.
- You must obtain a final mark of at least 75% for the programme as a whole to pass the MMed (Fam Med) degree programme *cum laude*.
- If you failed an exit examination, you may take a supplementary examination. If you fail a second exit examination, you may, on recommendation by the Faculty Board, be denied the right to qualify for the MMed (Fam Med) degree.
- If you failed a module, you may repeat it. If you fail the module for the second time, you may, on recommendation by the Faculty Board, be denied the right to attempt the module again.
- If you resign as registrar or you are denied continuation of your MMed (Fam Med) studies by the Faculty Board, you will, where applicable, be required to vacate your registrar post.

Enquiries

Programme leader: Dr Ts'epo Motsahi

Programme administrator: Ms N Cordon-Thomas

Tel: 021 938 9168 E-mail: nicolec@sun.ac.za

Website: <http://www.sun.ac.za/fammed/>

5.3.1.6. MMed Internal Medicine

MMed (Int)

Specific admission requirements

This programme does not have specific admission requirements. The general admission requirements for MMed programmes as mentioned in section 5.3.1 above are applicable.

Duration of programme

The programme extends over four years.

Programme content

Please note that modules run concurrently and not consecutively. All modules are compulsory.

First to second year

Basic Medical Sciences	811(96)
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This includes all the basic sciences relevant to the practice of Internal Medicine, e.g. physiology, pathology, pharmacology and principles of ethics.

First to fourth year

Clinical Internal Medicine	811(264)
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First to third year

Research Assignment	833(120)
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Assessment and examination

- Basic Medical Sciences:
 - To successfully complete this module, your attendance must be satisfactory, and you must obtain a 50% test mark in the FCP (SA) Part I examination.
 - You must pass Part I of the examination within eighteen months, and preferably within one year, of registration.
 - If you do not meet this requirement, you must vacate the registrar post and you will be excluded from the rest of the MMed (Internal Medicine) programme.
 - Only in exceptional cases and on submission of an appropriate motivation will the Postgraduate Programme Committee of the Department of Internal Medicine consider continuation of your service in a registrar post and further attendance of the programme.
- Clinical Internal Medicine:
 - To successfully complete this module, your participation must be satisfactory whilst rotating as a registrar in General Internal Medicine and the subspecialties. You must also achieve a mark of at least 50% in the FCP (SA) Part II examination.
 - You will be assessed regularly as part of the flexible assessment strategy and you must keep a log-book as a record of your clinical exposure and experience with procedures.

- You will not be allowed to continue with the programme if:
 - you have failed three or more clinical components of the module;
 - the departmental postgraduate committee has reviewed your overall performance at any stage and has made a recommendation to that effect to the Faculty Board; or
 - you are denied entry to the training platform by the chief executive officer of Tygerberg Hospital prior to completion of your four-year training (e.g. dismissal due to unprofessional conduct).
- Research Assignment:
 - You must have the research protocol registered within one year and complete the research assignment within three years of registration.
 - This should be submitted in the form of an article ready for publication.
 - You must complete this module before you can write the final Part II examination.
- The final mark for the degree is calculated as follows:
 - Basic Medical Sciences – 20%;
 - Clinical Internal Medicine – 55%; and
 - Research Assignment – 25%.

Enquiries

Programme leader: Vacant

Tel: 021 938 9044 E-mail: ma@sun.ac.za

5.3.1.7. MMed Medical Genetics

MMed (Med Gen)

Specific admission requirements

This programme does not have specific admission requirements. The general admission requirements for MMed programmes as mentioned in section 5.3.1 above are applicable.

Duration of programme

The programme extends over four years.

Programme content

Basic Principles of Genetics	871(175)
Applied Medical Genetics	871(175)
Research Methodology	816(10)
Research Assignment	841(120)

Assessment and examination

- For the degree to be awarded, you must:
 - complete the prescribed training period successfully;
 - submit a case-book of practical work and a portfolio of activities during the study period;
 - submit an assignment which is assessed according to University guidelines; and
 - pass the Part I and Part II examinations of the Colleges of Medicine of South Africa.
- You must pass the Part I examination of the Colleges of Medicine of South Africa within 24 months.
- The Part II examination cannot be written before 36 months of the programme have been completed, but you must pass the examination within 48 months.
- If you do not meet these requirements, you will be excluded from the rest of the MMed (Med Gen) programme and you must vacate your registrar post.
- The Part II examination consists of:
 - a written examination;
 - a practical examination;
 - an objective structured clinical examination (OSCE); and
 - an oral examination (to the discretion of the examiner).
- The final mark is calculated as the weighted average of the assignment (25%), the Part I examination (35%) and the Part II examination (40%).
- You must obtain a mark of 50% to pass the degree and a mark of 75% to pass with a distinction.

Enquiries

Programme leader: Dr M Urban

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5.3.1.8. MMed Neurology**MMed (Neurol)***Specific admission requirements*

This programme does not have specific admission requirements. The general admission requirements for MMed programmes as mentioned in section 5.3.1 above are applicable.

Duration of programme

The programme extends over four years.

Programme content

The programme consists of the following modules:

Primary phase

Neuropathology	872(30)
Neuropsychiatry	873(40)
Neuroradiology	871(40)

Final phase

Neurophysiology: EEG	874(60)
Neurophysiology: EMG	875(60)
General Neurology	876(130)
Research Assignment	837(120)

*Assessment and examination***Primary phase**

- You must have the research protocol registered within one year of first registration as an MMed (Neurology) student.
- If you do not meet this requirement, you must vacate the registrar post and you will be excluded from the rest of the MMed (Neurology) programme.
- Only in exceptional cases and on submission of an appropriate motivation will the Postgraduate Programme Committee of the Division of Neurology consider continuation of your service in a registrar post and further attendance of the programme.
- You will not be allowed to continue with the programme if:
 - you have failed two or more modules of the primary phase;
 - the departmental postgraduate committee has reviewed your overall performance at any stage and has made a recommendation to that effect to the Faculty Board; or
 - you are denied entry to the training platform by the chief executive officer of Tygerberg Hospital prior to completion of your four-year training (e.g. dismissal due to unprofessional conduct).

Final phase

- Assessment takes place by means of the final examination of the College of Neurologists of South Africa during the third or fourth year of study.
- The research assignment must be completed within three years of first registration for the MMed (Neurology) programme and must be submitted in the form of an article ready for publication. Successful completion of the research assignment is advisable for admission to the FC Neurol(SA) examination of the Colleges of Medicine of South Africa (CMSA).

Enquiries

Programme leader: Prof J Carr

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5.3.1.9. MMed Neurosurgery**MMed (Neurosurg)***Specific admission requirements*

This programme does not have specific admission requirements. The general admission requirements for MMed programmes as mentioned in section 5.3.1 above are applicable.

Duration of programme

The programme extends over five years.

Programme content

The programme is divided into the following modules:

Primary phase

Neuroanatomy and Applied Regional Anatomy	871(20)
Physiology	872(20)
Anatomical Pathology	873(20)

Intermediate phase

Neurosurgery (Intermediate)	874(30)
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Final phase

Neurosurgery	875(270)
Research Assignment	836(120)

*Assessment and examination***Primary phase**

- Assessment takes place by means of a written examination, and where specified, an oral examination in the basic sciences (as set out under “Primary phase” in the section “Programme content” above) and/or the Primary Examination of the Colleges of Medicine of South Africa (FCS Surgery Part Ia).
- This examination must be completed successfully within 18 months of residency. The successful completion of the examination is an absolute requirement to continue with the programme.

Intermediate phase

- Assessment takes place by means of the surgical intermediate examination of the Faculty of Medicine and Health Sciences and/or the intermediate surgical examination (FCS Surgery Part Ib) of the Colleges of Medicine of South Africa.
- This examination must be completed successfully within three and a half years of residency. The successful completion of the examination is an absolute requirement to continue with the programme.

Final phase

- Assessment takes place by means of the final Neurosurgery examination of the Faculty of Medicine and Health Sciences and/or the Colleges of Medicine of South Africa, to be completed in the fourth or fifth year of study.
- The final Neurosurgery examination of the Faculty of Medicine and Health Sciences consists of:
 - three written papers, including questions on the basic sciences related to neurosurgery, and
 - a clinical oral examination.
- You must submit an assignment to be assessed by both internal and external examiners. The assignment constitutes 25% of the final mark.
- The minimum pass mark for the examination as well as the assignment is 50%.
- If you fail the examination, you may take a re-examination, provided that it takes place in the period indicated above. In certain cases, an extension can be granted by the Faculty of Medicine and Health Sciences, depending on the merits of the case.
- To register as a specialist, you must comply with the provisions of the Health Professions Council of South Africa, namely that you write the specialist examination of the Colleges of Medicine of South Africa as the exit examination.
- The compulsory research component is administered by the Postgraduate Programme Committee of the Division of Neurosurgery.
- It remains the responsibility of the head of the Division to assess the following:
 - successful completion of clinical training time;
 - the candidate’s portfolio of learning (including a surgical log-book);
 - completion of the research assignment according to the University’s regulations; and
 - successful completion of flexible assessment.

Enquiries

Programme leader: Prof AJ Vlok

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5.3.1.10. MMed Nuclear Medicine**MMed (Nuc Med)***Specific admission requirements*

This programme does not have specific admission requirements. The general admission requirements for MMed programmes as mentioned in section 5.3.1 above are applicable.

Duration of programme

The programme extends over four years.

Programme outcomes

On completion of the programme, you must be able to:

- practice Nuclear Medicine according to internationally accepted radiation safety principles;
- select the correct Nuclear Medicine examination or therapeutic procedure for a specific disease process;
- select the correct radiopharmaceutical for the specific procedure or therapy;
- conduct Nuclear Medicine studies and therapy according to internationally accepted standards;
- correctly interpret and report Nuclear Medicine studies; and
- plan, execute, interpret and publish independent research relevant to Nuclear Medicine.

*Programme content***First year (Primary phase)**

Physiology	870(35)
Radiation Physics and Instrumentation	872(60)
Applied Anatomy	873(25)

Second to fourth year (Final phase)

Clinical Nuclear Medicine	883(240)
Research Assignment	834(120)

*Assessment and examination***Primary modules**

- The primary modules are assessed as follows:
 - a written examination; and
 - an oral examination where specified; and/or
 - the Primary Examination of the College of Nuclear Physicians (FCNP Part I) of the Colleges of Medicine of South Africa.
- You must successfully complete these examinations within 18 months after appointment as registrar to continue with the programme.
- Only in exceptional cases and with the submission of a relevant motivation will the Postgraduate Programme Committee of the Division of Nuclear Medicine consider extending the registrar training period.

Final modules

The final modules will be assessed as follows:

- Clinical Nuclear Medicine:
 - Flexible assessment, including evaluation of your academic presentations, an assignment, patient handling and general attitude towards the work;
 - The submission of a portfolio compiled according to the instructions of the College of Nuclear Physicians of the Colleges of Medicine of South Africa; and
 - A formal examination at the end of the training period.
 - The HPCSA requires successful completion of the single national exit examination and the research assignment for registration as a specialist.
 - The Division acknowledges this examination as equivalent to and substituting the MMed (Nuc Med) Part II examination.
 - It, however, remains the responsibility of the head of the Division to confirm the following;
 - successful completion of clinical training time;
 - submission of a completed portfolio;
 - successful completion of the assignment according to the regulations of the University in this regard; and
 - successful completion of flexible assessment.
 - As registrar you are eligible to write the first attempt at the Part II examination after 36 months of commencement of the programme, but not later than 42 months.
 - You must usually vacate the registrar post after four years, irrespective of passing the Part II examination.
 - Only in exceptional cases and on submission of an appropriate motivation will the Postgraduate Programme Committee of the Division consider extending the registrar training period beyond four years.
 - There will be four opportunities to take the Part II examination. The final attempt at the Part II examination must be completed successfully within 54 months. If you are not successful within 54 months, you will have to vacate the registrar post and will be excluded from the rest of the MMed (Nuc Med) programme.

Research assignment

- The research assignment must be completed within three years of registration. It should be submitted in the form of an article ready for publication; and
- Completion of this module is required before you may write the final Part II examination.

Enquiries

Programme leader: Prof J Warwick

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5.3.1.11. MMed Obstetrics and Gynaecology**MMed (O&G)***Specific admission requirements*

This programme does not have specific admission requirements. The general admission requirements for MMed programmes as mentioned in section 5.3.1 above are applicable.

Please also note: If you, as a registrar, are registered for the MMed (O&G) programme elsewhere in the country and have already completed 18 months' training in a numbered training post of the HPCSA, you will only be considered if you have passed the Part I examination of the College of Obstetricians and Gynaecologists.

Duration of programme

The programme extends over four years.

Programme content

The programme consists of four modules to be completed over a period of four years.

Basic Sciences	874(120)
Obstetrics	872(120)
Gynaecology	873(120)
Research Assignment	818(120)

Assessment and examination

- As registered student you must pass the Basic Sciences module before the end of the second year.
- You must pass all remaining modules in the final examination.
- The minimum pass mark is 50%.
- The Part IA examination of the College of Obstetricians and Gynaecologists must be passed within 18 months and the Part IB examination within 30 months of commencement of study.
- The MMed degree will be awarded following successful completion of the Part II examination of the College of Obstetricians and Gynaecologists and the research assignment.

Enquiries

Programme leader: Prof H Botha

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5.3.1.12. MMed Occupational Medicine**MMed (Occ Med)***Specific admission requirements*

This programme does not have specific admission requirements. The general admission requirements for MMed programmes as mentioned in section 5.3.1 above are applicable.

Duration of programme

The programme extends over four years.

Programme content

All modules are compulsory.

Theoretical modules

Environmental Health	872(20)
Epidemiology and Biostatistics	871(60)
Occupational Hygiene	872(20)
Occupational Health Management Systems	871(13)
Occupational Medicine	872(80)
Research Project	873(100)
Social and Behavioural Sciences	871(3)

Practical module

Supervised Practical Exposure	874(184)
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Assessment and examination

- The MMed (Occupational Medicine) examination consists of two parts, namely:
 - the MMed research assignment, with a pass mark of at least 50%; and
 - the examination of the Colleges of Medicine of South Africa (CMSA), Division of Occupational Medicine, with a pass mark of at least 50% (weighted average). Details of the examination of the CMSA, Division of Occupational Medicine are available on the website of the CMSA, College of Public Health Medicine at <http://www.collegemedsa.ac.za/>.
- To gain entry to the CMSA examination you must, at registration for the examination:
 - have obtained a minimum average final mark of 50% for the MMed research assignment (as evaluated by one internal and one external examiner);
 - hand in the short research report as required by the CMSA, Division of Occupational Medicine; and
 - have been registered with the HPCSA for at least three years in an HPCSA-approved training post number.
- Flexible assessment of your progress is to be done by means of module assessments, as well as six-monthly progress reports as prescribed by the CMSA. On identification of inadequate progress, remedial steps will be implemented. Continuation of inadequate academic progress will result in you having to vacate the registrar training post.
- You must complete at least four years of training time within a registrar training post and in an HPCSA-approved training post number. If you have not successfully completed the examination of the CMSA, Division of Occupational Medicine, after four years of training time, an extension in training time and continuation of employment in a registrar post will only be considered on grounds of your written request with valid reasons to the Postgraduate Programme Committee of the Division of Health Systems and Public Health.

Enquiries

Programme leader: Dr SE Carstens

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5.3.1.13. MMed Ophthalmology**MMed (Ophth)***Specific admission requirements*

The following specific admission requirements apply in addition to the general admission requirements for MMed programmes as mentioned in section 5.3.1 above:

- Recognition is given for previous training in that admission preference is given to candidates who have already completed the Primary Examination (Part I) of the College of Ophthalmologists of the Colleges of Medicine of South Africa (or equivalent).
- If you have completed the Diploma in Ophthalmology of the same colleges, you will benefit in the same manner.

Duration of programme

The programme extends over four years.

Programme description

During the first 24 months the focus of the programme will be on the mastery of the basic subjects forming the foundation of the specialty, i.e. head and neck anatomy, ophthalmic and applied general physiology, optics and pathology. Mastery of the advanced theory and its application to ophthalmology, as well as a comprehensive and specialised knowledge of general ophthalmology, advanced technical and procedural skills, familiarity with the literature and state of research on the subject of the specialty, will be the focus of the following 24 months of training. During the final year of study you must demonstrate a capacity for independent study and research by completing a research report or publication on a research topic of your choice in ophthalmology.

*Programme content***First and second year***Part I (Primary)*

All modules are compulsory. Full accreditation will be granted for these modules if you successfully complete the Part I (A and B) examinations of the College of Ophthalmologists of the Colleges of Medicine of South Africa.

Optics	874(40)
Anatomy	874(40)
Physiology for Ophthalmology	871(40)
Pathology for Ophthalmology	876(40)

Third and fourth year

Part II (Final)

Full accreditation will be granted for the Clinical Ophthalmology module if you successfully complete the Part II examination of the College of Ophthalmologists of the Colleges of Medicine of South Africa.

Clinical Ophthalmology	875(200)
Research Assignment	824(120)

Assessment and examination

- The HPCSA requires that you successfully complete the single national exit examination of the Colleges of Medicine of South Africa to register as a specialist.
- The Division of Ophthalmology accepts the Part I (A and B) and the Part II examinations of the College of Ophthalmologists as equivalent to and in place of the MMed (Ophth) examination.
- The HPCSA also requires the head of the discipline to confirm the following:
 - successful completion of clinical training time;
 - completion of portfolio of learning;
 - successful completion of the research assignment according to the regulations of the University; and
 - successful completion of flexible assessment.
- The final mark for the MMed degree is a composite mark of the result of the final examination of the College of Ophthalmologists and the mark for the research assignment in a ratio of 75:25.
- You must pass all four Part I modules within 24 months of first registration as a registrar in Ophthalmology.
- If you do not meet this requirement, you will be unable to continue with the MMed (Ophth) programme and you must vacate the registrar training post.
- Continuation of the programme and the registrar appointment may be considered by the Postgraduate Programme Committee of the Division only in exceptional circumstances and on submission of an applicable motivation.
- As a registrar you may attempt the Part II examination for the first time after having completed a minimum of 36 months of residency in a registrar post.
- But the registrar post must be vacated after 48 months.
- In exceptional cases and on submission of an applicable motivation, the Postgraduate Programme Committee of the Division may consider an extension of a maximum training period of 12 months. You must successfully complete the final examination within these 12 months, or you will be excluded from the MMed (Ophth) programme.

Enquiries

Programme leader: Prof David Meyer

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5.3.1.14. MMed Orthopaedics

MMed (Orthop)

Specific admission requirements

The following specific admission requirements apply in addition to the general admission requirements for MMed programmes as mentioned in section 5.3.1 above:

- Recommendations for appointment of registrars include the following:
 - successful completion of the primary examination of the College of Orthopaedic Surgeons of the Colleges of Medicine of South Africa (CMSA) (FC Orth(SA) Primary);
 - at least 18 months' experience in Orthopaedics under supervision of a specialist, after completion of community service;
 - appropriate diplomas, for instance Advanced Trauma Life Support (ATLS) and Basic Surgical Principles; and
 - a basic research project on an orthopaedic topic and/or a Diploma in Orthopaedics.

Duration of programme

The programme extends over five years.

Programme content

Anatomical Pathology	874(25)
Anatomy	875(25)
Physiology	874(25)
Orthopaedic Surgery (Intermediate)	871(100)
Orthopaedic Surgery	873(185)
Research Assignment	825(120)

*Assessment and examination***Primary**

- A written paper and an oral examination for the Anatomical Pathology 874 module.
- Examinations for the Anatomy 875 and Physiology 874 modules are conducted by the College of Orthopaedic Surgeons of the CMSA (FC Orth(SA) Primary).
- You must obtain a mark of at least 50% to pass a module and 75% to pass a module with distinction.
- You must pass all three modules (Anatomical Pathology 874, Anatomy 875 and Physiology 874) either before registration for the MMed (Orthop) programme or within 12 months of registration.
- If you do not meet this requirement, you may be excluded from the rest of the MMed (Orthop) programme.
- Only in exceptional cases, and with the submission of an appropriate motivation, will the Postgraduate Programme Committee of the Division of Orthopaedics consider continuation of your service in a registrar post and further attendance of the programme.

Intermediate

- A written paper and an oral examination for the Pathology component of the Orthopaedic Surgery (Intermediate) module.
- The examination for the Orthopaedic Surgery (Intermediate) 871 module is conducted by the College of Orthopaedic Surgeons of the CMSA (FC Orth(SA) Intermediate).
- You must obtain a mark of at least 50% to pass the module and 75% to pass the module with distinction.
- You must pass the intermediate examination within 30 months of registration as a registrar in Orthopaedics.
- If you do not meet this requirement, you may be excluded from the rest of the MMed (Orthop) programme.
- Only in exceptional cases, and with the submission of an appropriate motivation, will the Postgraduate Programme Committee of the Division consider continuation of your service in a registrar post and further attendance of the programme.

Final examination

- The Health Professions Council of South Africa (HPCSA) requires that you successfully complete the national exit examination of the College of Orthopaedic Surgeons of the CMSA to register as a specialist.
- The Division accepts this examination as equivalent to and in place of the MMed (Orthop) final examination.
- It, however, remains the responsibility of the head of the Division to confirm the following:
 - successful completion of clinical training time;
 - completion of a comprehensive logbook;
 - successful completion of the research assignment according to the regulations of the University in this regard; and
 - successful completion of the flexible assessment programme.
- For admission to the single national exit examination of the College of Orthopaedic Surgeons of the CMSA, you must have successfully completed the following:
 - the primary examination of the College of Orthopaedic Surgeons of the CMSA; and
 - the intermediate examination of the College of Orthopaedic Surgeons of the CMSA.
- The minimum pass mark for the final examination is 50%, and you must obtain 75% to pass the examination with distinction.
- You must successfully complete the final examination within 60 months of registration as a registrar in Orthopaedics. If you do not meet this requirement, you must vacate the registrar post.
- Only in exceptional cases, and with the submission of an appropriate motivation, will the Postgraduate Programme Committee of the Division consider continuation of your service in a registrar post and further attendance of the programme.

Research assignment

- You must complete an assignment as a study project that forms part of the final assessment for the MMed (Orthop) degree.
- The protocol for the assignment must be approved by the Postgraduate Programme Committee of the Division and the relevant faculty structures not later than 18 months after commencement of service as a registrar.
- The assignment must be successfully completed not later than 48 months after commencement of service as a registrar.
- The assignment is assessed and approved by both internal and external examiners.
- You must obtain a mark of at least 50% to pass the assignment, and at least 75% to pass with distinction.

Exit criteria

- The final mark for the MMed (Orthop) programme is calculated as the average of the marks for the respective modules, the assignment and the final examination.
- You must achieve a final mark of at least 50% to obtain the MMed (Orthop) degree, and at least 75% to pass the degree with distinction.

Enquiries

Programme leader: Prof N Ferreira

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5.3.1.15. MMed Otorhinolaryngology**MMed (ORL)***Specific admission requirements*

This programme does not have specific admission requirements. The general admission requirements for MMed programmes as mentioned in section 5.3.1 above are applicable.

Duration of programme

The programme extends over four years.

*Programme content***Part I (Primary)**

Anatomy	873(33)
Physiology	871(33)
Anatomical Pathology	872(34)

Part II (Intermediate)

Otorhinolaryngology	871(100)
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Part III (Final)

Otorhinolaryngology	871(160)
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Assignment

Research Assignment	823(120)
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Assessment and examination

- The Part III (final) examination consists of the following:
 - Written examination of two three-hour papers of three questions each. Each question consists of three parts.
 - Clinical examination of one-hour based on the assessment of patients.
 - A half-hour *viva voce*/OSCE examination on prepared material for examination provided to you.
- The HPCSA requires that you successfully complete the single national exit examination to register as a specialist.
- The Division of Otorhinolaryngology acknowledges this examination as equivalent to and substituting the MMed (ORL) Part II examination.
- It, however, remains the responsibility of the head of the Division to confirm the following:
 - successful completion of clinical training time;
 - submission of a completed case-book;
 - successful completion of an assignment according to the regulations of the University in this regard; and
 - successful completion of flexible assessment.

Enquiries

Programme leader: Prof JW Loock

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5.3.1.16. MMed Paediatrics and Child Health**MMed (Paed)***Specific admission requirements*

The general admission requirements for MMed programmes as mentioned in section 5.3.1 above are applicable.

International candidates must:

- hold an MBChB degree or equivalent qualification;
- have at least two years' experience in clinical medicine after having obtained this qualification; and
- register with the Health Professions Council of South Africa as medical practitioner in the category postgraduate study.

Duration of programme

The programme extends over four years.

Programme description

The MMed programme in Paediatrics and Child Health consists of training in General Paediatrics and its subspecialties. You must:

- successfully complete the prescribed training period;
- pass the MMed Part I and II examinations of the University, or the FCPaed Part I and Part II examinations of the College of Paediatricians of South Africa; and
- complete a research assignment.

The curriculum covers, among others, the following:

- general paediatrics;
- ambulatory paediatrics;
- neonatology;
- paediatric intensive care;
- neonatal intensive care;
- cardiology;
- pulmonology;
- gastroenterology;
- neurology;
- neurodevelopmental paediatrics;
- nephrology;
- endocrinology;
- infectious diseases;
- haematology;
- oncology;
- immunology; and
- allergy.

Programme content

Research Methodology (Paediatrics)	871(20)
Specialist Paediatrics	871(240)
Applied Basic Sciences	871(100)
Research Assignment	813(120)

Assessment and examination

- To be awarded the MMed (Paediatrics) degree it is sufficient if you pass the Part I and II examinations of the Colleges of Medicine of South Africa (CMSA) with the additional completion of the research assignment.
- The following applies if you write the MMed examination and/or the examination of the CMSA:
 - You must pass the Part I examination preferably within 12 months, but definitely within 18 months.
 - The Part II examination may not be taken before having completed 36 months of the programme, but must be passed within 48 months.
 - Admission to the Part II examination is subject to satisfactory progress with your research project (preferably protocol development, ethical approval, data collection and completion of the assignment).
 - The research project must illustrate your proficiency in the following:
 - the ability to plan a research project;
 - the ability to perform a literature study appropriate to the research project;
 - the ability to complete a research project; and
 - the ability to report the research, preferably in the format of an article suitable for publication.
 - If you do not pass the Part I examination within the maximum period of 18 months, the Programme Committee may recommend that you discontinue your studies. The Programme Committee may also recommend that you discontinue your studies if the Part II examination and the research assignment have not been successfully completed within the maximum training period of four years.

Continuation of studies

- If you do not comply with the promotion requirements for the MMed programme, and you are denied the right to continue with your MMed studies, you will have to vacate your registrar post in service of the Western Cape Provincial Department of Health or the National Health Laboratory Services. This regulation also applies if you are a registrar in a supernumerary post.
- Only in exceptional cases, and with the submission of an appropriate motivation and the approval of the departmental programme committee, and the Committee for Postgraduate Education and the Faculty Board of the Faculty of Medicine and Health Sciences, may you register as an MMed student again.

Enquiries

Programme leader: Prof M Kruger

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5.3.1.17. MMed Paediatric Surgery**MMed (Paed Surg)***Specific admission requirements*

This programme does not have specific admission requirements. The general admission requirements for MMed programmes as mentioned in section 5.3.1 above are applicable.

Duration of programme

The programme extends over four years.

Programme content

Paediatric Surgery (Primary)	871(80)
Paediatric Surgery (Intermediate)	871(100)
Paediatric Surgery (Final)	871(170)
Research Methodology	881(10)
Research Assignment	830(120)

*Assessment and examination***Primary phase**

- Assessment takes place by means of the primary examination of the Faculty of Medicine and Health Sciences or the Colleges of Medicine of South Africa.
- The examination consists of two multiple choice question papers.

Intermediate phase

- Assessment takes place by means of the intermediate examination of the Faculty of Medicine and Health Sciences or the Colleges of Medicine of South Africa.
- The examination consists of:
 - two three-hour question papers (general principles and application of paediatric surgical principles in clinical practice); and
 - an oral examination.

Final phase

- Assessment takes place by means of the final examination of the Faculty of Medicine and Health Sciences or the Colleges of Medicine of South Africa.
- The examination consists of:
 - two three-hour question papers (general principles and application of paediatric surgical principles in clinical practice);
 - an oral examination with a clinical component (clinical cases); and
 - a non-clinical component (OSCE with 10 to 15 stations).

Research methodology

- Assessment takes place by means of a written examination to test core competencies.

Assignment

- The written research assignment is assessed according to University guidelines through a process of internal and external examination.
- The HPCSA requires that you successfully complete the single national exit examination to register as a specialist.
- The Division of Paediatric Surgery acknowledges this examination as equivalent to and substituting the MMed (Paed Surg) Part II examination.
- It, however, remains the responsibility of the head of the Division to confirm the following:
 - successful completion of clinical training time;
 - submission of a completed case-book;
 - successful completion of the assignment according to the regulations of the University in this regard; and
 - successful completion of flexible assessment.

Enquiries

Programme leader: Prof B Banieghbal

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5.3.1.18. MMed Anatomical Pathology

MMed (Anat Path)

Specific admission requirements

In addition to the general admission requirements for MMed programmes outlined in section 5.3.1.1 of the “General admission and selection requirements for the MMed programmes”, the following recommendations apply:

- Completion of the Pathology for non-Pathology disciplines module prior to application.
- For self-funded registrars:
 - Evidence of competence in academic English (e.g. IELTS – band 7).

Duration of programme

The programme extends over five years.

Programme description

The programme comprises various components including:

- Applied Histology
- Cytopathology
- Good Laboratory Practice and Medical Ethics
- Laboratory Management
- Molecular Pathology
- Neuropathology
- Autopsy Techniques and Principles of Forensic Medicine
- Research Methodology
- Research Assignment

The programme includes six months’ training in all aspects of cytopathology, comprehensive training in diagnostic surgical pathology, and the execution of autopsies. The academic training follows a structured didactic programme with regular formal assessments. The completion of a research assignment is compulsory to obtain the MMed degree.

Programme content

All modules are compulsory.

Anatomical Pathology Part I	874(120)
Anatomical Pathology Part II	872(240)
Research Assignment	873(120)

Assessment and examination

Part I

- This examination comprises the FC Path(SA) Anat Part I examination as stipulated in the regulations for admission to the Fellowship of the College of Pathologists of South Africa in Anatomical Pathology.
- You must pass the Part I examination within 24 months of commencement of service as registrar in Anatomical Pathology. If you fail to pass the Part I examination within 24 months, you will be excluded from further participation in the programme.
- In the event of exceptional circumstances and in response to an appropriate motivation, the Postgraduate Programme Committee of Anatomical Pathology will consider a recommendation to extend your training time on condition that you pass the Part I examination at the next opportunity. A final decision will rest with the Committee for Postgraduate Teaching of the Faculty of Medicine and Health Sciences and be in keeping with NHLS policy.

Part II

- This examination comprises the FC Path(SA) Anat Part II examination as stipulated in the regulations for admission to the Fellowship of the College of Pathologists of South Africa in Anatomical Pathology.
- You may be admitted to the Part II examination having:
 - completed the FC Path(SA) Anat Part I examination;
 - completed at least three and a half years’ training as an Anatomical Pathology registrar, including at least six months’ full-time training in cytopathology;
 - achieved all the outcomes as indicated in the training portfolio of the College of Pathologists of South Africa in Anatomical Pathology; and
 - achieved all the outcomes as indicated in the relevant MMed (Anat Path) study guide, including completion of all the required components, satisfactory performance in the flexible assessments during the training period, and significant progress with the research assignment at the time of applying for admission to the examination.

Research assignment

You must pass the research assignment according to the regulations of Stellenbosch University before the MMed degree is awarded.

Final mark

The final mark is calculated as follows:

- MMed assignment – 25%; and
- FC Path(SA) Anat Part II examination – 75%.

Enquiries

Programme leader: Prof JW Schneider

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5.3.1.19. MMed Chemical Pathology**MMed (Chem Path)***Specific admission requirements*

The following specific admission requirement applies in addition to the general admission requirements for MMed programmes as mentioned in section 5.3.1 above:

- For potential self-funded registrars:
 - Official evidence of competence in academic English (e.g. IELTS band 7).

Duration of programme

The programme extends over four years.

*Programme content***First year**

Basic Principles of Chemical Pathology and Basic Biochemistry (FC Path(SA) Chem Part I)	871(60)
Molecular Pathology	875(10)

Second and third year*Section I*

Electrolytes, blood gases, liver functions and lipids	811(65)
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Section II

Enzymes, proteins, tumour markers and inherited metabolic diseases	843(65)
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Section III

Endocrinology	872(65)
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Section IV

Nutrition and trace elements, toxicology and immunology	875(65)
Laboratory Management	875(10)
Research Methodology	873(10)
Good Laboratory Practice and Medical Ethics	875(10)
Research Assignment	876(120)

*Assessment and examination***Part I**

- As a registrar you will only have two opportunities to attempt the FC Path(SA) Chem Part I examination.
- You may attempt the first opportunity after 12 months of commencement of the programme, but not later than 18 months.
- If you have not successfully completed the Part I examination within 24 months of commencement of the programme, you will be excluded from the rest of the programme.

Part II

- The HPCSA requires that you successfully complete the single national exit examination to register as a specialist.
- The Division of Chemical Pathology acknowledges the FC Path(SA) Chem examination as equivalent to and substituting the MMed (Chem Path) Part II examination.
- It, however, remains the responsibility of the head of the Division to confirm the following:
 - successful completion of laboratory training time;
 - submission of a completed portfolio of evidence;
 - successful completion of the assignment (MMed research project) according to the regulations of the University in this regard; and

- successful completion of flexible assessment.
- To be admitted to the FC Path(SA) Chem Part II examination you must achieve a pass mark of 50% in flexible assessment in each of the four sections (only two attempts per section will be allowed), and the assignment must be submitted for assessment. See the study guide for more details in this regard.
- If you have not successfully completed the flexible assessment by the end of the eighth semester, you will be excluded from the rest of the programme.
- There are three opportunities to write the FC Path(SA) Chem Part II examination.
- You must attempt the first opportunity at the FC Path(SA) Chem Part II examination not later than 48 months after commencement of the programme. However, you may write the examination at an earlier stage if you meet the requirements of the College of Pathologists.
- The MMed (Chem Path) Programme Committee may recommend that you be excluded from further attendance of the programme if you do not attempt the FC Path(SA) Chem Part II examination within 48 months.
- If you have not successfully completed the FC Path(SA) Chem Part II examination and the assignment within the maximum training period of five years of study, you may be excluded from attendance of the rest of the programme.

Assignment

- The assignment must be presented in the prescribed format and be approved by internal and external examiners.
- The final mark is 100 (weight = 120 credits).

Final mark

- The Part II examination will contribute 75% to the final mark and the assignment 25%.
- You must submit a portfolio of evidence as part of flexible assessment before the degree can be awarded.

Enquiries

Programme leader: Prof AE Zemlin

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5.3.1.20. MMed Clinical Pathology

MMed (Clin Path)

Specific admission requirements

This programme does not have specific admission requirements. The general admission requirements for MMed programmes as mentioned in section 5.3.1 above are applicable.

Duration of programme

The programme extends over five years.

Programme content

First seven semesters

Chemical Pathology	872(70)
Haematology	873(70)
Medical Microbiology	874(70)
Medical Virology	871(70)
Molecular Pathology	875(10)
Research Methodology	873(10)

Final three semesters

Integrated Pathology	871(60)
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Assignment

Choose one of the following assignments.

Assignment (Chemical Pathology)	811(120)
Assignment (Haematological Pathology)	811(120)
Assignment (Medical Microbiology)	811(120)
Assignment (Medical Virology)	811(120)

Assessment and examination

- Written papers and practical and oral examinations must be passed at the end of each module.
- If you do not pass two modules within a maximum period of three years, the Programme Committee may recommend that you suspend your studies.
- You must submit a portfolio of evidence as part of flexible assessment before you gain for admission to the assessment of the compulsory Integrated Pathology module or the Part II examination of the College of Pathology.
- Details of flexible assessment are provided in the study guide.

- The assignment must be completed and submitted for assessment before you will be admitted to the Part II examination of the Colleges of Medicine of South Africa.
- The HPCSA requires that you successfully complete the single exit examination to register as a specialist.
- The Division of Medical Microbiology acknowledges this examination as equivalent to and substituting the MMed (Clin Path) Part II examination.
- It, however, remains the responsibility of the head of the Division to confirm the following:
 - successful completion of clinical training time;
 - successful completion of the assignment according to the regulations of the University in this regard;
 - submission of a complete portfolio of evidence; and
 - continuous assessment.

Enquiries

Programme leader	Division	E-mail	Telephone
Prof AC Whitelaw (programme convenor)	Medical Microbiology	awhitelaw@sun.ac.za	021 938 4032
Dr Z Chapanduka	Haematology	zivanai@sun.ac.za	021 938 4608
Prof AE Zemlin	Chemical Pathology	azemlin@sun.ac.za	021 938 4107
Prof W Preiser	Medical Virology	preiser@sun.ac.za	021 938 9354

5.3.1.21. MMed Forensic Pathology

MMed (Forens Path)

Specific admission requirements

The following specific admission requirement applies in addition to the general admission requirements for MMed programmes as mentioned in section 5.3.1 above:

- The Diploma in Forensic Pathology (Dip For Med (SA) Path) of the Colleges of Medicine of South Africa is strongly recommended.

Duration of programme

The programme extends over four years.

Programme content

Applied Histology for Forensic Pathology	876(20) *
Forensic Pathology	872(80), 873(220)
Good Laboratory Practice and Medical Ethics	825(10) *
Laboratory Management	875(10) *
Molecular Pathology	875(10) *
Research Methodology	873(10) *
Research Assignment	827(120)

* Generic pathology modules

It is strongly recommended that you:

- complete the module in Applied Histology for Forensic Pathology before attempting the Forensic Pathology Part I module; and
- complete the Research Methodology module before starting the MMed assignment.

Assessment and examination

- All modules offered by the Division of Forensic Pathology are assessed by means of:
 - written papers; and/or
 - oral examinations; and/or
 - microscopic/macrosopic pathology practical assessments; and
 - flexible assessment.
- Admission to the Forensic Pathology Part II examination will only be granted if you have successfully completed all the modules. The examination consists of:
 - two written papers;
 - a medico-legal autopsy;
 - a histopathology examination; and
 - an oral examination.
- Police docket evaluation may be expected at the discretion of the examiners.
- The assignment must be presented as a research assignment in a prescribed format, and will be assessed by both internal and external examiners.

- The final mark will be calculated as follows:
 - the Forensic Pathology Part II examination – 65%;
 - the assignment – 25%; and
 - the flexible assessment – 10%.
- You must submit a portfolio of evidence of learning, including a record of procedures and activities (log-book), as part of the flexible assessment before the degree can be awarded. Details of flexible assessment are provided in the study guide.
- The HPCSA requires that you successfully complete the single national exit examination to register as a specialist.
- The Division acknowledges the single national exit examination as equivalent to and substituting the MMed (Forens Path) Part II examination.
- It, however, remains the responsibility of the Division to confirm the following:
 - successful completion of appropriate training time;
 - submission of a portfolio of evidence of learning, including a log-book of procedures and activities, as part of flexible assessment; and
 - successful completion of an assignment according to the regulations of the University.

Enquiries

Programme leader: Prof J Dempers

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5.3.1.22. MMed Haematological Pathology

MMed (Haem Path)

Specific admission requirements

This programme does not have specific admission requirements. The general admission requirements for MMed programmes as mentioned in section 5.3.1 above are applicable.

Duration of programme

The programme extends over four years.

Programme content

First and second year

Haematological Pathophysiology	875(45)
Immunology	875(25)
Molecular Pathology	875(10)
Research Methodology	873(10)

Second to fourth year

Blood Transfusion	812(60)
Haematological Pathology Part II	871(190)
Laboratory Management	875(10)
Good Laboratory Practice and Medical Ethics	875(10)
Research Assignment	829(120)

Assessment and examination

- Assessment takes place according to the specifications of the College of Pathologists of South Africa.
- The first assessment is done by means of two written papers, which must be passed within the first 24 months.
- The second assessment is done by means of two written papers:
 - the first on haematological pathology and blood transfusion; and
 - the second on practical aspects of the main modules, good laboratory practice and laboratory management.
- Each paper counts 100 marks.
- Practical examinations cover blood transfusion practice, laboratory haematology, diagnostic microscopy of blood and bone marrow pathology and clinical cases.
- An oral examination is also conducted.
- You must pass each part of the assessment with a subminimum mark of 50%.
- The assignment must be presented in a prescribed format as a research paper, and will be assessed by both internal and external examiners.
- You must also submit a portfolio of evidence as part of flexible assessment before the degree can be awarded. Details of flexible assessment are provided in the study guide.
- The HPCSA requires that you successfully complete the single national exit examination to register as a specialist.
- The Division of Haematological Pathology acknowledges this examination as equivalent to and substituting the MMed (Haem Path) Part II examination.

- It, however, remains the responsibility of the head of the Division to confirm the following:
 - successful completion of clinical training time;
 - submission of a completed case-book;
 - successful completion of the assignment according to the regulations of the University in this regard; and
 - successful completion of flexible assessment.

Enquiries

Programme leader: Dr Z Chapanduka

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5.3.1.23. MMed Microbiological Pathology

MMed (Microbiol Path)

Specific admission requirements

This programme does not have specific admission requirements. The general admission requirements for MMed programmes as mentioned in section 5.3.1 above (under the heading “General admission and selection requirements for the MMed programmes”) are applicable.

Duration of programme

The programme extends over five years.

Programme content

Good Laboratory Practice and Medical Ethics (attendance module)	875(10)
Immunology (two month rotation)	876(40)
Infection Control, Sterilisation and Decontamination	874(40)
Infective Organisms and Infectious Diseases	872(100)
Laboratory Diagnosis of Bacteria, Fungi and Parasites	871(100)
Laboratory Management (attendance module)	875(10)
Medical Virology (six month rotation)	875(40)
Molecular Pathology (attendance module)	875(10)
Research Assignment	835(120)
Research Methodology (attendance module)	873(10)

Assessment and examination

- Continuous assessment is based on the regular evaluation of a portfolio of evidence that you have to present to the supervisor along with regular feedback (formative) assessments (written and practical).
- The written examination for Part I may be taken after a minimum of 12 months into the programme, and must be passed with a minimum of 50%.
- If you fail to pass the Part I examination after two attempts within a time period of 24 months into the programme, the Postgraduate Programme Committee of the Division may recommend that you suspend your studies. You may, however, apply to the Programme Committee for permission to undertake a third attempt. If the third attempt is also unsuccessful, you will not be permitted to continue with your studies.
- Admission to the Part II examination of the College of Pathologists requires prior permission by the head of the Division of Medical Microbiology in consultation with the Programme Committee. You must submit the research assignment before you can attempt the Part II examination.
- The HPCSA requires that you successfully complete the single exit examination to register as a specialist. The Division of Medical Microbiology acknowledges this examination as equivalent to and substituting the MMed (Microbiol Path) Part II examination. It, however, remains the responsibility of the head of the Division to confirm the following:
 - the successful completion of the clinical training time;
 - the successful completion of the assignment according to the regulations of the University in this regard and the Part I examination;
 - the submission of a completed portfolio of evidence.
- The first attempt at the Part II examination must be undertaken not later than 54 months after commencement of the programme. The examination may be attempted earlier subject to the requirements of the College of Pathologists. If you have not yet attempted the Part II examination by 54 months, the Programme Committee may recommend that you suspend your studies.
- The Programme Committee may also recommend that you suspend your studies after three failed Part II examination attempts.
- If you have failed to complete the Part II examination and the research assignment successfully within a maximum training period of five years, the Programme Committee may recommend that you suspend your studies. You may, however, apply to the Programme Committee to be allowed to continue beyond five years.

- As a registrar you must usually vacate your registrar post after five years, irrespective of passing the Part II examination. An extension of the registrar contract beyond five years may be considered by the NHLS authorities, on your request and motivation.

Research Assignment

- The assignment must be on a relevant Medical Microbiology topic of your choice. You must display your ability to conduct independent research by means of the assignment. The assignment must be completed in a standard format according to University regulations, and to the satisfaction of an internal and an unattached external examiner.

Final mark

- The Part II examination must be passed with a minimum of 50% and contributes 65% to the final mark.
- Flexible assessment contributes 10% to the final mark.
- The assignment must be passed with a minimum of 50% and contributes 25% to the final mark.

Enquiries

Programme leader: Prof A Whitelaw

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5.3.1.24. MMed Virological Pathology

MMed (Virol Path)

Specific admission requirements

This programme does not have specific admission requirements. The general admission requirements for MMed programmes as mentioned in section 5.3.1 above are applicable.

Duration of programme

The programme extends over four years.

Programme content

The first six modules below entail mainly teaching, while the seventh module consists of research.

Good Laboratory Practice and Medical Ethics	874(10) *
Laboratory Management	875(10) *
Medical Microbiology	875(40)
Medical Virology	876(280)
Molecular Pathology	875(10)
Research Assignment	819(120)
Research Methodology	813(10) *

* Generic Pathology modules

Assessment and examination

- You must complete the three generic pathology modules and the Molecular Pathology module within the first 24 months of training and submit proof of satisfactory attendance or successful completion of the respective module assessments as applicable. The programme includes a four-month rotation through Medical Microbiology and Immunology.
- A Part I examination must be completed successfully within 18 months of commencement of the programme. If you fail to complete the Part I examination successfully within 18 months, you will be advised to discontinue the programme.
- The Part II examination is a single national exit examination of the Colleges of Medicine of South Africa (College of Pathologists) and consists of a theoretical, a practical and an oral examination. Prerequisites for admission to the Part II examination are the successful completion of the Part I examination and a minimum of 42 months' experience as a registrar in Medical Virology, of which you have spend at least three months in Medical Microbiology or Immunology.
- The minimum pass mark for the Part I and II examinations is 50%.
- The prerequisites for graduation are the completion of four years of study and the successful completion of the Part I and Part II examinations and the assignment. You must submit a portfolio of evidence as part of flexible assessment before the degree can be awarded.
- If you fail to successfully complete the Part II examination and the research assignment within a maximum training period of five years, you will be advised to discontinue the programme.
- The HPCSA requires that you successfully complete the single exit examination to register as a specialist.
- The Division of Medical Virology acknowledges this examination as equivalent to and substituting the MMed (Virol Path) Part II examination.
- It, however, remains the responsibility of the head of the Division to confirm the following:
 - successful completion of the clinical training time;
 - successful completion of the research assignment according to the regulations of the University in this regard;

- successful completion of the Part I examination; and
- submission of a completed portfolio of evidence.

Enquiries

Programme leader: Prof G van Zyl

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5.3.1.25. MMed Plastic and Reconstructive Surgery**MMed (Plast and Recons)***Specific admission requirements*

This programme does not have specific admission requirements. The general admission requirements for MMed programmes as mentioned in section 5.3.1 above are applicable.

Duration of programme

The programme extends over five years.

Programme content

Anatomy	876(33)
Anatomical Pathology	875(34)
Physiology	875(33)
Plastic and Reconstructive Surgery (Intermediate)	871(100)
Plastic and Reconstructive Surgery	871(160)
Research Assignment	826(120)

Assessment and examination

- The Part I written examination is conducted within 18 months, and must be passed with a minimum of 50%.
- The intermediate examination is completed in writing and orally, and must be passed with a minimum of 50% within three and a half years.
- The MMed Part II examination consists of a written, practical and oral examination, which must be passed with a subminimum of 50%.
- The research project counts 25% of the total credits and must cover a relevant topic in Plastic and Reconstructive Surgery in a discipline of your choice. You must display your ability to conduct independent research by means of the assignment. The report must be completed in a standard format to the satisfaction of an internal and an unattached external examiner.
- The HPCSA requires that you successfully complete the single national exit examination to register as a specialist.
- The Division of Plastic and Reconstructive Surgery acknowledges this examination as equivalent to and substituting the MMed (Plast and Recons) Part II examination.
- It, however, remains the responsibility of the head of the Division to confirm the following:
 - successful completion of clinical training time;
 - submission of a completed case-book;
 - successful completion of the assignment according to the regulations of the University in this regard; and
 - successful completion of flexible assessment.

Enquiries

Programme leader: Dr A Zuhlke

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5.3.1.26. MMed Psychiatry**MMed (Psych)***Specific admission requirements*

This programme does not have specific admission requirements. The general admission requirements for MMed programmes as mentioned in section 5.3.1 above are applicable.

Duration of programme

The programme extends over four years.

Programme content

Neuroanatomy	875(30)
Neurophysiology	875(30)
Special Psychology	875(30)
Psychiatry	872(270)
Research Assignment	815(120)

*Assessment and examination***Part I**

- You must complete Part I of the programme within 18 months of commencement of studies.
- Assessment is done in the form of the Part I examination (FC Psych(SA) Part I) of the Colleges of Medicine of South Africa (CMSA) as stipulated in the regulations for admission to the Fellowship of the College of Psychiatrists of South Africa.
- If you fail to successfully complete Part I of the programme within 18 months, you must suspend your studies and vacate your registrar post.
- Only in exceptional cases, and with the submission of an appropriate motivation, will the Postgraduate Programme Committee of the Department of Psychiatry consider continuation of your service in a registrar post and further attendance of the programme.

Part II

- You must have completed Part I before attempting Part II.
- You must also complete the course work, portfolio and research project before attempting the Part II final examination of the College or Psychiatrists of the Colleges of Medicine of South Africa.
- The final mark for the programme is calculated as follows:
 - 18.75% for the Part I examination;
 - 56.25% for the Part II examination; and
 - 25% for the research assignment which must be submitted as a manuscript for publication.
- You must achieve a pass mark in both the Part II examination and the assignment to qualify for the MMed degree and to register as a specialist with the Health Professions Council of South Africa (HPCSA).
- The research assignment is examined by internal and external examiners and you have to obtain at least 50% for it to pass.
- The HPCSA also requires the head of the discipline to confirm the following:
 - the completion of portfolio of learning;
 - the successful completion of training time;
 - the successful completion of the research assignment according to the regulations of the University; and
 - the successful completion of the flexible assessment.
- If you resign as registrar with the Western Cape Provincial Department of Health or are denied the right by the Faculty Board to continue with your studies, you must vacate your registrar post.

Enquiries

Programme leader: Dr R Jones

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5.3.1.27. MMed Public Health Medicine**MMed (PHM)***Specific admission requirements*

The following specific admission requirement applies in addition to the general admission requirements for MMed programmes as mentioned in section 5.3.1 above:

- Three years of supervised medical experience which may include the compulsory two years of internship and the year of community service.

Duration of programme

The programme extends over four years.

Programme content

All modules are compulsory.

Theoretical modules

Public Health (Core Learning)	871(80)
Public Health (Elective Learning)	872(136)
Research Assignment	820(120)

Please note: The Public Health (Core Learning) and Public Health (Elective Learning) modules include coursework, ad hoc seminars or semi-structured learning, a short report, self-learning and elective learning (special interest areas) covering the content specified in the College of Public Health Medicine Guidelines and Regulations (www.cmsa.co.za).

Practical module

Supervised Training Exposure	873(144)
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Assessment and examination

- The MMed (Public Health Medicine) examination consists of two parts, namely:
 - the MMed research assignment (pass mark of at least 50%); and
 - the successful completion of the examination of the College of Public Health Medicine of the Colleges of Medicine of South Africa (CMSA) with a pass mark of at least 50% (weighted average for both the unseen component and overall). Details of the examination of the College of Public Health Medicine of the CMSA are available on the website of the CMSA at <http://www.cmsa.ac.za/>.

Please note:

Assessment and examination are in evolution and it is expected that workplace-based assessments will play a stronger role in future. Please regularly consult official public health medicine regulations and guidelines on the CMSA website to keep up to date with these changes.

- To gain entry to the CMSA examination you must at registration for the examination:
 - have obtained a minimum average pass mark of 50% for the MMed research assignment (as evaluated by one internal and one external examiner);
 - hand in the short research report as required by the College of Public Health Medicine of the CMSA; and
 - have been registered for at least three years in an HPCSA approved training post number.
- Flexible assessment of your progress is done by means of module assessments, as well as six-monthly progress reports as prescribed by the CMSA.
- On identification of inadequate progress, remedial steps will be implemented. Continuation of inadequate academic progress will result in you having to vacate the registrar training post.
- You must have at least four years of training time within a registrar training post and in an HPCSA approved training post number and have passed the CMSA examination in order to register as a specialist in Public Health Medicine.
- If you have not successfully completed the examination of the CMSA, Division of Public Health Medicine after four years of training time, an extension in training time and continuation of employment in a registrar post will only be considered on grounds of your written request, with valid reasons, to the Postgraduate Programme Committee of the Division of Health Systems and Public Health.

Enquiries

Programme leader: Prof H Mahomed

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5.3.1.28. MMed Radiological Diagnosis**MMed (Rad D)***Specific admission requirements*

The following specific admission requirements apply in addition to the general admission requirements for MMed programmes as mentioned in section 5.3.1 above:

- The following are recommendations for appointment as registrar:
 - successful completion of the Part I examination in Radiological Diagnosis; and
 - supervised clinical experience in any aspect of diagnostic imaging.

Duration of programme

The programme extends over five years.

Programme description

The programme consists of unit-specific training modules presented as service-related clinical teaching. Training modules include:

- plain-film reporting;
- general sonography;
- fluoroscopy;
- computed tomography (CT);
- interventional/vascular radiology;
- mammography;
- nuclear medicine;
- paediatric radiology;
- obstetric ultrasound;
- Doppler ultrasound; and
- magnetic resonance imaging (MRI).

Additional educational activities include daily radiology meetings, lunch-hour film-reporting sessions, a weekly journal discussion and a formal weekly didactic academic programme.

You must complete a research project in the form of a research assignment that forms part of the final assessment for the MMed degree.

Programme content

Part I

You must preferably complete the Part I examination as a special postgraduate student prior to registration for the MMed (Rad D) programme and prior to appointment as registrar.

Radiological Physics	873(60)
Radiological Anatomy	871(60)

Part II (registrar training programme)

Radiological Diagnosis	874(240)
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Research assignment

Research Assignment	816(120)
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Assessment and examination

Part I

- The Part I examinations consist of the FC Rad (Diag)SA Part I Radiological Anatomy and the FC Rad (Diag)SA Part I Radiological Physics as convened by the College of Radiologists of the Colleges of Medicine of South Africa.
- If you are admitted to the registrar training programme prior to completion of the Part I examinations, you must successfully complete the Part I examination within 18 months of commencement of service as registrar.
- The successful completion of the Part I examination gives you access to the final examination of the College of Radiologists of the Colleges of Medicine of South Africa (FC Rad (Diag)SA Part II).

Part II (registrar training programme)

- If you fail to complete the Part I examination within 18 months of acceptance of a registrar post, you must vacate the post.
- Only in exceptional cases, and with the submission of an appropriate motivation, will the Postgraduate Committee of the Division of Radiodiagnosis consider extension of registrar training time.
- You will be assessed at the completion of each training module. Assessment will take the form of an oral examination or a reporting session.
- To successfully complete the training programme, you must obtain a minimum mark of 50% for each end-of-block assessment.
- If you fail to meet the minimum requirements, you will have to repeat the specific training module.
- You must keep and update a case log-book in the course of the study period. This will be approved by the head of the Division to confirm that you have successfully completed your registrar training programme.
- You must complete at least 42 months of the training programme and meet the minimum requirements in all end-of-block assessments, have completed the required MMed research assignment and submitted the final manuscript for examination before you can write the Part II examination in Radiological Diagnosis.
- The Part II examination is the final Fellowship Examination of the College of Radiologists of the Colleges of Medicine of South Africa (FC Rad (Diag)SA Part II) as required for registration as a specialist with the Health Professions Council of South Africa.
- It, however, remains the responsibility of the head of the Division to confirm the following:
 - successful completion of training time;
 - successful completion of flexible assessment in all training modules;
 - submission of a completed case log-book; and
 - successful completion of a research assignment according to the regulations of the University.

Research assignment

- The protocol for the research assignment must be submitted for approval to the Postgraduate Committee of the Division and other relevant faculty structures, including the Health Research Ethics Committee, not later than 24 months after appointment in a registrar post.
- You must complete the research assignment before you can take the Part II examination.
- The research assignment must be submitted as a full-length assignment or as a published manuscript in a peer-reviewed scientific journal.
- Completion of the research assignment is a requisite for specialist registration with the Health Professions Council of South Africa.

Enquiries

Programme leader: Prof Richard Pitcher

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5.3.1.29. MMed Radiological Therapy**MMed (Rad T)***Specific admission requirements*

This programme does not have specific admission requirements. The general admission requirements for MMed programmes as mentioned in section 5.3.1 above are applicable.

Duration of programme

The programme extends over four years.

Programme description

The objectives of the qualification are to:

- train you as qualified medical doctor in the non-surgical management of cancers (mainly radiation and chemotherapy) to a standard of safety that complies with the requirements of the Health Professions Council of South Africa, the College of Radiation Oncologists of the Colleges of Medicine of South Africa and the international community of health care professionals;
- train you as oncologist so that you will provide comprehensive (specialised) health care in a conscientious manner to the patient as an individual and as a member of the community, in accordance with the strategic framework of Stellenbosch University and the Faculty of Medicine and Health Sciences;
- stimulate independent thinking and promote responsibility for further professional self-development;
- ensure that you become skilled in the critical interpretation of literature and its application in the daily practice of oncology; and
- ensure that you acquire the skills for decision making on treatment in the fields of radiation, chemotherapy and surgical interventions.

*Programme content***Part I**

Anatomy (Radiological Therapy)	872(40)
Radiobiology	872(40)
Radiation Physics	874(40)

Part II

Radiotherapy and Radio-isotopes	874(240)
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Research assignment

Research Assignment	817(120)
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Assessment and examination

- To obtain the MMed (Rad T) degree, you must successfully complete the Part I and Part II examinations of the College of Radiation Oncologists of the Colleges of Medicine of South Africa as well as a research assignment (a full-length assignment or a prepared manuscript for a peer-reviewed journal).
- The FC Rad Onc(SA) Part I is a written examination. The entry requirements are a minimum of six months' training in a recognised registrar training programme.
- Part II consists of:
 - a written examination;
 - an objective structured clinical examination (OSCE); and
 - an oral examination.
- A minimum of 36 months' training in a recognised registrar training programme is required to be admitted to the Part II examination.
- Prior to the Part II examination the head of Division of Radiation Oncology must confirm that you:
 - spend adequate time in training;
 - completed a logbook of training; and
 - successfully completed the research assignment.
- You must pass the Part I and Part II examinations within 18 months and 60 months respectively from commencement of training. Under exceptional circumstances, and as agreed to by the Postgraduate Committee of the Division, extension of training time may be considered.
- You must submit the assignment at least six months prior to graduation.
- The final results will be determined by an equal contribution of the marks for the Part I and the Part II examinations as well as the research assignment.

Enquiries

Programme leader: Prof H Simonds

Tel: 021 938 4727 E-mail: hsimonds@sun.ac.za or drb@sun.ac.za

5.3.1.30. MMed Surgery**MMed (Surg)***Specific admission requirements*

This programme does not have specific admission requirements. The general admission requirements for MMed programmes as mentioned in section 5.3.1 above are applicable.

Duration of programme

The programme extends over five years.

Programme content

Basic Sciences	871(90)
Surgical Principles	872(90)
Clinical Surgery	871(180)
Research Assignment	812(120)

Assessment and examination

- Written and oral/practical examinations of the College of Surgeons of South Africa (FCS(SA)), namely Part I(a), Part I(b) and Part II (final) on completion of the Basic Sciences, Surgical Principles and Clinical Surgery modules respectively.
- You must pass these examinations within 18, 42 and 60 months respectively from first registration as MMed (Surg) student.
- If you do not meet these requirements, you may be excluded from the rest of the programme.
- Only in exceptional cases and with the submission of an appropriate motivation, will the Postgraduate Programme Committee of the Division of Surgery consider continuation of your service in a registrar post and further attendance of the programme.
- You must successfully complete the FCS(SA) Part II examination and a research assignment of acceptable quality to be awarded the MMed (Surg) degree and register as a specialist surgeon with the HPCSA.
- The final mark for awarding the MMed (Surg) degree is calculated as follows:
 - mark for the FCS(SA) Part II examination – 75%; and
 - mark for the research assignment – 25%.

Enquiries

Programme leader: Prof E Steyn

Tel: 021 938 9271 E-mail: esteyn@sun.ac.za

5.3.1.31. MMed Thoracic Surgery**MMed (Thor Surg)***Specific admission requirements*

This programme does not have specific admission requirements. The general admission requirements for MMed programmes as mentioned in section 5.3.1 above are applicable.

Duration of programme

The programme extends over five years.

Programme content

Anatomy	861(33)
Anatomical Pathology	876(34)
Physiology	876(33)
Thoracic Surgery	871(160)
Thoracic Surgery (Intermediate)	871(100)
Research Assignment	831(120)

Assessment and examination

- The MMed Part I written examination is conducted within 18 months and you must pass it with a minimum of 50%.
- The intermediate examination is conducted in writing and orally, and must be passed with a minimum of 50% within three and a half years.
- The MMed Part II examination consists of written, practical and oral examinations, which must each be passed with a subminimum of 50%.

- The assignment carries a weight of 25% of the total credits and must focus on a relevant topic in Thoracic Surgery in a discipline of your choice. By way of the assignment, you must demonstrate your ability to perform independent research. The report must be completed in a standard format to the satisfaction of an internal and an external examiner.
- You must keep and update a case-book in the course of the study period. It must be approved by the head of the Division of Thoracic Surgery before the MMed (Thor Surg) studies will be regarded as complete.
- You must complete the assignment before the degree is awarded.
- The HPCSA requires that you successfully complete the single national exit examination to register as a specialist.
- The Division acknowledges this examination as equivalent to and substituting the MMed (Thor Surg) Part II examination.
- It, however, remains the responsibility of the head of the Division to confirm the following:
 - successful completion of clinical training time;
 - submission of a completed case-book;
 - successful completion of the assignment according to the regulations of the University in this regard; and
 - successful completion of flexible assessment.

Enquiries

Programme leader: Prof JT Janson

Tel: 021 938 9432 E-mail: jjanson@sun.ac.za

5.3.1.32. MMed Urology

MMed (Urol)

Specific admission requirements

This programme does not have specific admission requirements. The general admission requirements for MMed programmes as mentioned in section 5.3.1 above are applicable.

Duration of programme

The programme extends over five years.

Programme content

Anatomical Pathology	877(15)
Anatomy	867(15)
Physiology	877(15)
Urology	877(45), 876(180)
Urology (Intermediate)	877(90)
Research Assignment	832(120)

Assessment and examination

- The Part I examination (Primary: Anatomy, Physiology and Anatomical Pathology) must be passed within 18 months with a minimum mark of 50%.
- The Intermediate examination comprises written and oral examinations and must be passed with a minimum mark of 50% within three and a half years.
- The Part II examination comprises written, practical and oral examinations, which must each be passed with a subminimum of 50%.
- The research assignment carries a weight of 25% of the final mark and must focus on a relevant topic in Urology. You must demonstrate the ability to conduct independent research. The assignment must be completed in a prescribed format as a research document to be assessed by an internal and an unattached external examiner.
- The Part II examination and the research assignment must be completed not later than 60 months after appointment as registrar in Urology.
- If you fail to successfully complete the Part I examination within 18 months, the Intermediate examination within 42 months and the Part II examination within 60 months, you will not be permitted to re-register for the MMed (Urol) and you must vacate the registrar post in Urology. Exceptions to this rule will be considered only under exceptional circumstances.
- The final mark consists of:
 - Final (Clinical, Part II) examination – 75%; and
 - MMed assignment – 25%.
- According to the regulations of the College of Urologists of South Africa, if you have passed the Intermediate examination for the MMed (Urol), you qualify for admission to the final examination for the Fellowship of the College of Urologists of South Africa (FCUrol (SA)). The FCUrol (SA) will, however, only be awarded after you have provided written evidence that the research assignment for the MMed (Urol) has been approved.
- If you have passed the final examination for the FCUrol (SA), you are exempt from the examination for Part II of the MMed (Urol), but you must still complete the research assignment and clinical training period before the MMed (Urol) is awarded.

Enquiries

Programme leader: Prof A van der Merwe

Tel: 021 938 9577 E-mail: arvdm@sun.ac.za

5.3.2 Master of Science*General admission and selection requirements for MSc programmes*

- For admission to the MSc degree programmes, you must have an honours degree in Science of this University, or another honours degree approved for such purposes by Senate, or you must otherwise have attained a standard of competence deemed adequate for such purpose by Senate.
- The initial research proposal is approved by a departmental research committee, as well as by the Health Research Ethics Committee of the Faculty of Medicine and Health Sciences. In instances where research is conducted on animals, the proposal is approved by the Committee for Experimental Animal Research of the Faculty.

Programme description

Thesis MSc programmes entail an independent research project, resulting in a thesis that constitutes 100% of the final mark of the programme. The subject of the research project is selected to support the Faculty's research focus areas.

The following overarching objectives are set for the MSc programmes:

- to equip you with more advanced knowledge and a deeper insight into your chosen subject within the field of study;
- to promote mastery of the chosen topic, with the aid of higher levels of analysis of new information, and to develop the ability to handle complexities and to find solutions to such problems;
- to enable you to do advanced and independent research by means of rigorous training in research methods and to familiarise you with the skills needed for academic communication;
- to prepare you, if you are aspiring to higher levels of academic research work, for doctoral study and to foster an approach marked by academic integrity and ethics;
- to contribute to the pool of academics and professionals through the development of capabilities and critical intellectual skills aimed at ensuring the healthy continuance of the relevant discipline or profession; and
- to prepare you to utilise your skills to help solve the problems and challenges of the country that fall within the scope of your particular field.

5.3.2.1. MSc in Anatomy*Specific admission requirements*

The following specific admission requirements apply in addition to the general admission requirements for MSc programmes as mentioned in section 5.3.2 above:

- If you have a BTech qualification:
 - you will be considered for admission if you have passed the BTech degree with a minimum of 60%; and
 - thereafter you will be admitted if you pass the BScHons examination in the relevant field of study as a preliminary examination with a minimum mark of 60%.

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**.

Duration of programme

The programme extends over one year.

Programme description

This is a completely thesis-based master's programme. The initial research proposal is approved by a departmental research committee and the Health Research Ethics Committee of the Faculty of Medicine and Health Sciences.

Programme content

Thesis	872(180)
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Assessment and examination

- You must complete a research project, leading to the submission of a thesis that is assessed according to University guidelines through a process of internal and external examination.
- The final mark is calculated from the marks obtained for the research project and thesis, as well as for a presentation and an oral examination.

Enquiries

Programme leader: Prof BJ Page

Tel: 021 938 9430 E-mail: bjp@sun.ac.za

5.3.2.2. MSc in Baromedical Sciences

Specific admission requirements

- One of the following:
 - the BScHons (Underwater Medicine) degree or the BScHons (Hyperbaric Medicine) degree of this University or another acknowledged institution for tertiary education;
 - another qualification approved for such purposes by Senate; or
 - you must otherwise have attained a standard of competence deemed adequate for such purposes by Senate.
- If you have a qualification on honours level with another major subject, you may be admitted based on a motivation and/or the successful completion of an admission examination. Depending on the field of study, additional work and/or proof of competency may be required.

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**.

Duration of programme

The programme extends over a minimum of one year on a full-time basis or two years on a part-time basis.

Programme description

This research-based programme comprises an approved research project, a thesis and an oral presentation. The initial research protocol will be approved by the departmental research committee and the Health Research Ethics Committee of the Faculty of Medicine and Health Sciences.

Programme content

Thesis: Baromedical Sciences	895(180)
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Assessment and examination

- You must complete a research project, leading to the submission of a thesis which is assessed according to University guidelines through a process of internal and external examination.
- The pass mark is 50%.

Enquiries

Programme leader: Dr WAJ Meintjes

Tel: 021 938 9272 E-mail: wajm@sun.ac.za

5.3.2.3. MSc in Bioinformatics and Computational Biology

This programme is offered as a multidisciplinary programme within the Faculties of AgriSciences, Medicine and Health Sciences, and Science. You enrol in the faculty where your research focus and supervisor(s) are situated and will graduate with the degree from that faculty.

Specific Admission Requirements

- One of the following qualifications:
 - A BScHons degree in Bioinformatics and Computational Biology, Biochemistry, Genetics, or Molecular Biology;
 - An applicable BScHons degree in a biological field;
 - A BScHons degree in Computer Science, Informatics, Mathematics, Applied Mathematics or Statistics;
 - An applicable BScHons degree in a Mathematics-related field; or
 - Any other academic degree qualification and appropriate experience (assessed using the regular RPL procedures) approved by the Senate
- Depending on your previous training and experience, the Postgraduate Committee of the Division of Molecular Biology and Human Genetics may prescribe additional studies.

Programme Content

Independent research on an approved topic as determined by the supervisor(s) and leading to a thesis is required. This programme consists of a 100% thesis.

Compulsory Module

Thesis: Bioinformatics and Computational Biology	818(180)
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Assessment and Examination

After completion of the research you must submit a thesis for examination to the satisfaction of the appointed examiners and do an oral examination.

Enquiries

Programme leader: Prof H Patterton

Tel: 021 808 2774 E-mail: hpatterton@sun.ac.za

5.3.2.4. MSc in Biostatistics*Specific admission requirements*

The MSc in Biostatistics programme targets students with either mathematical/statistical or biomedical background.

The following specific admission requirements are applicable;

- The National Senior Certificate with Mathematics (or equivalent) and one of the following at NQF level 8:
 - an honours degree in Mathematics or Statistics or Biostatistics;
 - an honours degree in a field related to the Biomedical Sciences;
 - a medical degree (MBChB); or
 - any other qualification deemed adequate by Senate.
- Depending on your field of study, additional work and/or proof of competency may be required.

Selection criteria

Specific selection criteria include an average mark of at least 65% for the last qualification obtained. You must also show competence in Linear Algebra and Calculus by completing a short course and passing with a minimum mark of 65%.

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**. All applications are reviewed by a selection committee. Candidates are selected on academic merit and only a limited number of candidates are admitted to the programme.

Duration of programme

The programme extends over two years on a full-time basis or three years on a part-time basis.

Programme description

The objectives of the programme are to:

- develop highly qualified and skilled biostatisticians with the technical competence to contribute significantly to addressing the public health problems and challenges of their communities;
- prepare you, if you are aspiring to move to a higher level of academic research work, for doctoral studies and to promote an approach based on academic integrity and professional ethics;
- contribute to the pool of academics and professionals with the competence and critical intellectual abilities to ensure advancement in the field of biostatistics and to fulfil the need in the country for a skilled scientific workforce of the highest calibre;
- prepare you to apply principles of statistical reasoning in addressing critical questions in public health and biomedical science; and
- educate and train you to be an independent thinker and lead the data management and statistical analyses of research studies to advance knowledge and guide policy.

Programme outcomes

On completion of the programme, you will have:

- developed a sound understanding of epidemiological study design and the theory and application of the major areas of biostatistics relevant to professional practice;
- acquired skills in complex statistical analyses to handle a variety of practical problems using modern statistical techniques and software;
- acquired skills in data management, including quality control procedures and the ethical handling of data;
- developed skills to identify the relevant statistical issues in practical problems in medical/health settings and to propose and implement an appropriate statistical design and/or analytical methodology;
- developed skills and gained experience in discussing biostatistical issues with clinical/health personnel and in the presentation of statistical results in a format suitable for publication in health-related journals or professional reports;
- acquired the technical skills to be able to understand and critique methodological papers in the biostatistical literature and apply the methods described in those papers to practical problems;
- developed the practical and technical skills to commence a professional career as an independent biostatistician and/or to progress to further postgraduate research studies; and
- developed problem-solving abilities in biostatistics, characterised by flexibility of approach.

*Programme content**Compulsory modules*

Analysis of Observational Data: Causal Inference	875(12)
Analysis of Survival Data	875(12)
Biostatistical Consulting	875(12)
Categorical Data Analysis and Generalised Linear Models	875(12)
Data Management and Statistical Computing	875(6)
Fundamentals of Epidemiology	876(6)
Linear Models	875(6)
Longitudinal Data Analysis	875(12)
Mathematical Statistics	875(6)
Practical Assignment	875(60)
Principles of Statistical Inference	875(12)

Elective modules

Please note: An elective module will only be offered if a minimum of five students have enrolled for the module.

Choose two of the following modules.

Bayesian Data Analysis	875(12)
Clinical Biostatistics	875(12)
Design and Analysis of Clinical Trials	875(12)
Multivariate Statistics	875(12)
Systematic Reviews and Meta-analysis	875(12)

Assessment and examination

- Flexible assessment occurs throughout the study period.
- You must obtain a class mark of at least 50% in each module to qualify for the examination in the module. The class mark and the examination mark will each contribute 50% towards the final mark for the module. A final mark of 50% must be achieved in each module.
- You will only be permitted to begin with the practical assignment on satisfactory completion of the compulsory and elective modules. The practical assignment will be assessed from a portfolio of projects that demonstrate biostatistical expertise in the design and analysis of biomedical studies. A mark of at least 50% must be achieved for the assignment.
- The final mark for the MSc in Biostatistics degree will be a weighted average of the marks for the individual modules and the assignment.

Enquiries

Programme leader: Liesel Esterhuizen

Tel: 021 938 9314 E-mail: lesterhuizen@sun.ac.za

Website: <http://www.sun.ac.za/english/faculty/healthsciences/epidemiology-biostatistics/masters/msc-biostatistics>

5.3.2.5. MSc in Clinical Epidemiology*Specific admission requirements*

- One of the following qualifications at NQF level 8:
 - an MBChB or equivalent degree;
 - a four-year professional bachelor's degree in a health-related discipline;
 - a BScHons degree of this University or another recognised university; or
 - an equivalent qualification approved by Senate.
- If you obtained your qualifications at non-South African institutions, these qualifications will be evaluated for comparability by the Postgraduate Office (Stellenbosch Campus) to determine if you are eligible to be considered for admission to the programme.
- Mathematics at National Senior Certificate (NSC) level, computer literacy and fluency in written and spoken English. If you, as an international candidate, are from a non-English speaking country, you must submit official documentary evidence with your application of your competence in English. This may include, among other things:
 - the results of the IELTS test with a minimum IELTS score of 6,5;
 - the results of the TOEFL test with a minimum TOEFL score of 550 (paper based) or 213 (computer based), preferably with a TWE score of 4,5; and/or
 - proof and results of any English courses attended (e.g. English for Medical Students/Englisch für Mediziner).

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**.

Candidates are selected on academic merit and all applications are reviewed by a selection committee. Only a limited number of students are admitted to the programme.

Duration of programme

The programme is presented on a part-time basis over a minimum period of two years.

Programme description

Clinical Epidemiology is the science of applying the best available research evidence to patient care. It uses the methods of epidemiology to find scientifically valid answers to questions concerning diagnosis, prevention, therapy, prognosis and aetiology, thus improving the evidence base for the care of individual patients.

The course offers rigorous methodological training for those with a background or experience in a health-related discipline who wish to pursue a career in clinical research or evidence-based practice. The programme would also be of interest to potential researchers who require robust training in research techniques, including advanced concepts and methods of epidemiology.

Programme content

The programme consists of modules with a total of 120 credits and a research assignment of 60 credits.

You must complete ten modules (eight compulsory modules with a total of 96 credits and two elective modules with a total of 24 credits). The choice of elective modules depends on meeting relevant prerequisites for the modules and avoiding timetable clashes with core modules. Elective modules require a minimum number of 10 students. You must attend compulsory contact sessions and participate online in e-learning sessions.

*Compulsory modules***First year**

Fundamentals of Epidemiology*	875(12)
Biostatistics I*	875(12)
Research Proposal Writing and Grantsmanship	875(12)
Systematic Reviews and Meta-analysis	875(12)
Biostatistics II	875(12)

*These first-semester modules are pre-requisite modules for the second-semester modules.

Second year

Diagnosis and Screening	875(12)
Randomised Controlled Trials	875(12)
Writing and Reviewing Scientific Papers	875(12)

Elective modules

Choose two of the following modules.

First or second year

Infectious Disease Epidemiology	875(12)
Economic Evaluation	875(12)
Qualitative Evidence Synthesis	875(12)

Second year

Introduction to Health Systems and Public Health	875(12)
Clinical Guidelines	875(12)
Teaching Evidence-based Health Care	875(12)
Monitoring and Evaluation	875(12)
Cancer Epidemiology	873(12)
Knowledge Translation	875(12)
Advanced Epidemiology	875(12)

Research assignment

Research Assignment	875(60)
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*Assessment and examination***Modules**

- Formative and summative assessment of modules (120 credits) will be conducted by means of written examinations, oral presentations, written assignments and participation in discussions. Formative and summative assessments will contribute 50% respectively to the module mark.
- An overall pass mark of 50% is required for each module with a subminimum of 45% for formative as well as summative assessment.
- If you achieve less than the subminimum of 45% for formative or summative assessment in a module, or less than the overall pass mark of 50%, you fail the module.
- If you fail any compulsory module more than once, you may be denied the right to reregister for the programme.
- You are required to participate successfully and to integrate knowledge in projects, reports and assignments.

Research assignment

- The completed research assignment must be submitted in the prescribed format and will be assessed by both internal and external examiners.
- You will be allowed to register for the research assignment for a maximum of three years. If you fail to complete the research assignment within this time, your performance will be officially reviewed by the Programme Committee of the Division of Epidemiology and Biostatistics, and you may be denied the right to reregister for the programme.

Enquiries

Programme leaders: Michael McCaul and Tonya Esterhuizen

Tel: 021 938 9157 E-mail: mmccaul@sun.ac.za and tonyae@sun.ac.za

Programme administrator: Anthea Henry

Tel: 021 938 9157 E-mail: ahenry@sun.ac.za

Website: <http://www.sun.ac.za/english/faculty/healthsciences/epidemiology-biostatistics/masters/msc-clinical-epidemiology>

5.3.2.6. MSc in Cytopathology*Specific admission requirements*

- An MBChB/BChD degree with a postgraduate qualification in Anatomical Pathology or Oral Pathology; or
- An MBChB/BChD degree with at least two years' experience in a cytology laboratory supervised by a specialist cytopathologist or histopathologist with experience in cytopathology.
- Registration with the Health Professions Council of South Africa (not applicable if you are from outside of South Africa).

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**.

Duration of programme

The programme extends over minimum of two years.

Programme description

The programme aims:

- to equip you with more advanced knowledge of and a deeper insight into a chosen subject within the field of study;
- to promote mastery of the chosen topic with the aid of higher levels of analysis of new information, and the ability to handle complexities and to find solutions to such problems;
- to enable you to undertake independent research;
- to prepare you, if you are aspiring to higher levels of academic research work, for doctoral study and to foster an approach based on academic integrity and ethics;
- to contribute to the pool of academics and professionals with the requisite capabilities and critical intellectual skills to ensure the healthy continuance of the relevant discipline or profession; and
- to prepare you to utilise your skills to help solve the problems and challenges of the country that fall within the scope of the particular field.

Programme content

The programme is presented in a modular format.

Cytology Laboratory Principles	871(40)
Systemic Organ Cytology Part I	872(40)
Systemic Organ Cytology Part II	873(40)
Research Assignment (Cytopathology)	874(60)

Assessment and examination

You must:

- achieve a minimum of 50% in both the theoretical and practical components of each module;
- successfully participate in and integrate knowledge during projects, pathology reports and assignments;
- complete a full research project dealing with a chosen aspect of cytopathology, meeting the standards and requirements of a master's degree project; and
- by means of the project, demonstrate the ability to integrate theoretical concepts and research skills successfully.

Enquiries

Programme leader: Dr PT Schubert

Tel: 021 938 5349 E-mail: pawels@sun.ac.za

5.3.2.7. MSc in Epidemiology*Specific admission requirements*

- You must have one of the following qualifications at NQF level 8:
 - an MBChB or equivalent degree;
 - a four-year professional bachelor's degree in a health-related or quantitative sciences discipline;
 - a relevant BScHons degree of this University or another recognised university; or
 - an equivalent qualification approved by Senate for this purpose, or you must have otherwise attained a standard of competence in your field of study deemed adequate for this purpose by Senate.
- You must also have:
 - passed Mathematics at National Senior Certificate (NSC) level or equivalent;
 - computer literacy, including the use of statistical software for data analysis; and
 - fluency in written and spoken English. If you, as an international candidate, are from a non-English speaking country, you must submit official documentary evidence with your application of your competence in English. This may include, among other things:
 - the results of the IELTS test with a minimum IELTS score of 6,5;
 - the results of the TOEFL test with a minimum TOEFL score of 550 (paper based) or 213 (computer based), preferably with a TWE score of 4,5; and/or
 - proof and results of any English courses attended (e.g. English for Medical Students/Englisch für Mediziner).
- You must also submit a research concept note to the satisfaction of the Programme Committee.

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**.

All applications are reviewed by a selection committee. Candidates are selected on merit and only a limited number of candidates are admitted to the programme.

Duration of programme

The programme extends over a minimum of one year on a full-time basis or two years on a part-time basis.

Programme description

This is a completely thesis-based master's programme. It builds competency in epidemiology – the study of the distribution and determinants of health-related states or events in specified populations, and the application of the study to the control of health problems.

Programme content

You must complete preparatory modules at NQF level 9 on epidemiology, biostatistics and research proposal writing prior to the finalisation of your research protocol.

Thesis: Epidemiology	872(180)
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Assessment and examination

- You must complete a thesis that is assessed according to University guidelines through a process of internal and external examination.
- The thesis counts 100% towards the final mark. You must pass the thesis with at least 50% to obtain the degree.

Enquiries

Programme leader: Prof P Nyasulu

Tel: 021 938 9886 E-mail: pnyasulu@sun.ac.za

Website: <http://www.sun.ac.za/english/faculty/healthsciences/epidemiology-biostatistics/masters/msc-epidemiology>

5.3.2.8. MSc in Food and Nutrition Security

Specific admission requirements

One of the following qualifications:

- an applicable BSc Science (three years) and honours degree; or
- a BSc Agriculture degree or a four-year Health Sciences degree with a minimum pass mark of 60%; or
- a bachelor's and an honours degree at level 8 of the National Qualifications Framework (NQF) with a minimum pass mark of 60% as approved by Senate.

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**.

Please note: Only a limited number of students are selected annually.

Duration of programme

The programme extends over a minimum of two years.

Programme description

This structured programme is presented mainly by means of technology-mediated teaching and learning, in combination with courses presented on campus. The programme comprises twelve theoretical modules and a research assignment (33% of the total credits). If the academic year extends over 40 weeks, the expectation is that you will use 22,5 notional hours per week to complete the programme.

Programme content

First year

Conceptualising Food Systems	811(10)
Food Safety, Hazards and Risks	812(10)
Human Economic Development	813(10)
Agriculture-nutrition Linkages	814(10)
Food Processing and Preservation	815(10)
Introduction to Epidemiology	841(10)
Macro- and Micronutrients and Health	842(10)
Functional Foods and GMOs	843(10)
Food Chains and Consumers	844(10)

Second year

Assessing Food Security	821(10)
Food Security Project Analysis	822(10)
Food and Nutrition Policies	823(10)
Research Assignment	841(60)

Assessment and examination

- Final marks for theoretical modules will consist of a class mark (40% – SUNLearn discussions, assignments, tasks) and the mark of the final written assignment/portfolio (60%).
- You must obtain a minimum of 50% to pass all individual modules.
- The final mark for the research assignment will be calculated as follows:
 - protocol – 10%;
 - research assignment – 80%; and
 - project execution – 10%.
- The final mark for the degree will be calculated as follows:
 - course work – 65%; and
 - research assignment – 35%.

Enquiries

Programme leader: Mrs J Visser

Tel: 021 938 9473 E-mail: jconrad@sun.ac.za

5.3.2.9. MSc in Human Genetics

Specific admission requirements

The following specific admission requirements apply in addition to the general admission requirements for MSc programmes as mentioned in section 5.3.2 above:

- If you have a BTech qualification:
 - you will be considered for admission if you have passed the BTech degree with a minimum of 60%; and

- then you will be admitted if you pass the BScHons examination in the relevant field of study as a preliminary examination with a minimum mark of 60%.

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**.

Duration of programme

The programme extends over two years.

Programme description

This is a thesis-based programme with no study modules. The programme consists of a research project, thesis and project presentation. You compile the research proposal with the help of the supervisor and present it to the Committee for Postgraduate Teaching.

Programme content

Thesis: Human Genetics	872(180)
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Assessment and examination

- You must complete a research project.
- Progress is monitored continuously by the supervisor.
- Research results must be presented in a thesis that is assessed by an internal and external examiner and a project presentation must be delivered.
- The final mark is calculated from the marks obtained for the research project (supervisor's mark), thesis (internal and external examiner) and project presentation.
- You must obtain 50% to pass and 75% to pass with distinction.

Enquiries

Programme leader: Prof SMJ Hemmings

Tel: 021 938 9775 E-mail: smjh@sun.ac.za

5.3.2.10. MSc in Implementation Science

Specific admission requirements

For admission to the MSc (Implementation Science) programme the candidate shall hold:

- an MBChB or equivalent degree; or
- a four-year professional bachelor's degree in a health-related discipline; or
- a BScHons degree of this University or another recognised university; or
- an equivalent qualification approved by Senate.

Fluency in written and spoken English is a further requirement for admission to the programme. Previous experience in HIV and/or TB research is a recommendation. Candidates will be selected on academic merit.

Application procedure and closing date

Different application procedures and deadlines apply to South African and international students. Follow the appropriate procedure and make sure of the appropriate deadline. All applicants are encouraged to use the e-application system: <http://t2000-05.sun.ac.za/eAansoeke/alg.jsp?Tl=1>.

31 August: International students - last day to apply for admission to the programme.

30 September: South African students - last day to apply for admission to the programme.

30 November: Last day for successful candidates to register.

Duration of programme

The programme is offered full-time over a minimum period of one year and on a part-time basis over a minimum period of two years.

Programme description

Implementation science research is an emerging discipline and especially important in the context of low- and middle-income countries with high disease burdens, such as tuberculosis (TB) and human immunodeficiency virus (HIV). The scope includes any research producing practically usable knowledge (evidence, findings, information, etc.) which can improve programme implementation (e.g. effectiveness, efficiency, quality, access, scale-up, sustainability) regardless of the type of research (design, methodology, approach).

The purpose of the programme is to train the workforce required to conduct high-priority TB and HIV research to reduce the burden of HIV infection among TB patients and the burden of TB among people living with HIV (PLHIV) through a focus on implementation research (IR) training and capacity building. Priority areas of IR for (i) HIV, such as ways of identifying HIV-infected individuals who do not yet know their status, (ii) TB, such as improved case finding and (iii) HIV/TB, such as early initiation of antiretroviral treatment for all HIV-positive TB patients will be main areas of interest. The long-term objective is to develop capacity for in-depth training in the field of HIV/TB implementation research through the development of

independent well-skilled researchers to the level of Master's in the areas of TB and HIV, installing in these researchers the ability to apply for national and international competitive grants and train other researchers in the TB and HIV fields.

Programme content

The programme consists of modules with a total of 90 credits and a research project (thesis) of 90 credits. Students must complete all three compulsory modules and the thesis.

Principles of Implementation Research	871(30)
Designing Health Interventions for Implementation Research	872(30)
Evaluating Health Interventions for Implementation Research	873(30)
Thesis	874(90)

Assessment and examination

Modules

Formative and summative assessment of modules (90 credits) is conducted through written examinations and written assignments. A pass mark of 50% is required for each module with a subminimum of 45% on formative as well as summative assessment. If you fail any module you may be denied the right to reregister for the programme. You have to participate successfully and integrate knowledge in projects, reports and assignments.

Research project

The completed research project (thesis) shall be submitted in the prescribed format and shall be assessed by both internal and external examiners.

Enquiries

Programme leader: Dr Mareli Claassens

Tel.: (021) 938 9812 Email: mcla@sun.ac.za Skype: maclaas

Website: www.sun.ac.za/tb

5.3.2.11. MSc in Infection Prevention and Control

Specific admission requirements

- A suitable honours bachelor's degree with the required number of credits at level 8; and one of the following:
 - the Postgraduate Diploma in Infection Control (PG Dip (Infection Control)) of this University;
 - a similar qualification from another recognised university; or
 - other major subjects in sciences at honours level, with strong motivation for application for admission and successful completion of an admission examination. You may be admitted provided that you fulfil the admission requirements as defined in the Calendar of the Faculty of Medicine and Health Sciences of this University. Depending on the field of study, additional work or proof of competency (or both) may also be required.
- You must provide proof of competency in study design, data management, statistics and research methodology, as well as of computer literacy;

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**.

Only a limited number of applicants are selected annually.

Duration of programme

The programme extends over a minimum of one year on a full-time basis or two years on a part-time basis.

Programme description

This is a research-based degree programme, comprising a research project (100% of the credits) with no theoretical modules. You must plan and implement a research project and submit a thesis in the format specified in the study guide. The initial research protocol will be approved by the departmental research committee and the Health Research Ethics Committee of the Faculty of Medicine and Health Sciences.

Programme content

Thesis (Infection Prevention and Control)	872(180)
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Assessment and examination

The final mark for the programme is calculated as follows:

- the protocol – 20%;
- the average of the marks of the internal and external examiners for the thesis – 65%; and
- a compulsory oral examination – 15%.

Enquiries

Programme leader: Dr WAJ Meintjes

Tel: 021 938 5054 E-mail: wajm@sun.ac.za

Website: <http://www.sun.ac.za/uiipc>

5.3.2.12. MSc in Medical Microbiology*Specific admission requirements*

- A BScHons degree in a relevant field of study.
- If you have a BTech qualification:
 - you will be considered for admission if you have passed the BTech degree with a minimum of 60%; and
 - then you will be admitted if you pass the BScHons examination in the relevant field of study as a preliminary examination with a minimum mark of 60%.

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**.

Only a limited number of students can be accepted.

Duration of programme

The programme extends over a minimum of two years on a full-time basis.

Programme description

The programme consists of an extensive research project, leading to the submission of a thesis. The subject of the project is determined in close liaison with your supervisor, preferably within the area of expertise of the Division of Medical Microbiology, before you will be allowed to register for the programme. The initial research proposal is approved by a departmental research committee and the Health Research Ethics Committee of the Faculty of Medicine and Health Sciences. Progress with experimental work is monitored continuously by the supervisor. If you are unable to demonstrate satisfactory progress, the Programme Committee may recommend that you discontinue your studies.

Programme content

Thesis: Medical Microbiology	872(180)
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Assessment and examination

- You must complete a research project, which is assessed according to University guidelines through a process of internal and external examination.

Enquiries

Programme leader: Dr M Newton-Foot

Tel: 021 938 4009 E-mail: maen@sun.ac.za

5.3.2.13. MSc in Medical Physics*Specific admission requirements*

- A BScHons degree of this University, with Medical Physics as subject; or another bachelor's or honours degree approved by Senate; or you must have otherwise attained a standard of competence deemed adequate for such purposes by Senate.
- Registration as a medical physicist with the Health Professions Council of South Africa.

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**.

Duration of programme

The programme extends over two years.

Programme description

The initial research proposal is approved by a departmental research committee and by the Health Research Ethics Committee of the Faculty of Medicine and Health Sciences.

Programme content

Thesis: Medical Physics	872(180)
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Assessment and examination

- You must complete a research project, which is assessed according to University guidelines through a process of internal and external examination.

- The final mark is calculated from the marks obtained for the research project, thesis and oral examination.

Enquiries

Programme leader: Dr CJ Trauernicht

Tel: 021 938 6027 E-mail: cjt@sun.ac.za

5.3.2.14. MSc in Medical Physiology

Specific admission requirements

The following specific admission requirements apply in addition to the general admission requirements for MSc programmes as mentioned in section 5.3.2 above:

- If you have a BTech qualification:
 - you will be considered for admission if you have passed the BTech degree with a minimum of 60%; and
 - then you will be admitted if you pass the BScHons (Medical Physiology) examination as a preliminary examination with a minimum mark of 60%.

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**.

Duration of programme

The programme extends over two years.

Programme description

The programme consists of an extensive research project, leading to the submission of a thesis. The subject of the project is determined in close liaison with your supervisor, and should preferably fall within the area of expertise of the Division of Medical Physiology. The initial research proposal is approved by a departmental research committee and the Health Research Ethics Committee of the Faculty of Medicine and Health Sciences. Progress with experimental work is monitored continuously by the supervisor.

Programme content

Thesis: Medical Physiology	882(180)
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Assessment and examination

- You must complete a research project, leading to a thesis that is assessed according to University guidelines through a process of internal and external examination.

Enquiries

Programme leader: Prof H Strijdom

Tel: 021 938 9387 E-mail: jgstr@sun.ac.za

5.3.2.15. MSc in Medical Virology

Specific admission requirements

- A BScHons degree in a relevant field of study.
- If you have a BTech qualification:
 - you will be considered for admission if you have passed the BTech degree with a minimum final mark of 60%; and
 - then you will be admitted if you pass the BScHons examination in the relevant field of study as a preliminary examination with a minimum examination mark of 60%.

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**.

Duration of programme

The programme extends over a minimum of two years and a maximum of four years. If you do not complete the programme successfully within four years, you have to obtain special permission from the Postgraduate Programme Committee of the Division of Medical Virology to continue with the programme.

Programme description

The programme consists of a 100% research component. The initial research proposal is approved by a divisional research committee and the Health Research Ethics Committee of the Faculty of Medicine and Health Sciences. Progress with experimental work is monitored continuously by the supervisor and presented at divisional research meetings.

Programme content

Thesis: Medical Virology	872(180)
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Assessment and examination

- You must complete a research project and do an oral examination that are assessed according to University guidelines through a process of internal and external examination.

Enquiries

Programme leader: Dr C de Beer

Tel: 021 938 9453 E-mail: cdeb@sun.ac.za

5.3.2.16. MSc in Molecular Biology*Specific admission requirements*

The following specific admission requirements apply in addition to the general admission requirements for MSc programmes as mentioned in section 5.3.2 above:

- If you have a BTech qualification:
 - you will be considered for admission if you have passed the BTech degree with a minimum final mark of 60%; and
 - then you will be admitted if you pass the BScHons examination in the relevant field of study as a preliminary examination with a minimum examination mark of 60%.

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**.

Duration of programme

The programme extends over two years.

Programme description

This is a thesis-based programme with no study modules. The programme consists of a research project, thesis and project presentation. You write the research proposal with the help of the supervisor and present it to the Committee for Postgraduate Teaching.

Programme content

Thesis: Molecular Biology	872(180)
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Assessment and examination

- You must complete a research project, present the results in a thesis and deliver a project presentation.
- The thesis is assessed according to University guidelines by an internal and external examiner.
- The final mark is calculated from the marks obtained for the research project (supervisor's mark), thesis (internal and external examiners) and project presentation.
- You must obtain 50% to pass and 75% to pass with distinction.

Enquiries

Programme leader: Mrs B Durelle

Tel: 021 938 9124 E-mail: bvd2m@sun.ac.za

5.3.2.17. MSc in Morphological Sciences*Specific admission requirements*

The following specific admission requirements apply in addition to the general admission requirements for MSc programmes as mentioned in section 5.3.2 above:

- If you have a BTech qualification:
 - you will be considered for admission if you have passed the BTech degree with a minimum final mark of 60%; and
 - then you will be admitted if you pass the BScHons examination in the relevant field of study as a preliminary examination with a minimum examination mark of 60%.

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**.

Duration of programme

The programme extends over one year.

Programme description

This is a completely thesis-based master's programme. The initial research proposal is approved by a departmental research committee and the Health Research Ethics Committee of the Faculty of Medicine and Health Sciences.

Programme content

Thesis (Morphological Sciences)	895(180)
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Assessment and examination

- You must complete a research project, leading to the submission of a thesis that is assessed according to University guidelines through a process of internal and external examination.
- The final mark is calculated from the marks obtained for the research project and thesis, as well as for a presentation and an oral examination.

Enquiries

Programme leader: Prof SH Kotzé

Tel: 021 938 9428 E-mail: shk@sun.ac.za

5.3.2.18. MSc in Nuclear Medicine*Specific admission requirements*

- One of the following qualifications of this or another recognised university:
 - the MBChB degree;
 - a bachelor's degree with Physiology as major subject and Physics I and Chemistry I;
 - a bachelor's degree with Chemistry or Biochemistry as major subject, provided that Physiology is supplemented to a standard deemed adequate by Senate should Physiology not be the second major subject;
 - a bachelor's degree in Biology, Physics, Chemistry or appropriate radiation sciences;
 - a bachelor's degree in Pharmacy; or
 - another qualification approved for such purposes by Senate.
- A minimum pass mark of 60% in the major subject.
- If you have a BTech qualification:
 - you will be considered for admission if you have passed the BTech degree with a minimum final mark of 60%; and
 - then you will be admitted if you pass a preliminary examination in the relevant field of study, as determined by the Postgraduate Programme Committee, with a minimum examination mark of 60%.

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**.

Duration of programme

The programme extends over a minimum of two years.

Programme description

Three streams are available in this programme:

- Stream A – Research stream
 - A research project (100%) that leads to the writing of a thesis.
- Stream B – Coursework and research stream
 - Stream B comprises course work with an emphasis on nuclear medicine (120 credits) and a research project which includes an assignment (60 credits).
- Stream C – Coursework and research stream
 - Stream C comprises course work with an emphasis on radiobiological concepts (90 credits) and a research project leading to the writing of a thesis (90 credits).

The initial research proposal is approved by a departmental research committee, as well as by the Health Research Ethics Committee of the Faculty of Medicine and Health Sciences. Progress with experimental work is monitored continuously by the supervisor.

Programme content**Stream A – Research stream**

Thesis: Nuclear Medicine	875(180)
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Stream B – Coursework and research stream**First year***Compulsory modules*

Clinical Nuclear Medicine	872(20)
Radiopharmacy (Basic)	871(20)
Radiation Physics and Instrumentation	871(20)

Second year*Elective modules*

Choose two of the following modules.

Radiopharmacy (Advanced)	873(30)
Clinical Nuclear Medicine Diagnostic (Advanced)	874(30)
Clinical Nuclear Medicine Therapy (Advanced)	875(30)

First and second years*Compulsory module*

Research Project	883(60)
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Stream C – Coursework and research stream**First year***Compulsory module*

Principles of Radiobiology	871(45)
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Second year*Compulsory module*

Clinical Radiobiology	872(45)
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First and second years*Compulsory module*

Thesis	873(90)
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*Assessment and examination***Stream A – Research stream**

- The standard rules of the University for the assessment of master's theses are applicable.

Stream B and Stream C – Coursework and research streams

- For the coursework part of the coursework and research streams the following applies:
 - You must achieve a minimum pass mark of 50% in all the modules to obtain the degree.
- The standard rules of the University for the assessment of master's assignments/theses are applicable for the assignment/thesis part.

Enquiries

Programme leader: Prof A Ellmann

Tel: 021 938 4265 E-mail: ae1@sun.ac.za

5.3.2.19. MSc in Pharmacology*Specific admission requirements*

- One of the following qualifications at NQF level 8:
 - an MBChB or equivalent degree;
 - a four-year professional bachelor's degree in a health-related discipline;
 - a BScHons degree of this University or another recognised university; or
 - an equivalent qualification as approved by Senate.
- International candidates must provide proof of the equivalence of qualifications obtained from a non-South African Institute. A SAQA (South African Qualifications Authority) certificate must be submitted.

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**.

Duration of programme

The programme extends over two years.

Programme content

Two streams are available for participating in the full-time master's programme:

Thesis option

A laboratory research project (100%), which leads to the writing of a thesis.

Thesis: Pharmacology	896(180)
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Structured option

A laboratory research project, including an assignment, as well as coursework identical to that of the BScHons programme in Pharmacology.

Pharmacology of Systems	874(40), 875(40)
Principles of Pharmacology	872(40)
Research Assignment	884(60)

*Assessment and examination***Thesis option**

- The standard guidelines of this University regarding the assessment of master's theses are applicable.

Structured option

- The standard assessment of coursework, as in the case of BScHons in Pharmacology, is applicable.
- You must pass the examinations in the modules Principles of Pharmacology and Pharmacology of Systems with a minimum mark of 50%.
- The standard guidelines regarding the assessment of master's assignments are applicable to the assignment.
- The completed assignment must be marked by two examiners. You must pass the assignment with at least 50%.
- The final mark for the degree is calculated as the weighted average of the marks for the individual modules and the assignment. You must obtain a final mark of at least 50% for awarding of the degree, and 75% to pass with distinction.

Enquiries

Programme leader: Dr T Kellermann

Tel: 021 938 9281 E-mail: tkellermann@sun.ac.za

5.3.2.20. MSc in Radiobiology*Specific admission requirements*

- One of the following qualifications of this or another recognised university:
 - the MBChB degree;
 - a bachelor's degree with Physiology as major subject and Physics I and Chemistry I;
 - a bachelor's degree with Chemistry or Biochemistry as major subject, provided that Physiology is supplemented to a standard deemed adequate by Senate should Physiology not be the second major subject;
 - a bachelor's degree in Biology, Physics, Chemistry or appropriate radiation sciences;
 - a bachelor's degree in Pharmacy; or
 - another qualification approved for such purposes by Senate.
- A minimum pass mark of 60% in the major subject.
- If you have a BTech qualification:
 - you will be considered for admission if you have passed the BTech degree with a minimum final mark of 60%; and
 - then you will be admitted if you pass a preliminary examination in the relevant field of study, as determined by the Postgraduate Programme Committee, with a minimum examination mark of 60%.

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**.

Duration of programme

The programme extends over a minimum of two years.

Programme description

The programme consists of coursework and a research project. The coursework constitutes 50% of the programme and equips you with in-depth knowledge of radiobiological concepts. A research project which includes an assignment constitutes the other 50% of the programme.

The initial research proposal is approved by a departmental research committee, as well as by the Committee for Human Research of the Faculty of Medicine and Health Sciences. Progress with experimental work is monitored continuously by the supervisor.

*Programme content**Compulsory modules***First year**

Principles of Radiobiology	871(45)
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Second year

Clinical Radiobiology	872(45)
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First and second years

Research Project	873(90)
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Assessment and examination

- You must pass all modules with at least 50% to obtain the degree.
- The standard assessment of coursework as for BScHons programmes is applicable for the coursework part.
- The standard rules of the University for the assessment of master's assignments are applicable for the research part.

Enquiries

Programme leader: Prof J Akudugu

Tel: 021 938 9942 E-mail: jakudugu@sun.ac.za

5.3.2.21. MSc in Reproductive Biology*Specific admission requirements*

The following specific admission requirements apply in addition to the general admission requirements for MSc programmes as mentioned in section 5.3.2 above:

- If you have a BTech qualification:
 - you will be considered for admission if you have passed the BTech degree with a minimum final mark of 60%; and
 - then you will be admitted if you pass the BScHons examination in the relevant field of study as a preliminary examination with a minimum examination mark of 60%.

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**.

Duration of programme

The programme extends over one year on a full-time basis or two years on a part-time basis.

Programme description

This programme entails an independent research project in the field of reproductive biology (andrology and/or in vitro fertilisation), which culminates in a thesis that constitutes 100% of the final mark for the programme. The research project is selected according to your background and interests and in support of the Faculty's research focus areas. The initial research proposal is approved by a departmental research committee, as well as by the Health Research Ethics Committee of the Faculty of Medicine and Health Sciences. Progress with experimental work is monitored continuously by the supervisor.

Programme content

Thesis: Reproductive Biology	872(180)
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Assessment and examination

- The completed research project must be submitted in the prescribed format and will be assessed by both internal and external examiners.

Enquiries

Programme leader: Dr E Erasmus

Tel: 021 938 5487 E-mail: ee4@sun.ac.za

5.3.2.22. MSc in Sport and Exercise Medicine*Specific admission requirements*

- An MBChB or equivalent qualification, from this or any other university, approved by Senate for this purpose.
- Satisfactory evidence of an interest in sport and exercise.
- Registration as a medical practitioner with the Health Professions Council of South Africa (or an equivalent registering body outside South Africa).
- At least one year's experience as a medical practitioner after community service.

Selection

The MSc in Sport and Exercise Medicine is a selection programme.

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**.

Duration of programme

The programme extends over a minimum period of two years on a part-time basis.

Programme description

Sport and Exercise Medicine (SEM) is an emerging medical specialty currently in the process of gaining recognition by the Health Professions Council of South Africa. SEM has three major components:

- prevention, diagnosis, management and rehabilitation of exercise related injuries;
- medical conditions associated with participation in sport and exercise; and
- prevention and rehabilitation of chronic lifestyle related diseases.

This part-time programme consists of coursework, clinical work and a research assignment. Reading and study material are provided by means of e-mail and suggested text books. You must attend three week-long practical sessions per year at Stellenbosch University. Practical instruction consists of lectures, tutorials, clinical case discussions and seminars.

Programme outcomes

On completion of this programme, you will:

- have a thorough understanding of the effects of physical activity on the human body and be able to emphasise how this knowledge can be applied to the management of common medical problems in physically active individuals;
- have the requisite knowledge to prevent, treat and rehabilitate injuries and other medical problems arising from exercise and sport;
- have the requisite knowledge to assist in the rehabilitation of those suffering from various chronic illnesses related to lifestyle factors;
- be able to promote the physical health, well-being and productivity of the community; and
- have the requisite knowledge of research methodology, including statistics and critical scientific thinking to enable you to complete a research assignment.

Programme content

The programme consists of structured modules with a total of 120 credits and a research assignment of 60 credits.

The research work for the Research Assignment module can be conducted during the first two years of study while you are following the other four modules. You must, however, complete the research assignment by the end of the third year of study. Only in exceptional cases will you be permitted to continue with work for the research assignment after the third year of study.

Basic Sciences in SEM	872(30)
Exercise-related Injuries in SEM	873(45)
General SEM	871(30)
Research Assignment	874(60)
SEM in Special Populations	875(15)

*Assessment and examination***Basic Sciences in SEM module**

- Class tests and assignments done in the course of the first year constitute 30% of the final mark for the module.
- A written examination comprising two papers is completed at the end of the first year and constitutes 70% of the final mark.
- You must obtain a final mark of 50% or more to gain access to the second year of study.

Exercise-related Injuries in SEM, General SEM and SEM in Special Populations modules

- Class tests, assignments and seminars over the course of the year comprise the year mark for each of the modules Exercise-related Injuries in SEM, General SEM and SEM in Special Populations.
- An examination is written in October/November.
- A clinical examination (clinical cases) and an objective structured clinical examination (OSCE) are also conducted.
- The final mark for each module is calculated as follows:
 - Class tests, assignments and seminars (year mark) – 30%
 - Written examination – 30%
 - Clinical examination and OSCE – 40%
- You must obtain 50% or more for each component of the clinical examination (clinical cases) and OSCE.

Research assignment

- One internal and one external examiner assess the research assignment.
- You must pass the research assignment with 50% or more to successfully complete the Research Assignment module.

Enquiries

Programme leader: Prof EW Derman

Tel: (021) 938 9827 E-mail: ewderman@sun.ac.za

Administrative assistant: Mrs LM Deck

Tel: (021) 938 9801 E-mail: lmdeck@sun.ac.za

5.3.2.23. MSc in Sport Science*Specific admission requirements*

- A bachelor's or an honours degree with an average of at least 60% that Senate has approved for this purpose.
- If you have attained a standard of competence in your particular field of study that Senate considers to be adequate for such purpose, you can be admitted to the programme.

Application procedure and closing date

Apply in writing to the departmental chair or Registrar. Final admission to the degree programme rests with the Postgraduate Programme Committee of the Department of Sport Science and is subject to available resources in the Department. If necessary, supplementary study may be required by the Department.

Programme structure

The programme consists of a 100% thesis on a topic which has been approved by the Postgraduate Programme Committee and the supervisor.

Assessment and examination

On completion of your study, your thesis is assessed both internally and externally. The thesis counts 100% towards the final mark and you must obtain 50% to obtain the degree.

Enquiries

Programme leader: Prof E Terblanche

Tel: 021 808 2742 E-mail: et2@sun.ac.za

5.3.3 Master of Philosophy

The programme Master of Philosophy in the Faculty consists of subspecialty training and structured and thesis programmes.

Programmes for subspecialty training

These programmes offer specialists in Internal Medicine, and Obstetrics and Gynaecology the opportunity to qualify as subspecialists in one of the various subspecialty fields within these disciplines.

General admission requirements for subspecialty programmes

You can apply for the subspecialty programmes in the respective disciplines if you meet the following requirements:

- The MMed degree in Internal Medicine or Obstetrics and Gynaecology; and
- Registration as specialist with the Health Professions Council of South Africa (HPCSA).

See each programme for the admission requirements that apply specifically to a particular programme.

Clinical experience

If you want to register for one of these programmes at the University, you must be appointed in one of the approved HPCSA training numbers as awarded to the Faculty and occupy a senior registrar post in service of the Western Cape Provincial Department of Health for the full duration of your training.

Assessment and examination

The standard exit examination for these programmes is a certificate examination of the Colleges of Medicine of South Africa (CMSA).

Structured and thesis programmes

These programmes are advanced research-based programmes. In some programmes candidates must pass theoretical modules and successfully complete a research assignment, and in other programmes a research thesis that meet the requirements of the University must be submitted.

5.3.3.1. MPhil in Addiction Psychiatry*Specific admission requirements*

- One of the following qualifications:
 - a Master of Medicine in Psychiatry;
 - a fellowship of the College of Psychiatrists of South Africa; or
 - an equivalent qualification approved by Senate for this purpose.
- Registration as medical practitioner in the category independent practice/specialist psychiatrist with the Health Professions Council of South Africa.

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**.

Duration of programme

The programme extends over two years.

Programme description

The teaching and learning strategy in each module is determined by the nature of the subject. Modules are presented within the framework of a student-centred approach with the purpose of stimulating critical thinking. The programme uses didactical methods, interactive learning, group sessions and supervised clinical work. Independent learning is encouraged. The research assignment is completed under the guidance of a supervisor.

*Programme content***First year**

Ethics of Addiction	871(5)
Assessment of Substance Misuse	871(10)
Clinical Addiction Psychiatry	871(70)
Neurobiology of Chemical Addiction	871(5)

Second year

Service Management	871(5)
Pharmacology of Chemical Dependence	871(5)
Research Methodology	871(5)
Public Health Approach to Addiction	871(5)
Psychosocial Interventions	871(10)
Research Assignment	871(60) *

* The research assignment is completed over the course of the two years.

Assessment and examination

- Flexible assessment is applicable to all modules. Successful completion of a module is subject to satisfactory participation.
- If you do not show adequate clinical and/or professional progress (as outlined in the module/programme guide), you will be afforded an opportunity to remediate your inadequate clinical and/or professional conduct or performance. If you fail to remediate, you may only repeat the module or continue with the programme on recommendation of the departmental programme committee and the approval of the Faculty Board.
- You must pass an exit examination on all modules at the end of the programme with a minimum mark of 50%. If you fail the exit examination, you may take a supplementary examination. If you fail the second exit examination, you may, on recommendation of the Postgraduate Programme Committee and approval of the Faculty Board, be denied the right to qualify for the MPhil in Addiction Psychiatry.
- You must submit a satisfactory research assignment demonstrating your ability to conduct an independent scientific investigation, to interpret the results and to make deductions from the results.
- The research assignment is assessed according to the guidelines of Stellenbosch University and a minimum of 50% must be achieved to pass the research assignment.
- The final mark is calculated according to the credit weights of the exit examination (120 marks) and the research assignment (60 marks).
- You must obtain a final mark of at least 50% to pass the programme.

Enquiries

Programme leader: Dr L Weich

Tel: 021 940 4453 E-mail: lizew@sun.ac.za

5.3.3.2. MPhil in Adult Critical Care*Specific admission requirements*

At least one of the following qualifications:

- FCA (SA)/FCEM (SA)/FCP (SA)/FCOG (SA)/FCS (SA);
- MMed (Anaesthesiology/Emergency Medicine/Internal Medicine/Obstetrics and Gynaecology/Surgery); or
- an equivalent specialist qualification

Application procedure and closing date

You must apply for a subspecialty registrar post in service of the Western Cape Department of Health if you want to register for the programme. If you are successful, you will be admitted to the MPhil in Adult Critical Care.

Duration of the programme

The programme extends over two years.

Programme content

Both modules are compulsory and run concurrently instead of consecutively.

Clinical Critical Care	872(135)
Assignment	871(45)

Assessment and examination

- To successfully complete the Clinical Critical Care module, your participation must be satisfactory while working as a subspecialty registrar in the Department of Anaesthesiology and Critical Care. Furthermore, you must achieve a pass mark of at least 50% in the Cert Critical Care(SA) Anaes examination of the CMSA.
- You will be assessed regularly as part of the flexible assessment strategy and you must keep a portfolio/logbook of your clinical exposure and experience with procedures.
- You must register a research protocol for the Critical Care Research Project module within six months of registration and complete the research assignment within two years of registration.
- The assignment should be submitted in the form of an article ready for publication.
- The modules contribute to the final mark as follows:
 - Critical Care Research Project – 25%, and
 - Clinical Critical Care – 75%.

Enquiries

Programme leader: Dr N Ahmed

Tel: 021 938 6036 E-mail: nadiya@sun.ac.za

5.3.3.3. MPhil in Cancer Science*Specific admission requirements*

- One of the following qualifications at NQF level 8:
 - an MBChB or equivalent degree;
 - a four-year professional bachelor's degree in a health-related discipline;
 - a BScHons degree of this or another recognised university; or
 - an equivalent qualification approved by Senate.
- If you obtained your qualifications at non-South African institutions, these qualifications will be evaluated for comparability by the Postgraduate Office (Stellenbosch Campus) to determine if you are eligible to be considered for admission to the programme.
- Mathematics at National Senior Certificate (NSC) level, computer literacy and fluency in written and spoken English. If you, as an international candidate, are from a non-English speaking country, you must submit official documentary evidence with your application of your competence in English. This may include, among other things:
 - the results of the IELTS test with a minimum IELTS score of 6,5;
 - the results of the TOEFL test with a minimum TOEFL score of 550 (paper based) or 213 (computer based), preferably with a TWE score of 4,5; and/or
 - proof and results of any English courses attended (eg. English for Medical Students/Englisch für Mediziner).

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**.

Candidates are selected on academic merit and all applications are reviewed by a selection committee. Only a limited number of students are admitted to the programme.

Duration of programme

The programme is presented on a full-time basis and extends over a minimum period of 18 months.

Programme description

The MPhil in Cancer Science is an interdisciplinary programme focused on providing an in-depth understanding of cancer from a molecular, environmental, public health and treatment perspective. It is aimed at students wanting to broaden their understanding of the complexities concerning cancer, and pursue cancer or cancer-related research with the aim of reducing its burden on humanity. The programme is intended to deliver theoretical and practical insights needed to address the increasing incidence of cancer and provide a pathway for postgraduate students who wish to pursue a cancer research career with a view to making an impact on the disease incidence and mortality. The hallmarks of cancer are extremely complex and given the depth of research that is required, this programme will mould a skill set designed to advance current knowledge about this disease and tackle key problem areas through research.

Modules are offered using face-to-face contact sessions (lectures, tutorials, and site visits where appropriate) and independent study. Most modules consist of 50% contact time and 50% independent study (unless otherwise specified).

Programme content

The programme consists of modules with a total of 120 credits and a research assignment of 60 credits. You must complete all modules.

First year

Biostatistics I	875(12)
Biostatistics II	875(12)
Cancer Epidemiology	873(12)
Infections and Cancer	875(12)
Introduction to Health Systems and Public Health	875(12)
Molecular Basis of Cancer and Tumour Physiology	871(12)
Nutrition and Cancer	872(12)
Principles of Cancer Therapy	881(12)
Qualitative Research Methods	875(12)
Research Proposal Writing and Grantsmanship	875(12)

Second year

Assignment (Cancer Science)	884(60)
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Assessment and examination

Modules

- Formative and summative assessment of modules (120 credits) will be conducted by means of written examinations, oral presentations, written assignments and participation in discussions. Formative assessments contribute 50% and summative assessments 50% to the module mark.
- You must obtain a subminimum of 45% for formative as well as summative assessments, and an overall pass mark of 50% for each module.
- If you achieve less than the subminimum of 45% for formative or summative assessment in a module, or less than the overall pass mark of 50%, you fail the module.
- If you fail a module more than once, you may be denied the right to reregister for the programme.
- You must participate successfully and integrate knowledge in projects, reports and assignments.
- Strict deadlines for assignments are enforced. If you submit an assignment after the due date and time, it will not be assessed. University guidelines relating to misconduct and dishonesty will apply.

Research assignment

- You must submit a satisfactory assignment demonstrating your ability to conduct an independent scientific investigation, interpret the results and draw conclusions from the results. The assignment is assessed according to the guidelines of the University.
- You must submit the completed research assignment in the prescribed format. The assignment will be assessed by internal as well as external examiners.
- You will be allowed to register for the research assignment for a maximum of three years. If you fail to complete the research assignment within this time, your performance will be officially reviewed by the Programme Committee of the Department of Global Health, and you may be denied the right to reregister for the programme.

Enquiries

Programme leader: Prof V Sewram

Tel: 021 927 7001 E-mail: vsewram@sun.ac.za

Website: <https://aci.org.za/>

5.3.3.4. MPhil in Cardiology (subspecialty programme)

Specific admission requirements

At least one of the following qualifications:

- FCP (SA);
- MMed (Int); or
- an equivalent specialist qualification.

Application procedure and closing date

You must apply for a senior registrar post in service of the Western Cape Department of Health if you want to register for this programme. If you are successful, you will be admitted to the MPhil in Cardiology.

Duration of programme

The programme extends over three years.

Programme content

Both modules are compulsory and run concurrently instead of consecutively.

Clinical Cardiology	872(135)
Assignment	871(45)

Assessment and examination

- To successfully complete the Clinical Cardiology module, your participation must be satisfactory while working as a senior registrar in the Division of Cardiology. Furthermore, you must achieve a pass mark of at least 50% in the Cert Cardiology (SA) examination of the CMSA.
- You will be assessed regularly as part of the flexible assessment strategy and you must keep a portfolio/log-book of your clinical exposure and experience with procedures.
- You must register the research protocol within six months of registration and complete the research assignment within three years of registration.
- The assignment must be submitted in the form of an article ready for publication. Successful completion of this module is a requirement for admission to the Cert Cardiology (SA) examination of the CMSA.
- The modules contribute to the final mark as follows:
 - Clinical Cardiology – 75%; and
 - Research Assignment – 25%.

Enquiries

Programme leader: Prof AF Doubell

Tel: 021 938 4400 E-mail: afd@sun.ac.za

5.3.3.5. MPhil in Child and Adolescent Psychiatry*Specific admission requirements*

- One of the following qualifications:
 - a Master of Medicine in Psychiatry;
 - a Master of Clinical Psychology;
 - a fellowship of the College of Psychiatrists of South Africa; or
 - an equivalent qualification approved by Senate for this purpose.
- Registration as specialist psychiatrist/clinical psychologist with the Health Professions Council of South Africa.

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**.

Duration of programme

The programme extends over two years. You must work in clinical practice with predominantly child and adolescent clientele.

Programme description

The teaching and learning strategy in each module is determined by the nature of the subject. Modules are presented within the framework of a student-centred approach with the purpose of stimulating critical thinking. The programme uses didactic methods, interactive learning, group sessions and supervised clinical work. Independent learning is encouraged. The research assignment is completed under the guidance of a supervisor.

*Programme content***First year**

Ethics	873(5)
Ethics and Legislation	871(5)
Developmental Psychiatry	871(10)
Clinical Child Psychiatry	871(40)

Second year*Compulsory modules*

Consultation/Liaison Psychiatry	871(15)
Research Methodology and Project	871(70)

Elective modules

Substance Abuse in Young Patients	871(15)
Forensic Child Psychiatry	871(15)
Infant and Toddler Mental Health	871(15)
Advanced Paediatric Psychopharmacology	871(10)
Paediatric Neuropsychology	871(10)
Advanced Child Psychotherapy	871(10)
Child Mental Health Service Development	871(10)

Assessment and examination

- Flexible assessment is applicable to all modules and you must pass each module with a minimum mark of 50%.
- You must keep a log-book as record of clinical exposure.
- If you fail a module, you may repeat the assessment which has contributed to the final mark for the module. Whether the topic and nature of the assessment remain unchanged or you are required to take an amended assessment, is left to the discretion of the module chair.
- If you fail a theory module, you may repeat it. If you, however, fail the module for the second time, you may be denied the right to attempt the module again on recommendation of the Faculty Board.
- If you do not show adequate clinical and/or professional progress (as outlined in the module/programme guide), you will be afforded an opportunity to remediate your inadequate clinical and/or professional conduct or performance. If you fail to remediate, you may only repeat the module or continue with the programme on recommendation of the departmental programme committee and the approval of the Faculty Board.
- You must submit a satisfactory research assignment demonstrating your ability to conduct an independent scientific investigation, to interpret the results and to make deductions from the results.
- The research assignment is assessed according to the guidelines of Stellenbosch University and a minimum of 50% must be achieved to pass.
- The final mark is calculated according to the credit weights of the individual modules.
- You must obtain a final mark of at least 50% to pass the programme.

Enquiries

Programme leader: Dr SM Hawkrige

Tel: 021 938 9174 E-mail: smh@sun.ac.za

5.3.3.6. MPhil in Communicable Diseases*Specific admission requirements*

- An honours degree in a health-related field, including psychology or social science, as approved by Senate for such purpose; or
- A four-year bachelor's degree with a significant contribution to a research publication in the field of communicable diseases that is primarily equivalent to an honours degree, and that has been approved by Senate for such purpose.
- This method of obtaining a master's degree is meant for students who have already demonstrated a high level of knowledge and skill in research with regard to one or more infectious disease problems.

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**.

Duration of programme

The programme extends over two years.

Programme content

The subject of the thesis will be determined in consultation with relevant experts in the field and in conjunction with the head of the Division of Health Systems and Public Health. Moderation and supervision will take place according to the programme for the Master of Philosophy, as adopted by the Faculty Board. The programme is available from the head of the Division of Health Systems and Public Health.

Thesis (Communicable Diseases)	871(180)
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Assessment and examination

- You will be assessed on the basis of an acceptable written thesis and a scientific oral presentation, followed by questions from a panel of internal and external examiners.

Enquiries

Programme leader: Prof L Dudley

Tel: 021 938 9375 E-mail: rlm@sun.ac.za

5.3.3.7. MPhil in Community Mental Health

Specific admission requirements

One of the following qualifications:

- Master of Social Work/Clinical Psychology/Nursing/Occupational Therapy;
- MBChB degree; or
- MMed (Psych)/exit examination of the Colleges of Medicine of South Africa.

Registration with the relevant professional council in South Africa as:

- medical practitioner in the category independent practice,
- social worker,
- clinical psychologist,
- registered nurse, or
- occupational therapist.

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**.

Duration of programme

The programme extends over two years.

Programme description

The teaching and learning strategy in each module is determined by the nature of the subject. Modules are presented within the framework of a student-centred approach with the purpose of stimulating critical thinking. The programme uses didactical methods, interactive learning, group sessions and supervised clinical work. Independent learning is encouraged. The research assignment is completed under the guidance of a supervisor.

Programme content

First year

Ethics	872(5)
Research Methodology	871(5)
Community Mental Health	871(55)

Second year

Compulsory modules

Social Psychiatry	871(5)
Cultural Psychiatry	871(5)
Public Psychiatry	871(5)
Research Assignment	871(60) *

* The research assignment is completed over the course of the two years.

Elective modules

Choose any two modules.

Community Psychology	871(20)
Psycho-social Rehabilitation	871(20)
Community Psychiatry	871(20)

Assessment and examination

- Flexible assessment is applicable to all modules and a minimum final mark of 50% is required to pass.
- You will be assessed regularly as part of the flexible assessment strategy and you must keep a log-book as record of your clinical exposure.
- If you fail a module, you may repeat the assessment which has contributed to the final mark for the module. Whether the topic and nature of the assessment remain unchanged or you are required to take an amended assessment, is left to the discretion of the module chair.
- If you fail a module, you may repeat it. If you, however, fail the module for the second time, you may be denied the right to attempt the module again on recommendation of the Faculty Board.
- If you do not show adequate clinical and/or professional progress (as outlined in the module/programme guide), you will be afforded an opportunity to remediate your inadequate clinical and/or professional conduct or performance. If you fail to remediate, you may only repeat the module or continue with the programme on recommendation of the departmental programme committee and the approval of the Faculty Board.

- You must submit a satisfactory research assignment demonstrating your ability to conduct an independent scientific investigation, to interpret the results and to make deductions from the results. The research assignment is assessed according to the guidelines of Stellenbosch University and you must achieve a mark of at least 50% to pass.
- The final mark is calculated according to the credit weights of the individual modules.
- You must obtain a final mark of at least 50% to pass the programme.

Enquiries

Programme leader: Dr C Schumann

Tel: 021 938 9116 E-mail: Cornelia.Schumann@westerncape.gov.za

5.3.3.8. MPhil in Developmental Paediatrics (subspecialty programme)

Specific admission requirements

At least one of the following qualifications:

- FC Paed (SA);
- MMed (Paed); or
- an equivalent specialist qualification.

Application procedure

You must apply for a senior registrar post in service of the Western Cape Department of Health (or alternatively fund yourself for the two years of study) if you want to register for this programme. If you are successful, you will be admitted to the MPhil in Developmental Paediatrics.

Duration of programme

The programme extends over 2 years.

Programme content

The modules run concurrently and all are compulsory.

Clinical Developmental Paediatrics	872(135)
Research Assignment	871(45)

Assessment and examination

Successful completion of the Clinical Developmental Paediatrics module requires satisfactory participation whilst working as a senior registrar in the Division of Developmental Paediatrics, as well as a pass mark of at least 50% in the Cert Dev Paed (SA) examination of the CMSA. You will be assessed regularly as part of the flexible assessment strategy and you must keep a portfolio/log-book of clinical activities, relevant courses attended, experience using formal developmental assessment tools and knowledge of relevant services.

You must register the research protocol within six months after you have registered for the programme and complete the research assignment within two years of registration. The research assignment must be submitted in the form of an article for publication. Successful completion of the Research Assignment module is a requirement for admission to the Cert Dev Paed (SA) examination of the CMSA.

The modules contribute to the final mark as follows:

- Clinical Developmental Paediatrics 75%; and
- Research Assignment 25%.

Enquiries

Programme leader: Prof Priscilla Springer

Tel: 021 938 9219 E-mail: springer@sun.ac.za

5.3.3.9. MPhil in Emergency Medicine

Specific admission requirements

- A qualification on at least NQF level 8.
- Registration with the relevant South African professional body (such as the Health Professions Council of South Africa [HPCSA] or the SA Nursing Council).
- You must be able to converse and write in medical English, and pass a basic computer literacy examination provided by the Division of Emergency Medicine once you have been shortlisted.
- For the Clinical Emergency Care Stream, you must have at least two years' emergency care experience after your internship and you must have successfully completed two of the Advanced Life Support Courses (ACLS, APLS, PALS, ATLS, FEC).

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**.

The Clinical Emergency Care, and Patient Safety and Clinical Decision-making streams will be open to medical practitioners, nurses and paramedics. The African Emergency Care stream will be open to medical practitioners only.

Duration of programme

The programme extends over two years on a part-time basis.

Programme description

Non-communicable diseases are claiming ever bigger health tolls, especially in sub-Saharan Africa. Emergency Medicine is still a relatively new speciality with very few specialists in South Africa, and even fewer on the rest of the continent. In addition, the Emergency Centre is the entry point of the sickest individuals into the health care system, resulting in the bulk of the care currently being delivered by non-specialised staff. This MPhil programme is aimed at improving the skills of doctors, paramedics and nurses to optimise care in the emergency environment.

The programme is completed by means of coursework and a research assignment/thesis.

There are three main streams:

- Clinical Emergency Care for doctors, nurses and paramedics in emergency care, including a 60-credit assignment;
- African Emergency Care for qualified doctors, including a 90-credit thesis; and
- Patient Safety and Clinical Decision-making for doctors, nurses and paramedics. Two options are available: Option A (with a 60-credit assignment) and Option B (with a 90-credit thesis).

Programme content

Main stream A – Clinical Emergency Care

First year

Compulsory modules

Clinical Research Methods I	871(15)
Clinical Emergency Care I	871(15)
Clinical Emergency Care II	871(15)

Elective modules

Choose two of the following modules.

Disaster Medicine	871(15)
Education and Training in Emergency Care	871(15)
Ambulatory Care and Travel Medicine	871(15)
Management and Leadership	871(15)
Disaster Medical Response Training	871(15)

Second year

Compulsory modules

Clinical Research Methods II	871(15)
Health Care Systems	871(15)
Resuscitation and Critical Care	871(15)
Assignment (Emergency Medicine)	871(60) *

* The research assignment is completed over the course of the two years.

Main stream B – African Emergency Care

First year

Compulsory modules

Clinical Research Methods I	871(15)
African Emergency Care	871(15)

Elective modules

Choose two of the following modules.

Disaster Medicine	871(15)
Education and Training in Emergency Care	871(15)
Management and Leadership	871(15)
Disaster Medical Response Training	871(15)

Second year*Compulsory modules*

Clinical Research Methods II	871(15)
Health Care Systems	871(15)
Thesis (Emergency Medicine)	872(90) *

* The thesis is completed over the course of the two years.

Main stream C – Patient Safety and Clinical Decision-making (Option A)**First year***Compulsory modules*

Clinical Research Methods I	871(15)
Health Care Systems	871(15)
Patient Safety and Flow	871(15)
Critical Thinking in Emergency Care	871(15)

Second year*Compulsory modules*

Clinical Research Methods II	871(15)
Continuous Quality Improvement	871(15)
Education and Training in Emergency Care	871(15)
Management and Leadership	871(15)
Assignment (Emergency Medicine)	871(60) *

* The research assignment is completed over the course of the two years.

Main stream C – Patient Safety and Clinical Decision-making (Option B)**First year***Compulsory modules*

Clinical Research Methods I	871(15)
Health Care Systems	871(15)
Patient Safety and Flow	871(15)
Critical Thinking in Emergency Care	871(15)

Second year*Compulsory modules*

Clinical Research Methods II	871(15)
Thesis (Emergency Medicine)	872(90) *

* The thesis is completed over the course of the two years.

Elective modules

Choose one of the following modules.

Education and Training in Emergency Care	871(15)
Continuous Quality Improvement	871(15)
Management and Leadership	871(15)

Assessment and examination

- Satisfactory completion of a self-reflection portfolio of clinical experience submitted to the Division at specified times, as outlined in portfolio guidelines.
- Depending on the module combinations, you may be required to pass certain first-year modules before being allowed to enrol in second-year modules.
- Assessment is done by means of assignments, skills sessions, tests and examinations, among others.
- Flexible assessment is applicable to all modules.
- You must pass each module with a minimum mark of 50% for both formative and summative assessment.
- You must submit a satisfactory research assignment demonstrating your ability to conduct an independent scientific investigation, to interpret the results and to make deductions from the results.
- The research assignment is assessed according to the guidelines of Stellenbosch University and a minimum of 50% must be achieved to pass.
- The final mark is calculated according to the credit weights of the individual modules.
- You must obtain a final mark of at least 50% to pass the programme.

Enquiries

Programme leader: Prof LA Wallis

Tel: 021 944 9226 E-mail: leew@sun.ac.za

5.3.3.10. MPhil in Endocrinology (subspecialty programme)*Specific admission requirements*

At least one of the following qualifications:

- FCP (SA);
- MMed (Int); or
- an equivalent specialist qualification.

Application procedure and closing date

You must apply for a senior registrar post in service of the Western Cape Department of Health if you want to register for this programme. If you are successful, you will be admitted to the MPhil in Endocrinology.

Duration of programme

The programme extends over two years.

Programme content

All modules are compulsory and run concurrently instead of consecutively.

Clinical Endocrinology	872(135)
Assignment	871(45)

Assessment and examination

- To successfully complete the Clinical Endocrinology module, your participation must be satisfactory while working as a senior registrar in the Division of Endocrinology. Furthermore, you must achieve a pass mark of at least 50% in the Cert Endocrinology (SA) examination of the CMSA.
- You will be assessed regularly as part of the flexible assessment strategy and you must keep a portfolio/log-book of your clinical exposure and experience with procedures.
- You must register the research protocol within six months of registration and complete the research assignment within two years of registration.
- The assignment must be submitted in the form of an article ready for publication. Successful completion of this module is a requirement for admission to the Cert Endocrinology (SA) examination of the CMSA.
- The modules contribute to the final mark as follows:
 - Clinical Endocrinology – 75%; and
 - Research Assignment – 25%.

Enquiries

Programme leader: Dr Marli Conradie-Smit

Tel: 021 938 9255 E-mail: marlic@sun.ac.za

5.3.3.11. MPhil in Family Medicine*Specific admission requirements*

- An MBChB degree or an equivalent qualification approved by Senate for this purpose.
- Registration as medical practitioner with the Health Professions Council of South Africa, or the equivalent in your country of practice.

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**.

The MPhil programme in Family Medicine will only be offered if at least six candidates, who are able to attend the obligatory contact session at the beginning of the first year of the programme, have registered for the programme.

Duration of programme

The programme extends over two years.

Programme description

The teaching and learning strategy in each module is determined by the nature of the subject. Modules are presented within the framework of a student-centred approach with the purpose of stimulating critical thinking. The programme uses didactical methods, interactive learning, group sessions and online distance learning. Independent learning is encouraged. You must attend the contact sessions.

The research project is completed under the guidance of a supervisor.

*Programme content***First year**

Research Capacity Development	875(30)
Principles of Family Medicine	817(20)

Second year

Thesis (Family Medicine)	875(90) *
Teaching and Learning in Family Medicine	812(20)
Leadership and Clinical Governance	873(20)

* The thesis is completed over the course of the two years.

Assessment and examination

- Flexible assessment is applicable to all modules and you must pass each module with a minimum mark of 50%.
- You must submit a satisfactory research thesis demonstrating your ability to conduct an independent scientific investigation, to interpret the results and to make deductions from the results.
- The research thesis is assessed according to the guidelines of Stellenbosch University and a minimum of 50% must be achieved to pass the thesis.
- The final mark is calculated according to the credit weights of the individual modules.
- You must obtain a final mark of at least 50% to pass the programme.

Enquiries

Programme leader: Dr Ts'epo Motsohi

Programme administrator: Ms N Cordon-Thomas

Tel: 021 938 9168 E-mail: nicolec@sun.ac.za

Website: www.sun.ac.za/fammed

5.3.3.12. MPhil in Gastroenterology and Hepatology (subspecialty programme)*Specific admission requirements*

At least one of the following qualifications:

- FCP (SA);
- MMed (Int); or
- an equivalent specialist qualification.

Application procedure and closing date

You must apply for a senior registrar post in service of the Western Cape Department of Health if you want to register for this programme. If you are successful, you will be admitted to the MPhil in Gastroenterology and Hepatology.

Duration of programme

The programme extends over two years.

Programme content

All modules are compulsory and run concurrently instead of consecutively.

Clinical Gastroenterology and Hepatology	872(135)
Assignment	871(45)

Assessment and examination

- To successfully complete the Clinical Gastroenterology and Hepatology module, your participation must be satisfactory while working as a senior registrar in the Division of Gastroenterology and Hepatology. Furthermore, you must achieve a pass mark of at least 50% in the Cert Gastroenterology(SA) Phys examination of the CMSA.
- You will be assessed regularly as part of the flexible assessment strategy and you must keep a portfolio/log-book of your clinical exposure and experience with procedures.
- You must register the research protocol within six months of registration and complete the research assignment within two years of registration.
- The assignment must be submitted in the form of an article ready for publication. Successful completion of this module is a requirement for admission to the Cert Gastroenterology(SA) Phys examination of the CMSA.
- The modules contribute to the final mark as follows:
 - Clinical Gastroenterology and Hepatology – 75%; and
 - Research Assignment – 25%.

Enquiries

Programme leader: Prof CJ van Rensburg

Tel: 021 938 4336 E-mail: c.j.vr@telkomsa.net

5.3.3.13. MPhil in Gynaecological Oncology (subspecialty programme)*Specific admission requirements*

At least one of the following qualifications:

- FCOG (SA);
- MMed (O&G); or
- an equivalent qualification for registration as a specialist in South Africa.

Application procedure and closing date

You must apply for a senior registrar post in service of the Western Cape Department of Health if you want to register for this programme. If you are successful, you will be admitted to the MPhil in Gynaecological Oncology.

Duration of programme

The programme extends over two years on a full-time basis and four years on a part-time basis.

Programme content

Both modules are compulsory and run concurrently instead of consecutively.

Clinical Gynaecological Oncology	872(135)
Assignment (Gynaecological Oncology)	871(45)

Assessment and examination

- To successfully complete the Clinical Gynaecological Oncology module, your participation must be satisfactory while working as a specialist in the Gynaecological Oncology Unit of the Department of Obstetrics and Gynaecology. Furthermore, you must achieve a pass mark of at least 50% in the Cert Gynaecological Oncology (SA) examination of the CMSA.
- You will be assessed regularly as part of the flexible assessment strategy and you must keep a portfolio/log-book of your clinical exposure and experience with procedures.
- If you are a full-time student, you must register the research protocol within three months of registration as an MPhil student and complete the research assignment within 21 months of registration.
- If you are a part-time student, you must register the research protocol within six months of registration as an MPhil student and complete the research assignment within 42 of registration.
- The assignment must be submitted in the form of an assignment or an article ready for publication. Successful completion of this module is a requirement for admission to the Cert Gynaecological Oncology (SA) examination of the CMSA.
- The modules contribute to the final mark as follows:
 - Clinical Gynaecological Oncology – 75%; and
 - Research Assignment – 25%.

Enquiries

Programme leader: Prof MH Botha

Tel: 021 938 5696 E-mail: mhbotha@sun.ac.za

5.3.3.14. MPhil in Haematology (subspecialty programme)*Specific admission requirements*

- At least one of the following qualifications:
 - FCP (SA);
 - MMed (Int); or
 - an equivalent specialist qualification.

Application procedure and closing date

You must apply for a senior registrar post in service of the Western Cape Department of Health if you want to register for this programme. If you are successful, you will be admitted to the MPhil in Haematology.

Duration of programme

The programme extends over two years.

Programme content

Both modules are compulsory and run concurrently instead of consecutively.

Clinical Haematology	872(135)
Assignment	871(45)

Assessment and examination

- To successfully complete the Clinical Haematology module, your participation must be satisfactory while working as a senior registrar in the Division of Haematology. Furthermore, you must achieve a pass mark of at least 50% in the Cert Haematology (SA) examination of the CMSA.
- You will be assessed regularly as part of the flexible assessment strategy and you must keep a portfolio/log-book of your clinical exposure and experience with procedures.
- You must register the research protocol within six months of registration and complete the research assignment within two years of registration.
- The assignment must be submitted in the form of an article ready for publication. Successful completion of this module is a requirement for admission to the Cert Haematology (SA) examination of the CMSA.
- The modules contribute to the final mark as follows:
 - Clinical Haematology – 75%; and
 - Research Assignment – 25%.

Enquiries

Programme leader: Dr F Bassa

Tel: 021 938 9326 E-mail: fbassa@sun.ac.za

5.3.3.15. MPhil in Health Professions Education*Specific admission requirements*

- a four-year (or longer) bachelor's degree in Health Sciences (NQF level 8) and currently actively involved in teaching at a Health Sciences higher education institution.

or

- a three-year degree or diploma in Education or Social Sciences and a Postgraduate Diploma in Education, Higher Education or Health Sciences Education (NQF level 8) **or** an honours degree in Education or Social Sciences and currently actively involved in teaching at a Health Sciences higher education institution.

To be admitted to the thesis programme you must meet the above-mentioned requirements, submit a complete research protocol to the satisfaction of the Programme Committee and provide proof of sufficient research experience in education or social sciences. If you are unable to provide proof of research experience in education or social sciences, the successful completion of the following module of the structured programme is an additional requirement:

- Research Methodology in Health Professions Education

Application procedure and closing date

Apply in writing by **30 September** of the previous year. Your application has to be accompanied by a *curriculum vitae* and a written motivation. Only a limited number of students can be admitted annually to the first year of the programme. Admission to the programme therefore happens on the basis of the sequence in which qualifying applications are received before the closing date for applications.

Duration of programme

The programme extends over two years.

Programme description

The programme consists of two streams, namely the structured programme and the thesis programme.

The programme is presented by means of technology-mediated teaching and learning, with one contact session per year. If you are following the structured programme, you must attend the contact sessions. If, however, you have been admitted to the thesis programme, the contact sessions are optional, except if you are unable to submit proof of sufficient research experience as indicated above. In that instance, you must attend the contact sessions for the Research Methodology in Health Professions Education module and pass the module.

The programme is research based and aims to equip you to understand, critically evaluate and apply the following within teaching and learning contexts in health professions education:

- contemporary and appropriate educational approaches;
- principles of professional practice, with specific reference to ethics, reflection and social responsiveness; and
- findings derived from international and particularly African research in health professions education within the context of diversity and varying levels of resources.

Programme content

Structured programme

First year

Compulsory modules

Teaching and Learning in Health Professions Education	882(25)
Curriculum Development and Analysis in Health Professions Education	871(15)
Assessment in Health Professions Education	871(15)
Research Methodology in Health Professions Education	885(20)

Second year

Compulsory modules

Integrated Portfolio for Health Professions Education	886(15)
Leadership in Health Professions Education	892(15)
Research Assignment	871(60)

Elective modules

Staff Development in Health Professions Education	893(15)
Clinical Skills Development	891(15)

Thesis programme

Thesis (HPE)	895(180)
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Assessment and examination

Structured programme

- Flexible assessment is applicable to all modules and you must pass each module with a minimum mark of 50%.
- You must submit a satisfactory research assignment demonstrating your ability to conduct an independent scientific investigation, to interpret the results and to draw conclusions from the results.
- The research assignment is assessed according to the guidelines of Stellenbosch University and a mark of at least 50% must be achieved to pass.
- The final mark is calculated according to the credit weights of the individual modules. You must obtain a final mark of at least 50% to pass the programme.
- Failing of modules:
 - If you fail a module, you will be granted the opportunity to once again hand in the assignment(s) which has contributed to the final mark for the module. Whether the topic and nature of the assignment(s) remain unchanged or whether a new assignment(s) is required is left to the discretion of the module chair.
 - The new assignment(s) must be submitted before the end of November of the year in which the module is taken. If you miss the due date, you will have to register for the module again in the following year.
 - If you fail a module more than once, you will not be allowed to continue with the programme.

Thesis programme

- You must submit a satisfactory research thesis demonstrating your ability to conduct an independent scientific investigation, to interpret the results and to draw conclusions from the results. This must be at a more advanced level than required for the research assignment of the structured programme.
- The thesis is assessed according to the guidelines of Stellenbosch University and you must achieve a mark of at least 50% to pass.

Enquiries

Programme leader: Dr E Archer

Tel: 021 938 9364 E-mail: elizea@sun.ac.za

Programme administrator: Mrs LH Louw

Tel: 021 938 9047 E-mail: lhl@sun.ac.za

5.3.3.16. MPhil in Health Systems

Specific admission requirements

- One of the following qualifications at NQF level 8:
 - an MBChB or equivalent degree;
 - a four-year professional bachelor's degree in a health-related discipline;
 - a bachelor honours degree of this University or another recognised university;
 - an honours degree in social sciences; or
 - an equivalent qualification approved by Senate for this purpose.
- If you obtained your qualifications at non-South African institutions, these qualifications will be evaluated for comparability by the Postgraduate Office (Stellenbosch Campus) to determine if you are eligible to be considered for admission to the programme.
- Mathematics at National Senior Certificate (NSC) level, computer literacy and fluency in written and spoken English. If you, as an international candidate, are from a non-English speaking country, you must submit official documentary evidence with your application of your competence in English. This may include, among other things:
 - the results of the IELTS test with a minimum IELTS score of 6,5;
 - the results of the TOEFL test with a minimum TOEFL score of 550 (paper based) or 213 (computer based), preferably with a TWE score of 4,5; and/or
 - proof and results of any English courses attended (e.g. English for Medical Students/Englisch für Mediziner.)
- You must demonstrate the necessary academic ability or equivalent professional experience.

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**.

Duration of programme

The programme is presented on a part-time basis over a minimum period of two years.

Programme description

Health systems research is a multidisciplinary field of health research that studies the following: governance, financial and delivery arrangements for health care and public health services, implementation of considerations for reforming or strengthening these arrangements, and broader economic, legal, political and social contexts in which these arrangements operate and are negotiated. The purpose of health systems and services research is to improve the understanding and performance of health systems.

The teaching and learning strategy in each module is determined by the nature of the subject. Modules are presented within the framework of a student-centred approach with the purpose of stimulating critical thinking. The programme uses formal lectures, interactive learning, group sessions and e-learning. Independent learning is encouraged. A research assignment is completed under the guidance of a supervisor.

Programme content

The programme consists of modules with a total of 120 credits and a research assignment of 60 credits. You must complete ten modules of which eight are compulsory and two are elective modules. You may only take an elective module if you meet its prerequisites and if it does not clash on the timetable with a compulsory module. Elective modules are only presented if the requisite minimum number of candidates enrol. You must attend compulsory contact sessions and participate online in e-learning sessions.

Compulsory modules

First year

Introduction to Health Systems and Public Health	875(12)
Fundamentals of Epidemiology	875(12)
Biostatistics I	875(12)
Introduction to Global Health	875(12)
Research Proposal Writing and Grantsmanship	875(12)
Qualitative Research Methods	875(12)

Second year

Health Policy Analysis	875(12)
Economic Evaluation	875(12)

Elective modules

Choose two of the following modules.

Monitoring and Evaluation	875(12)
Participatory (Action) Research Methods	875(12)
Survey Methods	875(12)
Systematic Reviews and Meta-analysis	875(12)
Randomised Controlled Trials	875(12)
Biostatistics II	875(12)
Knowledge Translation	875(12)
Advanced Epidemiology	875(12)
Qualitative Evidence Synthesis	875(12)

Research assignment

Research Assignment *	875(60)
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* The research assignment is completed over the course of the programme.

*Assessment and examination***Modules**

- You must attend scheduled online and face-to-face contact sessions to be eligible to participate in the formative and summative assessment opportunities for modules.
- Formative and summative assessment of modules (120 credits) are conducted. Formative assessments are conducted during the module and a final examination takes place at the end of the module. Both formative and summative assessment contribute 50% to the final assessment mark. You must achieve a minimum pass mark of 45% in the formative assessment during a module to gain access to the final examination in the module.
- If you achieve less than the subminimum of 45% for formative or summative assessment in a module, or less than the overall pass mark of 50%, you fail the module.
- The final mark for the programme is calculated according to the credit weights of the individual modules.
- You must obtain a final mark of at least 50% to pass the programme.
- If you fail any compulsory module more than once, you may be denied the right to reregister for the programme.
- You must successfully participate and integrate knowledge in projects, reports and assignments.

Research assignment

- You must submit a satisfactory research assignment demonstrating your ability to conduct an independent scientific investigation, to interpret the results and to draw conclusions from the results.
- You must submit the completed research assignment in the prescribed format. The assignment is assessed by both internal and external examiners according to the guidelines of Stellenbosch University.
- You will be allowed to register for the research assignment for a maximum of three years. If you fail to complete the research assignment within this time, your performance will be officially reviewed by the Programme Committee of the Division of Health Systems and Public Health, and you may be denied the right to reregister for the programme.

Enquiries

Programme leader: Prof R English

Programme administrator: Ms T Pietersen

Tel: 021 938 9375 E-mail: traceyp@sun.ac.za

5.3.3.17. MPhil in Infant Mental Health*Specific admission requirements*

- An honours degree, an MMed degree or a Fellowship of the Colleges of Medicine of South Africa qualification.
- Registration with the Health Professions Council of South Africa or an equivalent regulatory board.
- You must be working in a clinical setting appropriate to the practice and learning of infant mental health.

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**.

Duration of programme

The programme is presented on a part-time basis and in a modular manner. It extends over two years.

Programme description

The aim of this degree programme is to train competent infant mental health clinicians to attend to the mental health and psychiatric needs of children from 0 to 3 years old.

*Programme content***First year**

Infant Development and Assessment	871(10)
Family and Social Contexts	872(10)

Second year

Disorders in Infancy	873(10)
Evidence-based Interventions	874(10)

First and second years

Infant Observation	876(40)
Clinical Practicum	875(40)
Research Assignment (Infant Mental Health)	881(60)

Assessment and examination

- Modules are assessed on the basis of a combination of:
 - attendance;
 - acceptable completion of module tasks which may take the form of written assignments, essay submissions, practical clinical assessments and presentations; and
 - in the case of the research assignment module, the completion of a research manuscript/article ready for publication.
- You must pass all seven modules with a mark of at least 50%.
- The final mark is calculated as the average of the marks achieved in each of the seven modules.
- The examination and successful completion of the research assignment is compulsory for the awarding of the degree.
- If you fail a module, you may repeat it. If you, however, fail the module for the second time, you may be denied the right to attempt the module again on recommendation of the Faculty Board.
- If you do not complete a module in the allocated time, you may be allowed an extension for a year on recommendation of the Faculty Board. If you require an additional extension of a year to complete a single module, you must submit a motivation to the departmental programme committee. Your request is subject to approval by the Department of Psychiatry and the Faculty Board, and you may be denied the right to attempt completion of the module again.
- To obtain the MPhil in Infant Mental Health degree, you must achieve a final mark of at least 50% and to pass the degree *cum laude*, you must achieve a final mark of at least 75%.

Enquiries

Programme leader: Dr A Lachman

Tel: 021 938 9021

E-mail: anusha@sun.ac.za

5.3.3.18. MPhil in Infectious Diseases (subspecialty programme)*Specific admission requirements*

At least one of the following qualifications:

- FCP (SA);
- MMed (Int); or
- an equivalent specialist qualification.

Application procedure and closing date

You must apply for a senior registrar post in service of the Western Cape Department of Health if you want to register for this programme. If you are successful, you will be admitted to the MPhil in Infectious Diseases.

Duration of programme

The programme extends over two years.

Programme content

Both modules are compulsory and run concurrently instead of consecutively.

Clinical Infectious Diseases	872(135)
Assignment	871(45)

Assessment and examination

- To successfully complete the Clinical Infectious Diseases module, your participation must be satisfactory while working as a senior registrar in the Division of Infectious Diseases. Furthermore, you must achieve a pass mark of at least 50% in the Cert Infectious Diseases (SA) examination of the CMSA.
- You will be assessed regularly as part of the flexible assessment strategy and you must keep a portfolio/log-book of your clinical exposure and experience with procedures.

- You must register the research protocol within six months of registration and complete the research assignment within two years of registration.
- The assignment must be submitted in the form of an article ready for publication. Successful completion of this module is a requirement for admission to the Cert Infectious Diseases (SA) examination of the CMSA.
- The modules contribute to the final mark as follows:
 - Clinical Infectious Diseases – 75%; and
 - Research Assignment – 25%.

Enquiries

Programme leader: Dr JJ Taljaard

Tel: 021 938 9074/9645 E-mail: jjt@sun.ac.za

5.3.3.19. MPhil in Maternal and Fetal Medicine (subspecialty programme)

Specific admission requirements

At least one of the following qualifications:

- FCOG (SA);
- MMed (O&G); or
- an equivalent qualification for specialist registration in South Africa.

Application procedure and closing date

You must apply for a senior registrar post in service of the Western Cape Department of Health if you want to register for this programme. If you are successful, you will be admitted to the MPhil in Maternal and Fetal Medicine.

Duration of programme

The programme extends over two years.

Programme content

Both modules are compulsory and run concurrently instead of consecutively.

Clinical Maternal and Fetal Medicine	872(135)
Assignment (Maternal and Fetal Medicine)	871(45)

Assessment and examination

- To successfully complete the Clinical Maternal and Fetal Medicine module, your participation must be satisfactory while working as a specialist in the Maternal and Fetal Medicine Unit of the Department of Obstetrics and Gynaecology. Furthermore, you must achieve a pass mark of at least 50% in the Cert Maternal and Fetal Medicine (SA) examination of the CMSA.
- You will be assessed regularly as part of the flexible assessment strategy and you must keep a portfolio/log-book of your clinical exposure and experience with procedures.
- You must register the research protocol within three months of registration and complete the research assignment within 21 months of registration.
- The assignment must be submitted in the form of an article ready for publication. Successful completion of this module is a requirement for admission to the Cert Maternal and Fetal Medicine (SA) examination of the CMSA.
- The modules contribute to the final mark as follows:
 - Clinical Maternal and Fetal Medicine – 75%; and
 - Research Assignment – 25%.

Enquiries

Programme leader: Prof DR Hall

Tel: 021 938 9059 E-mail: drh@sun.ac.za

5.3.3.20. MPhil in Medicines Development

Please note: This programme will not be offered until further notice.

Specific admission requirements

One of the following qualifications:

- a postgraduate diploma in pharmaceutical medicine; or
- an equivalent certificate of a PharmaTrain-accredited institution as approved by the University.

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**.

Duration of programme

The programme extends over two years on a part-time basis.

Programme description

You must read the calendar entry for this programme in conjunction with the more comprehensive explanation of the programme regulations that will be provided to you on admission to the programme.

*Programme content***First year**

Health Economics	875(20)
Drug Safety and Pharmacoepidemiology	875(20)
Biological and Advanced Therapies	875(20)

Second year

Vulnerable Diseases	875(20)
Medicines Development in Children	875(20)
Systematic Review and Meta-analysis	875(20)

First and second years

Assignment (Medicines Development)	875(60)
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Assessment and examination

- To be awarded the Master of Philosophy in Medicines Development degree, you must:
 - complete two calendar years as a registered student for the MPhil (Medicines Development) programme;
 - obtain at least 50% in each of the module tests during the two-year programme;
 - pass two three-hour examination papers covering the modules; and
 - submit a written report and deliver an oral presentation on completion of the research assignment.
- You must pass each of the six modules with an average mark of at least 50%.
- The final mark for the programme is calculated as the weighted average of the marks for each of the following components:
 - two three-hour written papers (2 x 30%);
 - a written research assignment and an oral presentation in the presence of an external examiner (25%); and
 - the average mark for the six modules (15%).
- To successfully complete the MPhil (Medicines Development) programme, you must obtain a final mark of 50% or more and to pass the degree *cum laude*, you must obtain a final mark of 75% or more.

Enquiries

Programme leader: Prof H Reuter

Programme administrator: Ms L Hanekom

Tel: 021 938 9331/9045 E-mail: lejandra@sun.ac.za

5.3.3.21. MPhil in Mindfulness*Specific admission requirements*

- One of the following in an education, health sciences, business sciences or social sciences field, for example medicine, physiotherapy, occupational therapy, nursing, social work or psychology:
 - a four-year bachelor's degree;
 - an honour's degree; or
 - a postgraduate diploma (NQF level 8).
- A Certificate in Mindfulness-based Interventions or another mindfulness qualification equivalent to a four-year bachelor's degree, an honour's degree or a postgraduate diploma.

Application procedure and closing dates

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**.

Duration of programme

The programme extends over a minimum of one year on a full-time basis or two years on a part-time basis.

Programme description

- The purpose of this programme is to train researchers who can contribute to the development of knowledge at an advanced level in the field of mindfulness-based interventions.
- The programme offers you the training, supervision and support necessary to enable you to reflect critically on theory and its application, by means of a research thesis.
- New and local knowledge in the field of mindfulness-based interventions will improve patient care and thereby benefit the community.

- The programme is offered by the Department of Psychiatry in collaboration with the Division of Family Medicine and Primary Care.

Programme outcomes

After completing the programme, you should be able to do the following:

- demonstrate a sound knowledge of research practice within the field of mindfulness-based interventions;
- perform research independently;
- make sound judgements using the data and information at your disposal; and
- communicate your findings effectively.

Programme content

Thesis Mindfulness	872(180)
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Assessment and examination

- You must complete a research project, leading to a thesis that is assessed according to University guidelines through a process of internal and external examination.
- You must obtain a minimum pass mark of 50% for the thesis.

Enquiries

Programme leader: Dr DG Alexander

Tel: (021) 938 9445 E-mail: debalex@sun.ac.za

5.3.3.22. MPhil in Minimal Access Gynaecological Surgery

Specific admission requirements

At least one of the following qualifications:

- FCOG (SA);
- MMed (O&G); or
- an equivalent specialist qualification.

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**.

Duration of programme

The programme extends over two years on a full-time basis and four years on a part-time basis.

Programme content

Both modules are compulsory and run concurrently instead of consecutively.

Clinical Component	871(120)
Assignment (Minimally Access Gynaecological Surgery)	872(60)

Assessment and examination

- To successfully complete the clinical component, your participation must be satisfactory while working as a senior registrar in the Department of Obstetrics and Gynaecology.
- You will be assessed regularly as part of the flexible assessment strategy and you must keep a portfolio/log-book of your clinical exposure and experience with procedures.
- If you are a full-time student, you must register the research protocol within three months of registration and complete the research assignment within 21 months of registration.
- If you are a part-time student, you must register the research protocol within six months of registration and complete the research assignment within 42 months of registration.
- The research must be submitted in the form of an assignment or an article ready for publication. Successful completion of the research assignment is a requirement for admission to the formal written examination, objective structured clinical examination (OSCE), objective structured practical examination (OSPE) and oral examination as set and marked by Stellenbosch University.
- You must obtain a pass mark of at least 50% in the examinations.
- The modules contribute to the final mark as follows:
 - Clinical component – 75%; and
 - Research Assignment – 25%.

Enquiries

Programme leader: Dr V Thomas

Tel: 021 938 9217 E-mail: vthomas@sun.ac.za

5.3.3.23. MPhil in Neonatology (subspecialty programme)*Specific admission requirements*

At least one of the following qualifications:

- FC Paed (SA);
- MMed (Paed); or
- an equivalent specialist qualification.

Application procedure

You must apply for a senior registrar post in service of the Western Cape Department of Health (or alternatively fund yourself for the two years of study) if you want to register for this programme. If you are successful, you will be admitted to the MPhil in Neonatology.

Duration of programme

The programme extends over 2 years.

Programme content

The modules run concurrently, and all are compulsory.

Clinical Neonatology	872(135)
Research Assignment	871(45)

Assessment and examination

Successful completion of the Clinical Neonatology module requires satisfactory participation whilst working as a senior registrar in the Division of Neonatology, as well as a pass mark of at least 50% in the Cert Neonatology (SA) examination of the CMSA. You will be assessed regularly as part of the flexible assessment strategy and you must keep a portfolio/log-book of clinical activities, relevant courses attended, experience using formal developmental assessment tools and knowledge of relevant services.

You must register the research protocol within six months after you have registered for the programme and complete the research assignment within two years of registration. The research assignment must be submitted in the form of an article for publication. Successful completion of this module is a requirement for admission to the Cert Neonatology (SA) examination of the CMSA.

The modules contribute to the final mark as follows:

- Clinical Neonatology 75%; and
- Research Assignment 25%.

Enquiries

Programme leader: Dr GTJ Kali

Tel: 021 938 9219 E-mail: kali@sun.ac.za

5.3.3.24. MPhil in Nephrology (subspecialty programme)*Specific admission requirements*

At least one of the following qualifications:

- FCP (SA);
- MMed (Int); or
- an equivalent specialist qualification.

Application procedure and closing date

You must apply for a senior registrar post in service of the Western Cape Department of Health if you want to register for this programme. If you are successful, you will be admitted to the MPhil in Nephrology.

Duration of programme

The programme extends over two years.

Programme content

Both modules are compulsory and run concurrently instead of consecutively.

Clinical Nephrology	872(135)
Assignment	871(45)

Assessment and examination

- To successfully complete the Clinical Nephrology module, your participation must be satisfactory while working as a senior registrar in the Division of Nephrology. Furthermore, you must achieve a pass mark of at least 50% in the Cert Nephrology (SA) examination of the CMSA.
- You will be assessed regularly as part of the flexible assessment strategy and you must keep a portfolio/log-book of your clinical exposure and experience with procedures.

- You must register the research protocol within six months of registration and complete the research assignment within two years of registration.
- The assignment must be submitted in the form of an article ready for publication. Successful completion of this module is a requirement for admission to the Cert Nephrology (SA) examination of the CMSA.
- The modules contribute to the final mark as follows:
 - Clinical Nephrology – 75%; and
 - Research Assignment – 25%.

Enquiries

Programme leader: Prof MR Davids

Tel: 021 938 9246 E-mail: mrd@sun.ac.za

5.3.3.25. MPhil in Neuropsychiatry – Clinical Neuropsychiatry

Specific admission requirements

One of the following qualifications:

- Master of Medicine in Psychiatry or Neurology;
- a fellowship of the South African College of Psychiatrists/Neurologists; or
- an equivalent qualification approved by Senate for this purpose.

Registration as medical practitioner in the category independent practice/specialist psychiatrist/specialist neurologist with the Health Professions Council of South Africa.

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**.

Duration of programme

The programme extends over two years.

Programme description

The teaching and learning strategy in each module is determined by the nature of the subject. Modules are presented within the framework of a student-centred approach with the purpose of stimulating critical thinking. The programme uses didactical methods, interactive learning, group sessions and supervised clinical work. Independent learning is encouraged. The research assignment is completed under the guidance of a supervisor.

Programme content

First year

Ethics	871(5)
Research Methodology	871(5)
Neuropsychopharmacology	871(5)
Applied Psychiatry of the Elderly	871(10)
Applied Neurology	871(10)
Applied Psychosomatic Medicine	871(10)
Applied HIV Medicine	871(10)

Second year

Clinical Neuropsychiatry	871(55)
Neuropsychological and Specialised Assessments	871(5)
Clinical Imaging	871(5)
Research Assignment	871(60) *

* The research project is completed over the course of the two years.

Assessment and examination

- Flexible assessment is applicable to all modules and you must pass each module with a minimum mark of 50%.
- You will be assessed regularly as part of the flexible assessment strategy and you must keep a log-book as record of your clinical exposure.
- If you fail a module, you may repeat the assessment which has contributed to the final mark for the module. Whether the topic and nature of the assessment remain unchanged or you are required to take an amended assessment, is left to the discretion of the module chair.
- If you fail a module, you may repeat it. If you, however, fail the module for the second time, you may be denied the right to attempt the module again on recommendation of the Faculty Board.
- If you do not show adequate clinical and/or professional progress (as outlined in the module/programme guide), you will be afforded an opportunity to remediate your inadequate clinical and/or professional conduct or performance. If

you fail to remediate, you may only repeat the module or continue with the programme on recommendation of the departmental programme committee and the approval of the Faculty Board.

- You must submit a satisfactory research assignment demonstrating your ability to conduct an independent scientific investigation, to interpret the results and to make deductions from the results.
- The assignment is assessed according to the guidelines of Stellenbosch University and you must achieve a mark of at least 50% to pass.
- The final mark is calculated according to the credit weights of the individual modules.
- You must obtain a final mark of at least 50% to pass the programme.

Enquiries

Programme leader: Dr L Asmal

Tel: 021 938 9623 E-mail: laila@sun.ac.za

5.3.3.26. MPhil in Neuropsychiatry – Old Age Psychiatry

Specific admission requirements

- One of the following qualifications:
 - Master of Medicine in Psychiatry/Neurology;
 - a fellowship of the South African College of Psychiatrists/Neurologists; or
 - an equivalent qualification approved by Senate for this purpose.
- Registration as medical practitioner in the category independent practice/specialist psychiatrist with the Health Professions Council of South Africa.

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**.

Duration of programme

The programme extends over two years.

Programme description

The teaching and learning strategy in each module is determined by the nature of the subject. Modules are presented within the framework of a student-centred approach with the purpose of stimulating critical thinking. The programme uses didactical methods, interactive learning, group sessions and supervised clinical work. Independent learning is encouraged. The research assignment is completed under the guidance of a supervisor.

Programme content

First year

Applied HIV and Medicine	871(10)
Applied Neurology	871(10)
Applied Neuropsychiatry	871(10)
Applied Psychosomatic Medicine	871(10)
Ethics	871(5)
Neuropsychopharmacology	871(5)
Research Methodology	871(5)

Second year

Applied Geriatric Medicine	871(10)
Clinical Imaging	871(5)
Neuropsychological and Specialised Assessments	871(5)
Old Age Psychiatry	871(45)
Research Assignment	871(60) *

* The research assignment is completed over the course of the two years.

Assessment and examination

- Flexible assessment is applicable to all modules and you must pass each module with a minimum mark of 50%.
- You will be assessed regularly as part of the flexible assessment strategy and you must keep a log-book as record of your clinical exposure.
- If you fail a module, you may repeat the assessment which has contributed to the final mark for the module. Whether the topic and nature of the assessment remain unchanged or you are required to take an amended assessment, is left to the discretion of the module chair.
- If you fail a module, you may repeat it. If you, however, fail the module for the second time, you may be denied the right to attempt the module again on recommendation of the Faculty Board.

- If you do not show adequate clinical and/or professional progress (as outlined in the module/programme guide), you will be afforded an opportunity to remediate your inadequate clinical and/or professional conduct or performance. If you fail to remediate, you may only repeat the module or continue with the programme on recommendation of the departmental programme committee and the approval of the Faculty Board.
- You must submit a satisfactory research assignment demonstrating your ability to conduct an independent scientific investigation, to interpret the results and to make deductions from the results.
- The assignment is assessed according to the guidelines of Stellenbosch University and you must achieve a mark of at least 50% to pass.
- The final mark is calculated according to the credit weights of the individual modules.
- You must obtain a final mark of at least 50% to pass the programme.

Enquiries

Programme leader: Dr DJH Niehaus

Tel: 021 938 9023 E-mail: djhn@sun.ac.za

5.3.3.27. MPhil in Neuropsychiatry – Psychosomatic Medicine

Specific admission requirements

One of the following qualifications:

- Master of Medicine in Psychiatry/Neurology;
- a fellowship of the South African College of Psychiatrists/Neurologists; or
- an equivalent qualification approved by Senate for this purpose.

Registration as medical practitioner in the category independent practice/specialist psychiatrist with the Health Professions Council of South Africa.

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**.

Duration of programme

The programme extends over two years.

Programme description

The teaching and learning strategy in each module is determined by the nature of the subject. Modules are presented within the framework of a student-centred approach with the purpose of stimulating critical thinking. The programme uses didactical methods, interactive learning, group sessions and supervised clinical work. Independent learning is encouraged. The research assignment is completed under the guidance of a supervisor.

Programme content

First year

Ethics	871(5)
Research Methodology	871(5)
Neuropsychopharmacology	871(5)
Applied Psychiatry of the Elderly	871(10)
Applied Neurology	871(10)
Applied Neuropsychiatry	871(10)
Applied HIV and Medicine	871(10)

Second year

Psychosomatic Medicine	871(55)
Neuropsychological and Specialised Assessments	871(5)
Clinical Imaging	871(5)
Research Assignment	871(60) *

* The research project is completed over the course of the two years.

Assessment and examination

- Flexible assessment is applicable to all modules and you must pass each module with a minimum mark of 50%.
- You will be assessed regularly as part of the flexible assessment strategy and you must keep a log-book as record of your clinical exposure.
- If you fail a module, you may repeat the assessment which has contributed to the final mark for the module. Whether the topic and nature of the assessment remain unchanged or you are required to take an amended assessment, is left to the discretion of the module chair.

- If you fail a module, you may repeat it. If you, however, fail the module for the second time, you may be denied the right to attempt the module again on recommendation of the Faculty Board.
- If you do not show adequate clinical and/or professional progress (as outlined in the module/programme guide), you will be afforded an opportunity to remediate your inadequate clinical and/or professional conduct or performance. If you fail to remediate, you may only repeat the module or continue with the programme on recommendation of the departmental programme committee and the approval of the Faculty Board.
- You must submit a satisfactory research assignment demonstrating your ability to conduct an independent scientific investigation, to interpret the results and to make deductions from the results.
- The assignment is assessed according to the guidelines of Stellenbosch University and you must achieve a mark of at least 50% to pass.
- The final mark is calculated according to the credit weights of the individual modules.
- You must obtain a final mark of at least 50% to pass the programme.

Enquiries

Programme leader: Dr K Louw

Tel: 021 938 9765 E-mail: kerrylouw@sun.ac.za

5.3.3.28. MPhil in Paediatric Cardiology (subspecialty programme)

Specific admission requirements

At least one of the following qualifications:

- FC Paed (SA);
- MMed (Paed); or
- an equivalent specialist qualification.

Application procedure

You must apply for a senior registrar post in service of the Western Cape Department of Health (or alternatively fund yourself for the two years of study) if you want to register for this programme. If you are successful, you will be admitted to the MPhil in Paediatric Cardiology.

Duration of programme

The programme extends over 2 years.

Programme content

The modules run concurrently and all are compulsory.

Clinical Paediatric Cardiology	872(135)
Research Assignment	871(45)

Assessment and examination

Successful completion of the Clinical Paediatric Cardiology module requires satisfactory participation whilst working as a senior registrar in the Division of Paediatric Cardiology, as well as a pass mark of at least 50% in the Cert Cardiology (SA) Paed examination of the CMSA. You will be assessed regularly as part of the flexible assessment strategy and you must keep a portfolio/log-book of clinical activities, relevant courses attended, experience using formal developmental assessment tools and knowledge of relevant services.

You must register the research protocol within six months after you have registered for the programme and complete the research assignment within two years of registration. The research assignment must be submitted in the form of an article for publication. Successful completion of the Research Assignment module is a requirement for admission to the Cert Cardiology (SA) Paed examination of the CMSA.

The modules contribute to the final mark as follows:

- Clinical Paediatric Cardiology 75%; and
- Research Assignment 25%.

Enquiries

Programme leader: Prof J Lawrenson

Tel: 021 938 9219 E-mail: jlaw@sun.ac.za

5.3.3.29. MPhil in Paediatric Critical Care (subspecialty programme)

Specific admission requirements

At least one of the following qualifications:

- FC Paed (SA);
- MMed (Paed); or
- an equivalent specialist qualification.

Application procedure

You must apply for a senior registrar post in service of the Western Cape Department of Health (or alternatively fund yourself for the two years of study) if you want to register for this programme. If you are successful, you will be admitted to the MPhil in Paediatric Critical Care.

Duration of programme

The programme extends over 2 years.

Programme content

The modules run concurrently and all are compulsory.

Clinical Paediatric Critical Care	872(135)
Research Assignment	871(45)

Assessment and examination

Successful completion of the Clinical Paediatric Critical Care module requires satisfactory participation whilst working as a senior registrar in the Division of Paediatric Critical Care, as well as a pass mark of at least 50% in the Cert Critical Care (SA) Paed examination of the CMSA. You will be assessed regularly as part of the flexible assessment strategy and you must keep a portfolio/log-book of clinical activities, relevant courses attended, experience using formal developmental assessment tools and knowledge of relevant services.

You must register the research protocol within six months after you have registered for the programme and complete the research assignment within two years of registration. The research assignment must be submitted in the form of an article for publication. Successful completion of the Research Assignment module is a requirement for admission to the Cert Critical Care (SA) Paed examination of the CMSA.

The modules contribute to the final mark as follows:

- Clinical Paediatric Critical Care 75%; and
- Research Assignment 25%.

Enquiries

Programme leader: Dr N Parker

Tel: 021 938 9027 E-mail: nmp@sun.ac.za

5.3.3.30. MPhil in Paediatric Endocrinology (subspecialty programme)*Specific admission requirements*

At least one of the following qualifications:

- FC Paed (SA);
- MMed (Paed); or
- an equivalent specialist qualification.

Application procedure

You must apply for a senior registrar post in service of the Western Cape Department of Health (or alternatively fund yourself for the two years of study) if you want to register for this programme. If you are successful, you will be admitted to the MPhil in Paediatric Endocrinology.

Duration of programme

The programme extends over 2 years.

Programme content

The modules run concurrently, and all are compulsory.

Clinical Paediatric Endocrinology	872(135)
Research Assignment	871(45)

Assessment and examination

Successful completion of the Clinical Paediatric Endocrinology module requires satisfactory participation whilst working as a senior registrar in the Division of Paediatric Endocrinology, as well as a pass mark of at least 50% in the Cert Endocrinology & Metabolism (SA) Paed examination of the CMSA. You will be assessed regularly as part of the flexible assessment strategy and you must keep a portfolio/log-book of clinical activities, relevant courses attended, experience using formal developmental assessment tools and knowledge of relevant services.

You must register the research protocol within six months after you have registered for the programme and complete the research assignment within two years of registration. The research assignment must be submitted in the form of an article for publication. Successful completion of this module is a requirement for admission to the Cert Endocrinology & Metabolism (SA) Paed examination of the CMSA.

The modules contribute to the final mark as follows:

- Clinical Paediatric Endocrinology 75%; and
- Research Assignment 25%.

Enquiries

Programme leader: Prof EWA Zöllner
Tel: 021 938 9219 E-mail: zollner@sun.ac.za

5.3.3.31. MPhil in Paediatric Gastroenterology, Hepatology and Nutrition (subspecialty programme)*Specific admission requirements*

At least one of the following qualifications:

- FC Paed (SA);
- MMed (Paed); or
- an equivalent specialist qualification.

Application procedure

You must apply for a senior registrar post in service of the Western Cape Department of Health (or alternatively fund yourself for the two years of study) if you want to register for this programme. If you are successful, you will be admitted to the MPhil in Paediatric Gastroenterology, Hepatology and Nutrition.

Duration of programme

The programme extends over 2 years.

Programme content

The modules run concurrently and all are compulsory.

Clinical Paediatric Gastroenterology	872(135)
Research Assignment	871(45)

Assessment and examination

Successful completion of the Clinical Paediatric Gastroenterology module requires satisfactory participation whilst working as a senior registrar in the Division of Paediatric Gastroenterology, as well as a pass mark of at least 50% in the Cert Gastroenterology (SA) Paed examination of the CMSA. You will be assessed regularly as part of the flexible assessment strategy and you must keep a portfolio/log-book of clinical activities, relevant courses attended, experience using formal developmental assessment tools and knowledge of relevant services.

You must register the research protocol within six months after you have registered for the programme and complete the research assignment within two years of registration. The research assignment must be submitted in the form of an article for publication. Successful completion of the Research Assignment module is a requirement for admission to the Cert Gastroenterology (SA) Paed examination of the CMSA.

The modules contribute to the final mark as follows:

- Clinical Paediatric Gastroenterology 75%; and
- Research Assignment 25%.

Enquiries

Programme leader: Prof ED Nel
Tel: 021 938 9219 E-mail: edn@sun.ac.za

5.3.3.32. MPhil in Paediatric Infectious Diseases (subspecialty programme)*Specific admission requirements*

At least one of the following qualifications:

- FC Paed (SA);
- MMed (Paed); or
- an equivalent specialist qualification.

Application procedure

You must apply for a senior registrar post in service of the Western Cape Department of Health (or alternatively fund yourself for the two years of study) if you want to register for this programme. If you are successful, you will be admitted to the MPhil in Paediatric Infectious Diseases.

Duration of programme

The programme extends over 2 years.

Programme content

The modules run concurrently, and all are compulsory.

Clinical Paediatric Infectious Diseases	872(135)
Research Assignment	871(45)

Assessment and examination

Successful completion of the Clinical Paediatric Infectious Diseases module requires satisfactory participation whilst working as a senior registrar in the Division of Paediatric Infectious Diseases, as well as a pass mark of at least 50% in the Cert ID (SA)

Paed examination of the CMSA. You will be assessed regularly as part of the flexible assessment strategy and you must keep a portfolio/log-book of clinical activities, relevant courses attended, experience using formal developmental assessment tools and knowledge of relevant services.

You must register the research protocol within six months after you have registered for the programme and complete the research assignment within two years of registration. The research assignment must be submitted in the form of an article for publication. Successful completion of the Research Assignment module is a requirement for admission to the Cert ID (SA) Paed examination of the CMSA.

The modules contribute to the final mark as follows:

- Clinical Paediatric Infectious Diseases 75%; and
- Research Assignment 25%.

Enquiries

Programme leader: Prof MF Cotton

Tel: 021 938 4298 E-mail: mcot@sun.ac.za

5.3.3.33. MPhil in Paediatric Medical Oncology (subspecialty programme)

Specific admission requirements

At least one of the following qualifications:

- FC Paed (SA);
- MMed (Paed); or
- an equivalent specialist qualification.

Application procedure

You must apply for a senior registrar post in service of the Western Cape Department of Health (or alternatively fund yourself for the two years of study) if you want to register for this programme. If you are successful, you will be admitted to the MPhil in Paediatric Medical Oncology.

Duration of programme

The programme extends over 2 years.

Programme content

The modules run concurrently, and all are compulsory.

Clinical Paediatric Medical Oncology	872(135)
Research Assignment	871(45)

Assessment and examination

Successful completion of the Clinical Paediatric Medical Oncology module requires satisfactory participation whilst working as a senior registrar in the Paediatric Haematology and Oncology Unit, Tygerberg Hospital, as well as a pass mark of at least 50% in the Cert Medical Oncology (SA) Paed examination of the CMSA. You will be assessed regularly as part of the flexible assessment strategy and you must keep a portfolio/log-book of:

- clinical activities;
- experience in haematology and oncology procedures;
- relevant courses attended;
- compulsory tumour board meetings attended;
- rotations through the Divisions of Radiation Oncology and Haematological Pathology (Haematology laboratory);
- experience using formal developmental assessment tools; and
- knowledge gained of relevant services.

You must register the research protocol within six months after you have registered for the programme and complete the research assignment within two years of registration. The research assignment must be submitted in the form of an article for publication. Successful completion of the Research Assignment module is a requirement for admission to the Cert Medical Oncology (SA) Paed examination of the CMSA.

The modules contribute to the final mark as follows:

- Clinical Paediatric Medical Oncology 75%; and
- Research Assignment 25%.

Enquiries

Programme leader: Prof M Kruger

Tel: 021 938 9220 E-mail: marianakruger@sun.ac.za

5.3.3.34. MPhil in Paediatric Nephrology (subspecialty programme)*Specific admission requirements*

At least one of the following qualifications:

- FC Paed (SA);
- MMed (Paed); or
- an equivalent specialist qualification.

Application procedure

You must apply for a senior registrar post in service of the Western Cape Department of Health (or alternatively fund yourself for the two years of study) if you want to register for this programme. If you are successful, you will be admitted to the MPhil in Paediatric Nephrology.

Duration of programme

The programme extends over 2 years.

Programme content

The modules run concurrently, and all are compulsory.

Clinical Paediatric Nephrology	872(135)
Research Assignment	871(45)

Assessment and examination

Successful completion of the Clinical Paediatric Nephrology module requires satisfactory participation whilst working as a senior registrar in the Division of Paediatric Nephrology, as well as a pass mark of at least 50% in the Cert Nephrology (SA) Paed examination of the CMSA. You will be assessed regularly as part of the flexible assessment strategy and you must keep a portfolio/log-book of clinical activities, relevant courses attended, experience using formal developmental assessment tools and knowledge of relevant services.

You must register the research protocol within six months after you have registered for the programme and complete the research assignment within two years of registration. The research assignment must be submitted in the form of an article for publication. Successful completion of the Research Assignment module is a requirement for admission to the Cert Nephrology (SA) Paed examination of the CMSA.

The modules contribute to the final mark as follows:

- Clinical Paediatric Nephrology 75%; and
- Research Assignment 25%.

Enquiries

Programme leader: Dr CJ du Buisson

Tel: 021 938 9219 E-mail: cjdb@sun.ac.za

5.3.3.35. MPhil in Paediatric Neurology (subspecialty programme)*Specific admission requirements*

At least one of the following qualifications:

- FC Paed (SA);
- MMed (Paed); or
- an equivalent specialist qualification.

Application procedure

You must apply for a senior registrar post in service of the Western Cape Department of Health (or alternatively fund yourself for the two years of study) if you want to register for this programme. If you are successful, you will be admitted to the MPhil in Paediatric Neurology.

Duration of programme

The programme extends over 2 years.

Programme content

The modules run concurrently, and all are compulsory.

Clinical Paediatric Neurology	872(135)
Research Assignment	871(45)

Assessment and examination

Successful completion of the Clinical Paediatric Neurology module requires satisfactory participation whilst working as a senior registrar in the Division of Paediatric Neurology, as well as a pass mark of at least 50% in the Cert Paediatric Neurology (SA) examination of the CMSA. You will be assessed regularly as part of the flexible assessment strategy and you must keep a portfolio/log-book of clinical activities, relevant courses attended, experience using formal developmental assessment tools and knowledge of relevant services.

You must register the research protocol within six months after you have registered for the programme and complete the research assignment within two years of registration. The research assignment must be submitted in the form of an article for publication. Successful completion of the Research Assignment module is a requirement for admission to the Cert Paediatric Neurology (SA) examination of the CMSA.

The modules contribute to the final mark as follows:

- Clinical Paediatric Neurology 75%; and
- Research Assignment 25%.

Enquiries

Programme leader: Prof R van Toorn

Tel: 021 938 9219 E-mail: vtoorn@sun.ac.za

5.3.3.36. MPhil in Paediatric Pulmonology (subspecialty programme)

Specific admission requirements

At least one of the following qualifications:

- FC Paed (SA);
- MMed (Paed); or
- an equivalent specialist qualification.

Application procedure

You must apply for a senior registrar post in service of the Western Cape Department of Health (or alternatively fund yourself for the two years of study) if you want to register for this programme. If you are successful, you will be admitted to the MPhil in Paediatric Pulmonology.

Duration of programme

The programme extends over 2 years.

Programme content

The modules run concurrently, and all are compulsory.

Clinical Paediatric Pulmonology	872(135)
Research Assignment	871(45)

Assessment and examination

Successful completion of the Clinical Paediatric Pulmonology module requires satisfactory participation whilst working as a senior registrar in the Division of Paediatric Pulmonology, as well as a pass mark of at least 50% in the Cert Pulmonology (SA) Paed examination of the CMSA. You will be assessed regularly as part of the flexible assessment strategy and you must keep a portfolio/log-book of clinical activities, relevant courses attended, experience using formal developmental assessment tools and knowledge of relevant services.

You must register the research protocol within six months after you have registered for the programme and complete the research assignment within two years of registration. The research assignment must be submitted in the form of an article for publication. Successful completion of the Research Assignment module is a requirement for admission to the Cert Pulmonology (SA) Paed examination of the CMSA.

The modules contribute to the final mark as follows:

- Clinical Paediatric Pulmonology 75%; and
- Research Assignment 25%.

Enquiries

Programme leader: Prof P Goussard

Tel: 021 938 9219 E-mail: pgouss@sun.ac.za

5.3.3.37. MPhil in Pulmonology (subspecialty programme)

Specific admission requirements

At least one of the following qualifications:

- FCP (SA);
- MMed (Int); or
- an equivalent specialist qualification.

Application procedure and closing date

You must apply for a senior registrar post in service of the Western Cape Department of Health if you want to register for this programme. If you are successful, you will be admitted to the MPhil in Pulmonology.

Duration of programme

The programme extends over two years.

Programme content

Both modules are compulsory and run concurrently instead of consecutively.

Clinical Pulmonology	872(135)
Assignment	871(45)

Assessment and examination

- To successfully complete the Clinical Pulmonology module, your participation must be satisfactory while working as a senior registrar in the Division of Pulmonology. Furthermore, you must achieve a pass mark of at least 50% in the Cert Pulmonology (SA) examination of the CMSA.
- You will be assessed regularly as part of the flexible assessment strategy and you must keep a portfolio/log-book of your clinical exposure and experience with procedures.
- You must register the research protocol within six months of registration and complete the research assignment within two years of registration.
- The assignment must be submitted in the form of an article ready for publication. Successful completion of this module is a requirement for admission to the Cert Pulmonology (SA) examination of the CMSA.
- The modules contribute to the final mark as follows:
 - Clinical Pulmonology – 75%; and
 - Research Assignment – 25%.

Enquiries

Programme leader: Prof EM Irusen

Tel: 021 938 9554/9423 E-mail: eirusen@sun.ac.za

5.3.3.38. MPhil in Reproductive Medicine (subspecialty programme)*Specific admission requirements*

At least one of the following qualifications:

- FCOG (SA);
- MMed (O&G); or
- an equivalent qualification for registration as specialist in South Africa.

Application procedure and closing date

You must apply for a senior registrar post in service of the Western Cape Department of Health if you want to register for this programme. If you are successful, you will be admitted to the MPhil in Reproductive Medicine.

Duration of programme

The programme extends over two years on a full-time basis and four years on a part-time basis.

Programme content

Both modules are compulsory and run concurrently instead of consecutively.

Clinical Reproductive Medicine	872(135)
Assignment (Reproductive Medicine)	871(45)

Assessment and examination

- To successfully complete the Clinical Reproductive Medicine module, your participation must be satisfactory while working as a specialist in the Reproductive Medicine Unit of the Department of Obstetrics and Gynaecology. Furthermore, you must achieve a pass mark of at least 50% in the Cert Reproductive Medicine (SA) examination of the CMSA.
- You will be assessed regularly as part of the flexible assessment strategy and you must keep a portfolio/log-book of your clinical exposure and experience with procedures.
- If you are a full-time student, you must register the research protocol within three months of registration as an MPhil student and complete the research assignment within 21 months of registration.
- If you are a part-time student, you must register the research protocol within six months of registration as an MPhil student and complete the research assignment within 42 months of registration.
- The research assignment must be submitted in the form of an article ready for publication. Successful completion of this module is a requirement for admission to the Cert Reproductive Medicine (SA) examination of the CMSA.
- The modules contribute to the final mark as follows:
 - Clinical Reproductive Medicine – 75%; and
 - Research Assignment – 25%.

Enquiries

Programme leader: Dr T Matsaseng

Tel: 021 938 9217 E-mail: thabom@sun.ac.za

5.3.3.39. MPhil in Rheumatology (subspecialty programme)

Specific admission requirements

At least one of the following qualifications:

- FCP (SA);
- MMed (Int); or
- an equivalent specialist qualification.

Application procedure and closing date

You must apply for a senior registrar post in service of the Western Cape Department of Health if you want to register for this programme. If you are successful, you will be admitted to the MPhil in Rheumatology.

Duration of programme

The programme extends over two years.

Programme content

Both modules are compulsory and run concurrently instead of consecutively.

Clinical Rheumatology	872(135)
Assignment	871(45)

Assessment and examination

- To successfully complete the Clinical Rheumatology module, your participation must be satisfactory while working as a senior registrar in the Division of Rheumatology. Furthermore, you must achieve a pass mark of at least 50% in the Cert Rheumatology (SA) examination of the CMSA.
- You will be assessed regularly as part of the flexible assessment strategy and you must keep a portfolio/log-book of your clinical exposure and experience with procedures.
- You must register the research protocol within six months of registration and complete the research assignment within two years of registration.
- The assignment must be submitted in the form of an article ready for publication. Successful completion of this module is a requirement for admission to the Cert Rheumatology (SA) examination of the CMSA.
- The modules contribute to the final mark as follows:
 - Clinical Rheumatology – 75%; and
 - Research Assignment – 25%.

Enquiries

Programme leader: Dr R du Toit

Tel: 021 938 9074 E-mail: rdutoit@sun.ac.za

5.3.4 Master of Addiction Care

Specific admission requirements

- A four-year bachelor's degree, an honours degree or a postgraduate diploma in addiction care or in health or social sciences relevant to addiction care, e.g. nursing, social work, psychology, medicine, occupational therapy and theology.

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**. You are, however, strongly advised to contact the programme leader by June to discuss your application.

Only a limited number of students are selected annually.

Duration of programme

The programme extends over a minimum of one year on a full-time basis or two years on a part-time basis.

Programme description

The research-based programme comprises an approved research project and a thesis. You compile the initial research proposal with support from the supervisor, and it is approved by the Health Research Ethics Committee of the Faculty of Medicine and Health Sciences.

Programme content

Thesis	872(180)
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Assessment and examination

- The thesis is assessed according to University guidelines through a process of internal and external examination.
- You must achieve a mark of at least 50% for the thesis to pass the programme.

Enquiries

Programme leader: Dr Lize Weich

Tel: 021 940 4400 E-mail: addictions@sun.ac.za

5.3.5 Master of Audiology*Specific admission requirements*

- A four-year Bachelor's degree in Audiology from an accredited university, or an equivalent qualification as approved by Senate.

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**.

Senate, or the Executive Committee acting on its behalf, will decide if you may be admitted to the programme.

On application for admission you must submit a preliminary proposal to the head of the Division for approval, as agreed with the latter.

Duration of programme

The programme extends over one year on a full-time basis or two years on a part-time basis.

Programme content

Thesis: Audiology	872(180)
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Assessment and examination

- The thesis is assessed by at least one internal and one external examiner and will contribute 100% to the final mark of the programme.
- The assessment includes an oral examination.
- You must achieve a final mark of at least 50% for the thesis to pass the programme.

Enquiries

Programme leader: Dr B Gerber

Tel: 021 938 9494 E-mail: berna@sun.ac.za

5.3.6 Master of Human Rehabilitation Studies*Specific admission requirements*

- One of the following:
 - a professional bachelor's degree at NQF level 8;
 - a bachelor honours degree in an appropriate health or health-related field;
 - an MBChB degree or an equivalent qualification approved for such purpose by Senate; or
 - you must have attained in some other manner a standard of competence in your particular field of study deemed adequate for such purpose by Senate.
- For the thesis programme you must also:
 - have at least three years of applicable professional experience; and
 - have successfully completed an approved curriculum of research theory and methods, or advanced study, at this or another recognised university.

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**.

Programme description

You can choose one of two options for the Master of Human Rehabilitation Studies, namely:

- Master of Human Rehabilitation Studies (structured option); or
- Master of Human Rehabilitation Studies (thesis option).

The two options are discussed separately in more detail below.

This programme:

- Addresses the current need for advanced interdisciplinary studies and research in the disability- and rehabilitation-related fields, as expressed in various provincial, national and international policy documents, charters and treaties.
- Provides an interdisciplinary pool of specialised rehabilitation professionals, from a variety of professional backgrounds, who have the necessary clinical decision-making, managerial, research and educational knowledge, skills and socio-political attitudes, to hold positions of leadership within rehabilitation-related fields.
- Produces rehabilitation specialists who can act as specialist consultants in public and private rehabilitation services, within and beyond their specific professional areas of practice.

- Equips you with a sophisticated knowledge and understanding of phenomena pertinent to the disability- and rehabilitation-related fields, within a human rights and social model perspective.
- Ensures mastery of the field of rehabilitation through the high-level analysis of new information, and the ability to deal with complexity and to find workable solutions to problems and challenges.
- Enables you to do advanced and independent research.
- Introduces you to the world of scholarly communication, inter alia through assistance in publishing your own research reports.
- Contributes to the pool of rehabilitation academics and professionals with the competence and critical intellectual abilities to ensure future advancement of the field of rehabilitation.
- Addresses the country's need for rehabilitation specialists of the highest quality.

Please note: Theoretical modules are presented by means of blended learning which comprises a compulsory contact period of two weeks at the Tygerberg Campus in February of each study year, as well as web-based teaching, discussions and assignments in the course of the year.

5.3.6.1. Master of Human Rehabilitation Studies (structured option)

Duration of programme

The programme extends over two years.

Programme content

First year

Applied Research Methodology	842(40)
Rehabilitation I	871(40)

Second year

Rehabilitation II	872(40)
Research Assignment	814(60)

Assessment and examination

- Modules are assessed by means of online discussions and open-book assignments. You must pass all four modules with a mark of at least 50%.
- If you fail a module with a final mark of between 45% and 49%, you will be granted an opportunity to repeat the assignment(s) which has contributed to the final mark for the module.
- If you do not qualify to repeat the assignment(s) or fail the assignment(s) for the second time, you will be given one opportunity to repeat the module in the following year. If you fail the module for the second time, you may be denied the right to register for the module again and to qualify for the master's qualification on recommendation of the Faculty Board.
- You must submit a satisfactory research assignment which clearly demonstrates your ability to conduct an independent scientific study and interpret the results. If you require more time to complete the research assignment, you may register for a third year of study.

Enquiries

Programme leader: Dr Martha Geiger

Tel: 021 938 9090 E-mail: mgeiger@sun.ac.za

Administrative assistant: Ms Anita Palmer

Tel: 021 938 9090 E-mail: apalmer@sun.ac.za

5.3.6.2. Master of Human Rehabilitation Studies (thesis option)

Duration of programme

The programme extends over one year.

Programme content

The thesis subject will be determined in consultation with the programme leader.

Thesis (Rehabilitation)	872(180)
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Assessment and examination

- You must complete a research project, leading to the submission of a thesis which is assessed according to University guidelines through a process of internal and external assessment.
- A minimum pass mark of 50% is required.

Enquiries

Programme leader: Dr Martha Geiger
 Tel: 021 938 9090 E-mail: mgeiger@sun.ac.za
 Administrative assistant: Ms Anita Palmer
 Tel: 021 938 9090 E-mail: apalmer@sun.ac.za

5.3.7 Master of Nursing*Application procedure and closing date*

Apply online at www.maties.com by **30 September** of the previous year.

The Master of Nursing programme is a selection programme.

Programme description

The primary purpose of the master's programme is to equip the student to conduct independent research in the field of Nursing. As a master's degree student, you must demonstrate self-direction and originality in identifying and solving problems, act autonomously in planning and implementing tasks with a theoretical underpinning, and continue to advance your knowledge, understanding and skills.

You can follow one of two streams within the Master of Nursing programme, namely:

- Master of Nursing (structured option); and
- Master of Nursing (thesis option).

The two options are discussed separately in more detail below.

Programme outcomes

On completion of the programme, you will be able to master the following skills:

- Effective application of the science of health care regarding disease and technology, and of advanced and sophisticated theoretical and clinical subject data in the chosen specialist field of nursing science.
- Responsible and accountable participation in the promotion of the quality of life in the South African community as well as in the promotion of health care delivery in South Africa with acknowledgement of cultural differences.
- Demonstration of nursing leadership through:
 - identification and solving of health care issues and problems through research and the use of creative and critical thinking;
 - effective organisation and management of comprehensive health care services; and
 - effective leadership of health care teams in the academic and clinical fields.
- Independent research and effective communication of findings to improve training programmes and health care services.
- Comprehensive knowledge in the chosen specialist or research field.
- Advanced theoretical knowledge in nursing science and applying it in practice.
- Knowledge of recent literature and research with respect to the specialist field.
- Demonstration that you have the ability to:
 - briefly evaluate relevant literature;
 - identify, define and research complex problems;
 - perform independent research including all steps of the research process;
 - extrapolate data implications and impact, and bring this in relation to broader issues; and
 - question orthodox theory and practices, present and implement new ideas and methods.
- Understanding and application of appropriate academic and professional values.
- Self-reflection and adaptability to a higher degree of academic milieu and argumentation.

The objectives of the programme are to:

- equip you with sophisticated knowledge and understanding of phenomena specific to the field of nursing science;
- empower you to perform independent and advanced research; and
- develop a pool of specialised nurses with the necessary clinical, management, research and educational knowledge, skills and attitude to be leaders and specialist consultants in health care services.

Enquiries

Programme leader: Dr MM van der Heever
 Tel: 021 938 9295 E-mail: mmvdheever@sun.ac.za
 Administrative assistant: Ms J Petersen
 Tel: 021 938 9823 E-mail: jpetersen@sun.ac.za
 Website: <http://www.sun.ac.za/nursing>

5.3.7.1. Master of Nursing (structured option)

Specific admission requirements

One of the following qualifications:

- a four-year undergraduate professional bachelor's degree in Nursing (NQF level 8);
- an international equivalent of the four-year professional bachelor's degree in Nursing, e.g. R174;
- a four-year basic Diploma in Nursing for students who graduated before the implementation of the HEQSF, with proof of successful completion of appropriate prior learning on NQF 8 or 9 levels that focus especially on preparation of appropriate research skills. Regarding this qualification, your application will be considered by the Committee for Postgraduate Teaching of the Faculty of Medicine and Health Sciences according to the Policy on Assessment and Recognition of Prior Learning of the University, and final approval lies with Senate. You must also have at least a one-year postgraduate tertiary qualification in Nursing;
- another qualification deemed adequate by Senate.

Selection criteria

The Master of Nursing is a selection programme. The following selection criteria apply:

- an average mark of at least 65% for the last qualification obtained; and
- at least two years' experience as a professional nurse.

Duration of programme

The programme extends over two years.

Programme content

First year

Research Methodology	872(60)
Contemporary Health and Nursing Practices	874(35)

Second year

Research Assignment	876(85)
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Assessment and examination

- Flexible assessment takes place during the first year.
- You must achieve a class mark of at least 40% in each module to qualify for the examination in each module.
- You must achieve a final mark of 50% in each module.
- The class and examination marks contribute 50% each towards the final mark for each module.
- The final mark for the first year of study is calculated as the weighted average of the marks for the two first-year modules.
- Flexible assessment takes place during the research process in the second year, with assessment by an internal and an external examiner on completion of the research assignment. A minimum mark of 50% is required for the research assignment.
- The final mark for the programme is calculated according to the credit weights of the individual modules. You must obtain a final mark of at least 50% to pass the programme.
- You will only be permitted to register for theoretical modules twice. If you still fail a theoretical module after two registrations, you will not be allowed to register for the programme again.
- If you fail to complete the programme by the third year of study, you must submit a motivation to continue in the fourth year. This motivation will be considered by the Postgraduate Programme Committee of the Department of Nursing and Midwifery.

5.3.7.2. Master of Nursing (thesis option)

Specific admission requirements

One of the following qualifications:

- a Bachelor of Nursing Honours degree;
- a four-year professional bachelor's degree in Nursing (NQF level 8; credit value 480); or
- an equivalent qualification as approved by Senate.

Selection criteria

The Master of Nursing is a selection programme. The following selection criteria apply:

- an average mark of at least 65% for the last qualification obtained; and
- at least two years' experience as a professional nurse.

Duration of programme

The programme extends over one year.

Programme content

Research Thesis	881(180)
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Assessment and examination

- Flexible assessment takes place during the research process, as well as assessment by an internal and an external examiner on completion of the thesis. This assessment also includes an oral examination.
- The final mark for the thesis is calculated as follows:
 - internal examiner – 30%;
 - external examiner – 30%;
 - supervisor – 10% and
 - oral examination – 30%.
- You must obtain a minimum final mark of 50% for the thesis to pass the programme.
- If you fail to complete the programme by the second year of study, you must submit a motivation to continue in the third year. This motivation will be considered by the Postgraduate Programme Committee of the Department of Nursing and Midwifery.

5.3.8 Master of Occupational Therapy*Specific admission requirements*

- A four-year B degree in Occupational Therapy or an equivalent qualification approved for such purpose by Senate.
- For direct admission to the Master of Occupational Therapy degree programme (thesis option), you must have completed an approved curriculum of research methodology and/or advanced study at this University or elsewhere.
- For admission to the Hand Therapy field of study, you must have previous experience of at least one year in the treatment of patients with hand conditions/injuries. If you are admitted to the Hand Therapy field of specialty, you must work in areas where you will be able to treat patients with hand conditions/injuries for the duration of the programme.

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**.

Senate, or the Executive Committee acting on its behalf, will decide if you may be admitted to the programme.

Programme description

The programme aims to:

- equip you with advanced knowledge in order to develop an understanding of the theory pertaining to the profession of occupational therapy
- ensure mastery of the profession by means of the analysis of new information and the application thereof to address problems and challenges within the profession;
- educate you in research methodology, thereby enabling you to perform advanced and independent research that will culminate in the publication of articles;
- prepare you to undertake further studies; and
- qualify you as a professional who will competently advance Occupational Therapy.

You can follow one of two streams for the Master in Occupational Therapy programme, namely:

- Master in Occupational Therapy (structured option); and
- Master in Occupational Therapy (thesis option).

The two streams are discussed separately in more detail below.

Enquiries

Programme leader: Prof L van Niekerk

Tel: 021 938 9292 E-mail: lanavn@sun.ac.za

Website: <http://www.sun.ac.za/english/faculty/healthsciences/>

5.3.8.1. Master of Occupational Therapy (structured option)

Duration of programme

The programme extends over a minimum of two years.

Programme description

You pursue a two-year modular programme that is offered in a three-year cycle. The programme consists of research and advanced studies on several broad subjects as determined by the Division and an assignment. You have a choice of four speciality fields of study:

- Hand Therapy;
- Paediatrics;
- Psychosocial; and
- Work Practice.

Programme content

First year

Compulsory modules

The Research Methodology and Statistics module is offered in the first two years of the three-year cycle.

Research Methodology and Statistics	871(15)
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Second year

Compulsory modules

Research Assignment	872(60)
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Generic Occupational Therapy modules

Generic Occupational Therapy modules are offered every third year and are compulsory.

Occupational Science	872(15)
Models in Occupational Therapy	872(15)
Occupational Therapy Practice	872(15)

Modules in field of specialty

Fields of specialty modules are offered every third year.

Occupational Therapy Practice: Assessments in Speciality Field of Study	876(20)
Occupational Therapy Practice: Interventions in Speciality Field of Study	871(40)

Assessment and examination

- The programme is subject to flexible assessment in the form of written and oral assessments and assignments.
- The assignment is an opportunity to assess your ability in terms of the following:
 - integration and application of advanced knowledge,
 - critical and creative thinking,
 - advanced clinical reasoning and
 - management of outcomes (of services on all levels, your own development and the management of processes).
 The assignment must be presented as a thoroughly conceptualised, well-formulated, logical and coherent document.
- A weighted mark is calculated on the basis of the credit values of the modules.
- To pass the programme, you must obtain a final mark of at least 50% in each module. The weighted marks of the respective modules contribute 50% to the calculation of the final mark. The final mark is calculated as the weighted average of the teaching modules (50%) and the assignment (50%).
- Internal and external moderation will take place according to University regulations.
- To qualify for a supplementary examination in a module, you must obtain a final mark of at least 40%. After the supplementary examination a final mark of 50% will be awarded if the examination mark is 50% or higher. If you obtain a mark of less than 50% in the supplementary examination, you must repeat the module when it is offered in the next three-year cycle.

5.3.8.2. Master of Occupational Therapy (thesis option)

Duration of programme

The programme extends over a minimum of one academic year.

Programme description

This programme choice consists of a thesis only. The thesis contains the results of independent research on a topic you choose in consultation with the head of the Division.

Programme content

Thesis	895(180)
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Assessment and examination

- The thesis integrates a comprehensive literature review, data collection and analysis, discussion of results and recommendations.
- The study is presented in a thoroughly conceptualised, well-formulated, logical and coherent document.
- You must obtain a mark of at least 50% to pass the thesis.

5.3.9 Master of Pathology*Specific admission requirements*

One of the following qualifications:

- a BScHons degree with Pathology, Morphological Sciences, Anatomy, Physiology, Histology, Chemistry, Biology, Genetics or Microbiology, or another qualification approved for such purposes by Senate. If you have another major subject in the biological sciences at honours level, you may be admitted based on adequate motivation and the successful completion of an admission examination; or
- a BTech degree on condition that you meet the requirements as defined by Stellenbosch University.

Depending on the field of study, additional work and/or proof of competence may be required.

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**.

Duration of programme

The programme extends over a minimum of two years.

Programme description

This research-based programme comprises an approved research project, a thesis, an oral presentation and a student portfolio. The research project can be in Anatomical, Chemical or Haematological Pathology, or Immunology.

Programme content

Choose one of the following modules.

Thesis (Anatomical Pathology)	871(180)
Thesis (Chemical Pathology)	871(180)
Thesis (Haematological Pathology)	871(180)
Thesis (Immunology)	871(180)

Assessment and examination

- The initial research protocol is approved by the relevant faculty committee, as well as by the relevant divisional and/or departmental research committee. Progress of experimental work is continuously monitored by the supervisor(s).
- You must complete a research project which is assessed according to University guidelines through a process of internal and external examination. You must also do an oral presentation on completion of the research project and submit a student portfolio which includes a detailed log-book of all activities during the time of study.
- The final mark is calculated from the marks obtained for the thesis, presentation and portfolio.
- You must obtain a mark of 50% to pass and a mark of 75% or more to pass with distinction.

Enquiries

Enquiries	Division	E-mail	Telephone
Prof JW Schneider	Anatomical Pathology	jws2@sun.ac.za	021 938 4041
Prof MJ Kotze	Chemical Pathology	maritha@sun.ac.za	021 938 4168 021 938 4107
Dr CC Swanepoel	Haematological Pathology	carmens@sun.ac.za	021 938 4103 021 938 4608

5.3.10 Master of Physiotherapy

Specific admission requirements

- One of the following qualifications:
 - a four-year bachelor's degree in Physiotherapy or an equivalent qualification approved by Senate for such purposes, and registration as a Physiotherapist or Physiotherapy student with the South African Health Professions Council; or
 - a diploma in Physiotherapy, provided that:
 - this takes place on the recommendation of the Committee for Postgraduate Education;
 - you have remained academically and professionally active in the specific field since obtaining the diploma;
 - you have evidence that you have passed the Orthopaedic Manual Therapy I (OMT I) course;
 - you completed a preliminary examination to the satisfaction of the Committee for Postgraduate Education; and
 - supplementary work may be required;
- A minimum of one year of clinical experience in Physiotherapy after obtaining the bachelor's degree.
- For admission to the structured Master's degree in Physiotherapy (Ortho-manipulative Therapy), you must (in addition to the above requirements) provide evidence of:
 - successful completion of the Orthopaedic Manual Therapy I (OMT I) programme; or
 - appropriate clinical experience and continuous professional education.

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**.

The divisional Postgraduate Committee selects a number of suitable candidates after the closing date. If it's necessary, candidates may be invited for an interview before the final selection. Senate, or the Executive Committee acting on its behalf, will decide which candidates will be admitted to the programme.

Programme description

The aim of the programme is to:

- equip you with advanced knowledge and skills in the chosen field of Physiotherapy;
- advance your ability to acquire higher-order skills with regard to the critical analysis and evaluation of knowledge and skills;
- equip you with the necessary skills in order to undertake original, advanced and independent research in the field of Physiotherapy;
- prepare you for various forms of scientific professional communication; and
- produce professionals with the skills and critical cognitive capability to advance the profession and to contribute to a pool of professional and academic practitioners in the field of Physiotherapy.

You can follow one of two options for the Master of Physiotherapy programme, namely:

- Master of Physiotherapy (structured option); and
- Master of Physiotherapy (thesis option).

The two options are discussed separately in more detail below.

Enquiries

Programme leader: Dr D Ernstzen

Tel: 021 938 9304 E-mail: dd2@sun.ac.za

Programme administrator: Mr M Mbebe

Tel: 021 938 9037 E-mail: mmbebe@sun.ac.za

Website:

http://www.sun.ac.za/english/faculty/healthsciences/Physiotherapy/Pages/Education/Postgraduate_Programmes.aspx

5.3.10.1. Master of Physiotherapy (structured option)

Duration of programme

The programme extends over a minimum of two years on a part-time basis.

Programme description

The programme consists of six modules, a research project, a thesis and an oral examination. The field of specialty for this programme is Ortho-manipulative Therapy.

Programme content

Biomechanics	873(8)
OMT – Approaches and Concepts	863(20)
OMT – Upper Quadrant	873(12)
OMT – Lower Quadrant	882(15)
OMT – Integrated and Advanced Practice	852(10)
OMT – Clinical	892(25)
Thesis (Physio – OMT)	894(90)

Assessment and examination

- You must obtain a minimum mark of 50% in each module to pass.
- The theoretical modules are subject to flexible assessment by means of clinical portfolios, written tests, clinical, written and oral presentations and reports.
- Regarding the thesis module, flexible assessment of your progress will take place during the research process. You complete a research project, leading to the submission of a thesis which is assessed according to University guidelines through a process of internal and external examination.
- The assessment of the thesis includes an oral examination.
- The final mark is calculated from a flexible assessment mark (10%) and the marks awarded by the examiners. In order to pass, you must achieve a minimum final mark of 50% for the thesis module.

5.3.10.2. Master of Physiotherapy (thesis option)*Duration of programme*

The programme extends over a minimum of one year on a full-time basis or two years on a part-time basis.

Programme description

This research-based programme consists of class assessments, an approved research project, a full thesis and an oral examination.

Programme content

The thesis topic is determined in conjunction with the supervisor.

Thesis (Physiotherapy)	872(180)
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Assessment and examination

- The assessment consists of a class mark component (10%) and a final thesis examination mark (90%).
- For the final thesis examination, you must complete a research project, leading to the submission of a thesis which is assessed according to University guidelines through a process of internal and external examination.
- The assessment of the thesis also includes an oral examination.
- In order to pass, you must achieve a minimum final mark of 50% for the thesis module.

5.3.11 Master of Public Health Nutrition*Specific admission requirements*

- An NQF level 8 qualification (or international equivalent) in Health Science, Science or Agricultural Science.
- Experience and practice in public health nutrition will serve as an additional advantage.
- For admission to the research stream, you must have knowledge of research methodology and experience in the planning and implementation of a research project (at undergraduate level and professionally), or you must have otherwise attained a standard of competence deemed adequate for such purpose by Senate.

Programme description

You can follow one of two streams for the Master of Public Health Nutrition programme, namely:

- Master of Public Health Nutrition (structured option); and
- Master of Public Health Nutrition (thesis option).

The structured stream is presented by means of technology-mediated teaching and learning.

The two streams are set out separately in more detail below.

Enquiries

Programme leader: Mrs J Visser

Tel: 021 938 9259 E-mail: jconrad@sun.ac.za

Website: <http://www.sun.ac.za/nutrition>

5.3.11.1. Master of Public Health Nutrition (structured option)*Application procedure and closing date*

Apply online at www.maties.com by 31 July of the previous year.

Only a limited number of students are selected annually.

Duration of programme

The programme extends over a minimum period of two years.

Programme description

This is a structured programme which comprises various theoretical modules and a research project (50% of the total credits). If the academic year extends over 40 weeks, the expectation is that you will use 22,5 hours per week to complete the programme.

*Programme content***First year***Compulsory modules*

Nutritional Epidemiology	811(30)*
Public Health Nutrition Policies and Programming	812(15)

* Nutritional Epidemiology 811 is a prerequisite pass module for Research Thesis 875.

Elective modules

Choose any three of the following modules. A particular elective module is only presented if there are at least four students who would like to take that module.

Advanced Nutrition Analysis	812(15)
Food Security	812(15)
Food, Nutrition and Livelihood in Humanitarian Emergencies	812(15)
Nutrition and Economic, Human and Social Development	812(15)
Nutrition in Health and Disease Prevention	812(15)
Nutrition, Health and the Environment	812(15)

Second year

Research Thesis	875(90)
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Assessment and examination

- Final marks for the theoretical modules are calculated by adding the class mark for SUNLearn forum discussions and SUNLearn written assignments/tasks (35%) and the examination mark (65%).
- You will only be permitted to register for theoretical modules twice. If you still fail a theoretical module after two registrations, you will not be readmitted into the programme.
- The final mark for the research project is calculated as follows:
 - class mark (protocol) – 15%;
 - project execution – 10%;
 - average of the internal and external examiners' marks for the thesis – 65%; and
 - oral examination – 10%.
- The final degree mark is calculated by adding the average of the final marks for the theoretical modules (50%) and the final mark for the research project (50%).
- An oral examination by the examiners is compulsory.

5.3.11.2. Master of Public Health Nutrition (thesis option)*Application procedure and closing date*

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**.

Only a limited number of students are selected annually.

Duration of programme

The programme extends over a minimum period of two years.

Programme description

The programme comprises a research project (100% of the total credits) with no theoretical modules. If the academic year extends over 40 weeks, as a full-time student you must use 45 hours per week to complete the programme. However, if you are a part-time student, you must use 22,5 hours per week to complete the programme.

You must plan and implement a research project and submit a thesis or preferably two articles for publication in a peer-reviewed journal, in the format specified in the study guide.

Programme content

Research Thesis	888(180)
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Assessment and examination

- The final degree mark is calculated as follows:
 - protocol – 15%;
 - project execution – 10%;
 - average of the internal and external examiners' marks for the thesis – 65%; and
 - oral examination – 10%.
- An oral examination by the examiners is compulsory.

5.3.12 Master of Speech-Language Therapy*Specific admission requirements*

- The four-year Bachelor's degree in Speech-Language and Hearing Therapy from Stellenbosch University, or a four-year Bachelor's degree in Speech-Language Therapy from another accredited university, or an equivalent qualification as approved by Senate.

Application procedure and closing date

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**.

Only a limited number of students are selected annually. Senate, or the Executive Committee acting on its behalf, will decide which candidates will be admitted to the programme.

On application for admission you must submit a preliminary research proposal to the head of the Division for approval, as agreed with the latter.

Duration of programme

The programme extends over one year on a full-time basis or two years on a part-time basis.

Programme content

Thesis: Speech-Language Therapy	872(180)
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Assessment and examination

- The thesis is assessed by at least one internal and one external examiner and will contribute 100% to the final mark of the programme.
- The assessment includes an oral examination.
- In order to pass the programme, you must achieve a final mark of at least 50% for the thesis.

Enquiries

Programme leader: Dr B Gerber

Tel: 021 938 9494 E-mail: berna@sun.ac.za

5.3.13 Master of Therapeutic Nutrition*Specific admission requirements*

- One of the following:
 - A relevant bachelor's degree at NQF level 8 (or international equivalent) and proof that you completed at least Therapeutic Nutrition (at an advanced level), as well as Physiology, Biochemistry and Research Methodology;
 - A standard of competence you have otherwise attained and which is deemed adequate for such purpose by Senate.
- For the research stream, you must have experience in planning and implementing a research project at undergraduate and professional level.

Programme description

You can follow one of two streams for the Master of Therapeutic Nutrition programme, namely:

- Master of Therapeutic Nutrition (structured option); and
- Master of Therapeutic Nutrition (thesis option).

The structured stream is presented by means of technology-mediated teaching and learning. You must attend one contact session of one week per year for both the structured and research streams.

The two streams are discussed separately in more detail below.

Enquiries

Programme leader: Mrs J Visser

Tel: 021 938 9259 E-mail: jconrad@sun.ac.za

Website: <http://www.sun.ac.za/nutrition>

5.3.13.1. Master of Therapeutic Nutrition (structured option)*Application procedure and closing date*

Apply online at www.maties.com by **31 July** of the previous year. Only a limited number of students are selected annually.

Duration of programme

The programme extends over a minimum of two years.

Programme description

The structured programme which comprises three theoretical modules and a research project (50% of the total credits). If the academic year extends over 40 weeks, the expectation is that you will use 22,5 hours per week to complete the programme.

*Programme content***First year**

Basic Nutritional Principles of Gastrointestinal Disorders	811(15) (This is a prerequisite pass module for Therapeutic Nutrition 812)
Nutritional Epidemiology	811(30) (This 811 is a prerequisite pass module for Research Project 882)

Second year

Therapeutic Nutrition	812(45)
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First and second years

Research Project	882(90)
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Assessment and examination

- Final marks for theoretical modules are calculated by adding the class mark from SUNLearn forum discussions and SUNLearn written assignments (35%) to the examination mark (65%). A minimum final mark of 50% is required for each of the three study units of the Therapeutic Nutrition module.
- You will only be permitted to register for theoretical modules twice. If you still fail a theoretical module after two registrations, you will not be readmitted into the programme.
- The final mark for the research project is calculated as follows:
 - class mark (protocol) – 15%;
 - project execution – 10%;
 - average of internal and external examiners' marks for the thesis – 65%; and
 - oral examination – 10%.
- The final degree mark is calculated by adding the final marks of the theoretical modules (50%) to the final mark for the research project (50%).
- An oral examination by the examiners is compulsory.

5.3.13.2. Master of Therapeutic Nutrition (thesis option)*Application procedure and closing date*

Apply online at www.maties.com by **30 September** of the previous year. Applications for prospective international students close on **31 August**. Only a limited number of students are selected annually.

Duration of programme

The programme extends over a minimum period of two years.

Programme description

The programme comprises a research project (100% of credits) with no theoretical modules. If the academic year extends over 40 weeks, you must use 45 hours per week to complete the programme as a full-time student. If you are a part-time student, however, you must use 22,5 hours per week to complete the programme.

You must plan and implement a research project and submit a thesis or, preferably, two articles for publication in a peer-reviewed journal, in the format specified in the study guide.

Programme content

Thesis (Nutritional Sciences)	872(180)
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Assessment and examination

- The final degree mark is calculated as follows:
 - protocol – 15%;
 - project execution – 10%;
 - average of the internal and external examiners' marks for the thesis – 65%; and
 - oral examination – 10%.
- An oral examination by the examiners is compulsory.

5.4 Doctoral degrees**5.4.1 Doctor of Philosophy***Specific admission requirements*

- You can be admitted to the degree PhD in Medical Sciences provided that:
 - a minimum period of two years has passed since obtaining the degree MBChB or BChD; or
 - you have obtained a relevant honours degree in Medical Sciences directly following an MBChB or BChD degree; or
 - you have obtained a master's degree in Occupational Therapy, Nursing, Nutrition/Dietetics, Physiotherapy, Speech-Language Therapy or Health Related and Social Sciences; or
 - you have obtained a relevant MSc degree (Master of Science) of the University, or another university approved by Senate; or
 - you have obtained another qualification (and have allowed for the required period following the qualification) that is deemed sufficient by Senate.
- You must comply with all the other provisions for doctorates, as stipulated under Postgraduate Qualifications in Part 1 (General) of the Calendar, as well as in the Briefing Document on D degrees.
- You can be admitted to the Doctor of Philosophy degree in Health Professions Education (PhD in HPE) provided that:
 - you have obtained a relevant qualification in the Health Sciences and/or have relevant experience in the Health Sciences, and you have been awarded an M degree in Health Professions Education or Higher Education, or you have proven and relevant experience with educational research and/or relevant research in the social sciences; or
 - you have obtained another qualification (and have allowed for the required period following the qualification) that is deemed sufficient by Senate, and you have proven and relevant experience with educational research and/or relevant research in the social sciences.
- You can be admitted to the Doctor of Philosophy in Clinical and Research Ethics provided that:
 - you have obtained an MBChB degree or a basic degree in the Health Sciences, a master's degree in the field of Bioethics, the Health Sciences or a relevant field, and a postgraduate diploma in Applied Ethics or Health Research Ethics;
 - you have appropriate qualitative research experience in the field of Bioethics; and
 - you are working in a Health Sciences or Bioethics environment.

Please note: Admission requirements are subject to amendment based on new requirements of the Department of Higher Education and Training.

Application procedure and closing date

You may apply online at www.maties.com, but you must also request guidelines and other specific application forms from the Doctoral Office (Tygerberg Campus). On application for registration, you must provide the Doctoral Office with all application forms, accompanied by recently certified copies of certificates if previous qualifications were not obtained at Stellenbosch University.

Duration of programme

The maximum duration is five years. Your supervisor may submit an acceptable motivation for the extension of the period to the Committee for Postgraduate Research of the Faculty, at least six months prior to the expiry of the five years.

Programme description

The Doctorate in Philosophy (PhD) can be obtained in the following disciplines of the Medical and Health Sciences:

- Anaesthesiology
- Anatomical Pathology
- Anatomy
- Audiology
- Chemical Pathology
- Clinical and Research Ethics
- Dermatology
- Emergency Medicine
- Epidemiology

- Family Medicine
- Haematological Pathology
- Health Professions Education
- Health Sciences Rehabilitation
- Human Genetics
- Internal Medicine
- Medical Microbiology
- Medical Physics
- Medical Physiology
- Medical Virology
- Molecular Biology
- Morphological Sciences
- Neurosurgery
- Nuclear Medicine
- Nursing
- Nutritional Sciences
- Obstetrics and Gynaecology
- Occupational Therapy
- Ophthalmology
- Orthopaedic Surgery
- Otorhinolaryngology
- Paediatrics
- Pharmacology
- Physiotherapy
- Plastic and Reconstructive Surgery
- Psychiatry
- Public Health Medicine
- Radiobiology
- Radiological Diagnosis
- Radiotherapy and Radio Isotopes
- Speech-Language Therapy
- Sport Psychology
- Sport Science
- Surgery
- Thoracic Surgery
- Urology

Assessment and examination

- The PhD degree is awarded in recognition of high quality, original research and is conventionally assessed based on a dissertation.
- In addition a PhD degree may be obtained in an alternative way, namely primarily based on published scientific articles. However, it is not possible to obtain a PhD degree exclusively on the basis of published articles. More details regarding the different formats can be obtained from the Doctoral Office (Tygerberg Campus).
- With regard to the date of submission of the dissertation, the number of copies to be submitted, as well as the further requirements with which you have to comply in order to graduate, the general provisions for doctorates will apply as stipulated under Postgraduate Qualifications in Part 1 (General) of the Calendar, as well as in the Faculty of Medicine and Health Sciences' guidelines document, General Information on Doctoral Studies, which is available at the Doctoral Office (Tygerberg Campus).
- The PhD degree is not regarded as basis for registration as a specialist with the Health Professions Council of South Africa or the South African Nursing Council, but can be registered as an additional qualification (Medical Sciences only).
- The PhD degree may be awarded to you:
 - after you have been registered for the PhD degree at the University for at least two academic years;
 - on the condition that – with the supervisor's consent – you give written notice to the Doctoral Office (Tygerberg Campus) of your intended submission date at least six months prior to the desired date of graduation;
 - based on a dissertation – under supervision by a supervisor – that covers a problem from an area in the Medical and Health Sciences or Health Professions Education (in the case of a PhD in HPE). The dissertation must provide proof to the satisfaction of the University of advanced, original work, which contributes to the enhancement of fundamental, theoretical and/or clinical knowledge in the particular field of research;

- provided that the dissertation is accompanied by a statement confirming that it has not previously been submitted to another university or institution in order to obtain a degree or diploma, and that it is your own work; and
- after you have passed an oral examination. An oral examination for the doctorate is a general requirement, apart from the advanced doctorates, but subject to the approval of Senate, exemption from this examination may be granted in specific cases based on sufficient motivation.

5.4.1.1. PhD in Bioinformatics and Computational Biology

Please note: This programme will be offered from 2022, subject to accreditation by the South African Qualifications Authority (SAQA).

The programme is offered as a multidisciplinary programme within the Faculties of AgriSciences, Medicine and Health Sciences, and Science. You enrol in the faculty where your research focus and supervisor(s) are situated, and will graduate with the degree from that faculty.

Programme Description

A publication-ready dissertation containing the results of your independent research is required.

5.4.1.2. PhD in Sport Psychology

Admission requirements

- A master's degree in Psychology (Counselling, Clinical, Educational or Industrial Psychology).
- A Sport Science qualification and/or other qualification deemed to be adequate for admission to the programme.
- You must be registered with the Health Professions Council of South Africa (HPCSA).

Enquiries

Programme leader: Dr HW Grobbelaar

Tel.: 021 808 4771 E-mail: hgrobelaar@sun.ac.za

5.4.1.3. PhD in Sport Science

Admission requirements

- a) You must have one of the following qualifications:
 - a master's degree in Sport Science from this University;
 - another master's degree approved for such purpose by Senate; *or*
 - a standard of competence in your particular field of study attained in some other manner and deemed adequate by Senate for admission to the programme.
- b) After having consulted with the departmental chair, you must apply for admission in writing. State the proposed dissertation topic, supervisor and places of study.
- c) You must also submit a research proposal and an academic transcript.

The Postgraduate Programme Committee will decide on admission, taking the infrastructure of the Department into account.

Enquiries

Programme leader: Prof E Terblanche

Tel.: 021 808 2742 E-mail: et2@sun.ac.za

5.4.2 Doctor of Science

Specific admission requirements

- The degree DSc can be awarded to you, provided that you:
 - have done advanced research and/or creative work in the field of Health Sciences to the satisfaction of the University;
 - have submitted original, already published work(s) of a high quality that covers a central theme, and proves to Senate your significant and outstanding contribution to the enhancement of knowledge regarding Health Sciences.
- If you already hold a Doctorate in Philosophy in the Faculty of Medicine and Health Sciences, or another qualification that Senate deems equivalent, you must:
 - be enrolled at this University for at least one academic year prior to being awarded the degree; and
 - inform the Registrar in writing of your intention to do so, including the title(s) and scope of the proposed work(s), at least one year prior to reporting as candidate for the degree. If Senate accepts your application, a supervisor and examiners will be appointed.
- If you do not yet hold a Doctorate in Philosophy in the Faculty of Medicine and Health Sciences, or another qualification that Senate deems equivalent, you must:
 - be enrolled at this University for at least three academic years prior to being awarded the degree; and
 - inform the Registrar in writing of your intention to do so, including the title(s) and scope of the proposed work(s), at least three years prior to reporting as candidate for the degree. If Senate accepts your application, a supervisor and examiners will be appointed.

- A minimum period of five years must have passed since you have been awarded said Doctorate in Philosophy or another degree or qualification.

Duration of programme

The maximum duration is five years. Your supervisor may submit an acceptable motivation for the extension of the period to the Committee for Postgraduate Education of the Faculty, at least six months prior to the expiry of the five years.

Assessment and examination

- Prior to 1 August, if you want to graduate in December, or prior to 15 October, if you want to graduate in March, you must submit to the University office four copies of the work(s) you want to present, accompanied by a statement confirming that it is your own work and that it has not previously been submitted to another university in order to obtain a degree. Where a significant part of the submitted work(s) has not been published in your name alone, you must provide sufficient proof of your contribution, and mention who initiated the work, under whose leadership it was been done, who executed, processed and formulated it, and which part, if any, was already submitted to another university to obtain a degree.
- With regard to the date of submission of the work(s), the number of copies to be submitted, as well as the further requirements with which you have to comply in order to graduate, the general provisions for doctorates will apply as stipulated under Postgraduate Qualifications in Part 1 (General) of the University Calendar, as well as in the Briefing Document on D degrees of the Faculty of Medicine and Health Sciences.

5.4.3 Transdisciplinary Doctoral Programme focusing on Complexity and Sustainability Studies

Inter-departmental and faculty offering

The Faculty of Medicine and Health Sciences, in cooperation with the Faculties of Arts and Social Sciences, AgriSciences, Engineering, Economic and Management Sciences, Law, Science and Theology, offers you an opportunity, if you want to do research on finding sustainable solutions to complex social-natural systems problems that cannot necessarily be studied from a particular, mono-disciplinary perspective, to enrich your doctoral studies in any of these faculties through courses on the theory and practice of transdisciplinarity. The current local-global challenges and crises experienced around the issues of poverty, urbanisation, water, waste, energy, food, soil, conflict and violence, equity and justice, etc. are typical problems/themes that lend themselves to research in this regard.

Application procedure

You submit your doctoral research proposal to a panel of supervisors constituted by representatives of the participating faculties. These representatives are appointed by the deans of the participating faculties. The panel of supervisors will, in consultation with you, evaluate the research proposal for its transdisciplinary merits and will recommend an appropriate multi-disciplinary team of main and co-supervisors if your research proposal is successful. This panel will also recommend an appropriate academic department and faculty in which the research is registered. The usual criteria and processes of admission, registration and the appointment of the doctoral supervisor(s) of the participating faculties apply.

Please note: Enrolment to the programme is only accepted every third year. In addition to completing the normal University postgraduate application forms, you must complete and return in writing the necessary application forms for this programme. See the section “Enquiries” below for contact details.

Duration of programme

This is a full-time two-year programme during which you will, as far as practically possible, be located with other students so as to ensure maximum transdisciplinary synergy with and between fellow students and supervisors. You will also be allowed additional time to complete your dissertation.

Programme description

This programme entails a dissertation constituting all the credits of the degree. A set of core modules, presented by international and local experts, in the areas of transdisciplinary epistemology, methodology and complexity theory will be offered at the commencement of the programme. These modules are not credit bearing. However, written assessment of a thorough understanding of the material covered during these modules will be a requirement for proceeding with the programme. Furthermore, for the duration of the programme you must attend a regular postgraduate seminar series, giving you the opportunity to present and discuss your work-in-progress with fellow students and their supervisors.

Please note: The doctoral qualification of the faculty in which you are registered, is conferred.

Programme outcomes

This doctoral programme aims to:

- equip you with a profound new understanding of the complex nature of the problems facing the African continent and the world at large; and
- develop your cross-disciplinary thinking skills necessary to participate in multi-disciplinary teams intent on finding long-term, holistic solutions.

Assessment and examination

The usual examination procedures of the University and the faculty in which you are registered apply.

Funding and bursaries

If you are admitted to this programme, you will be eligible to apply for bursaries made available by the University and other funding institutions in this regard. More details and application forms can be obtained from the programme leader.

Enquiries

Applications forms can be requested from:

John van Breda
Coordinator: Transdisciplinary Doctoral Programme
Room 1019, AI Perold Building
Stellenbosch University
Tel: 021 808 2152
Fax: 021 808 2085
E-mail: jrvb@sun.ac.za

Subjects, Modules and Module Contents

1. Definitions and explanations of important terms and language specifications

It is important that you take note of the definitions of a few terms in order to understand and use this chapter fully. The example below shows how these terms will appear later in this chapter under the module contents.

Example:

65684 Life-forms and Functions of Clinical Importance

111 (17) Life-forms and Functions of Clinical Importance (6L)

1.1 Explanation of the abovementioned terms

- *Five-digit subject number –*

65684 Life-forms and Functions of Clinical Importance

Each subject is identified by this five-digit subject number. The subject number “65684” refers to the subject Life-forms and Functions of Clinical Importance.

- *Subject name –*

65684 Life-forms and Functions of Clinical Importance

The specific name of the subject is presented right next to the five-digit subject number, before the various modules of the subject are offered. Normally the subject name is followed by the module code and the credit value of the specific module, for example in this case: Life-forms and Functions of Clinical Importance 111 (17).

- *Module code –* **111(17) Life-forms and Functions of Clinical Importance**

The module code consists of a three-digit number that is unique to the specific module. The abovementioned module code “111” has the following meaning:

- The first digit “1” refers to the year of study in which the module is presented, for example:

Year 1: 111

Year 2: 211

Year 3: 311

- The second digit “1” refers to the semester that the module will be presented in and also serves as a number to distinguish between various modules offered within the same specific year of study. The University uses different numbers to indicate the particular semester of a module, either the first or the second semester or modules

that are presented in both semesters (which are year modules). The numbers that indicate semesters are as follows:

- **1, 2 or 3** – modules are presented in the first semester.

Semester 1: 214, 324, 334

- **4, 5 or 6** – modules are presented in the second semester.

Semester 2: 342, 354, 364

- **7, 8 or 9** – modules are presented in both semesters, which are year modules.

Year modules (both semesters): 278, 288, 391

- The third digit of the module code 111, in this case “1” serves as a distinguishing digit between various modules of the same subject in a particular year of study.
- Therefore, the module Life-forms and Functions of Clinical Importance 111 is a module that is presented in the first semester of the first year.

- *Credit value –* **111(17) Life-forms and Functions of Clinical Importance**

The number in brackets indicates the credit value of the particular module. You therefore obtain 17 credits for Life-forms and Functions of Clinical Importance 111.

- *Module topic –* **111 (17) Life-forms and Functions of Clinical Importance**

This indicates the topic that will be dealt with in this specific module.

- *Teaching load –* **111 (17) Life-forms and Functions of Clinical Importance (6L)**

The teaching load of a module is indicated next to the module subject. It gives you both the teaching load and the type of teaching per week that you can expect in this particular module. For example, for the module Life-forms and Functions of Clinical Importance 111 (17) you can expect six lectures each week for the duration of the module. The following abbreviations are used for the teaching load:

- **L** –Lecture lasting 50 minutes each, for example 3L

- **P** – Practical period lasting 50 minutes, for example 1P, 2P, 3P
- **S** – Seminar lasting 50 minutes, for example 1S
- **T** – Tutorial lasting 50 minutes, for example 1T, 2T
- **Weeks** – Number of weeks during which only this module is taken

1.2 Condition for the granting of a qualification or degree

The Faculty will only award a qualification if you have passed all the prescribed prerequisite and corequisite modules of the specific programme of study.

2. Subjects, modules and module contents

The subjects with their accompanying modules, credits, module topics, teaching loads, and module contents are presented below.

14365 Adult Infectious Diseases

775 (30) Adult Infectious Diseases

Students will study an approach to the systematic evaluation of a patient with infection, common community-acquired infections, tropical and travel-related infections, fever of unknown origin, sepsis and septic shock in adults. Transversal themes of infection prevention and control, antimicrobial stewardship, reproductive health, infection-related imaging and basic biology and laboratory diagnosis form an integral part of this module.

Home department: Infectious Diseases

14209 Advanced Epidemiology

875 (12) Advanced Epidemiology

This module will cover advanced epidemiological principles, theory and analytical application, building on fundamentals of epidemiology and biostatistics. The module will cover causal models and theory, epidemiological study designs, analysis and reporting, including measures of effect and occurrence, confounding, effect modification, interaction and meta-analysis.

Home department: Global Health

10999 Advanced Hyperbaric Medicine

774 (20) Advanced Hyperbaric Medicine

The module indicates the limits of current knowledge about hyperbaric medicine, and prepares the student for the module on research methodology and for the research project.

Home department: Health Systems and Public Health

13497 Advanced Nutrition Analysis

812 (15) Advanced Nutrition Analysis

This module will focus on a thorough review of the techniques used for the assessment of health and nutritional status of individuals, communities and populations. The topics include anthropometrical, biochemical and socioeconomic indicators of nutritional status; methods for the collection, analysis, and interpretation of dietary data; measurement of household, community and population food and nutrition security; and the use of data from nutrition monitoring and surveillance.

Home department: Human Nutrition

11090 Advanced Studies in Audiology

812 (45) Advanced Studies in Audiology

The content of this module will be determined by the head of the Division in consultation with the student.

Home department: Speech-Language and Hearing Therapy

11000 Advanced Underwater Medicine

774 (20) Advanced Underwater Medicine

This module indicates the limits of current knowledge of underwater medicine. It prepares the student for the module on research methodology and for the research project.

Home department: Health Systems and Public Health

11524 African Emergency Care

871 (15) African Emergency Care

This semester module is a core module for the MPhil (Emergency Medicine) programme with the following objectives: to develop a rational evidence-based approach to clinical problems in emergency care and to develop further knowledge and skills for managing complex emergencies. The module covers African epidemiology, systems development and implementation in emergency care.

The assessments of module assignments contribute 40% of the final mark, the final written examination contributes 30% and the final project contributes 30%.

Home department: Emergency Medicine

57487 Afrikaans Language Acquisition

178 (24) Afrikaans for Foreign Language Speakers (3L, 2P)

Only students with no training in Afrikaans or who had Afrikaans as a Second Additional Language are admitted to this module. An integrated approach is followed in the module to study the four communication skills – reading, listening, talking and writing.

Elementary interaction around a narrative text and thematically related texts (general and literary).

Strategic reading and listening skills in academic lecture situations.

Relevant language study and vocabulary enhancement.

Notes

1. Recommendations on the placing of students in Afrikaans Language Acquisition 178 or in Afrikaans Language Acquisition 188 are based on departmental language-proficiency tests which are written at the beginning of the year.
2. Students of Speech-Language and Hearing Therapy I of the Faculty of Medicine and Health Sciences are placed in either Xhosa 178 or Afrikaans Language Acquisition 178 or 188 according to a language proficiency test.
3. This module does not lead to Afrikaans and Dutch 278.
4. See the departmental information document for further details.

A system of flexible assessment is used in Afrikaans Language Acquisition 178. Students are informed in writing at the beginning of the module about the way in which the final mark is calculated and receive regular feedback on their progress in the course of the module. An oral exam takes place at the end of each semester.

Home department: Afrikaans and Dutch

188 (24) Afrikaans as Second Language (3L, 2P)

Only students with Afrikaans as First Additional Language and whose mother language is not Afrikaans are admitted to this module. No mother-tongue speakers of Afrikaans or students who passed Afrikaans as a Home Language may take this module. An integrated approach is followed in the module to study the four communication skills – reading, listening, talking and writing.

Students encounter various methods of language study:

- Advanced interaction around thematically related texts (general and literary)
- Strategic reading and listening skills in academic lecture situations
- Relevant grammar study
- Visual media and film study
- Oral communication

Notes

1. Recommendations on the placing of students in Afrikaans Language Acquisition 188 or in Afrikaans and Dutch 178 are based on departmental language-proficiency tests which are written at the beginning of the year.
2. Students of Speech-Language and Hearing Therapy I in the Faculty of Medicine and Health Sciences are placed in either Xhosa 178 or Afrikaans Language Acquisition 178 or 188 according to a language proficiency test.
3. This module does not lead to Afrikaans and Dutch 278.
4. See the departmental information document for further details.

Home department: Afrikaans and Dutch

13258 Agriculture-nutrition Linkages

814 (10) Agriculture-nutrition Linkages

This theme focuses on the challenges of reducing food insecurity in South Africa, arguing that these are different today from what they were in the past, as they are across Africa, requiring innovative responses and solutions that fundamentally reconsider the underpinnings of food insecurity and how to respond.

Home department: Human Nutrition

13063 Ambulatory Care and Travel Medicine**871 (15) Ambulatory Care and Travel Medicine**

This semester module is an elective for the MPhil (Emergency Medicine) programme with the objective to teach the scope and practice of primary health care, including consultation skills, the bio-psychosocial model and an approach to common presentations in primary care. The module consists of two full contact sessions and assignments.

The final summative assessment contributes 40% of the final mark and course work (assignments) 60%.

Home department: Emergency Medicine

10448 Anaesthesiology**511 (20) Anaesthesiology (3 weeks)**

- i) The module provides introductory principles regarding anaesthesia, resuscitation and intensive care.
- ii) It deals with the following lecture subjects: Equipment: Anaesthetic machine and carbon dioxide absorption; Monitoring during anaesthesia; Pharmacology: Autonomic nervous system; Induction agents; Inhalational agents; Muscle relaxants; Inhalational agents: kinetics; Drug interactions; Premedication; Airway: Anatomy, assessment, intubation; Intubation (continued) – failed intubation; Anaesthetic circuits; Blood and fluids; Administration of general anaesthesia; Postoperative nausea and vomiting; Cardiovascular: Physiology, including monitoring of CVP; Ischaemic heart disease; Hypertension and heart failure; Valve lesions, arrhythmias, pace makers; Influence of anaesthesia on the respiratory system; Obstructive and restrictive disease; Opiates; Pain: Physiology and pathophysiology; Asthma, infection and trauma; Ear, nose and throat/ophthalmology; Central nervous system; Kidneys; Liver; Treating pain, including postoperative pain; Endocrine pathology: Diabetes mellitus; Adrenal cortex: Hypo- and hyperfunction; Malignant hyperthermia; Obesity and Geriatrics; Porphyria and atypical response to suxamethonium; Paediatric anaesthesia; Obstetrics: General; Aspiration; Local anaesthesia: pharmacology, including toxic doses and side effects; Spinal and epidural anaesthesia; Further kinds of regional blockade; Conscious sedation, laparoscopic surgery; Resuscitation: General resuscitation, including anaphylaxis; Cardiopulmonary resuscitation; Acute poisoning: Diagnosis and management; Acute poisoning: Snakes, scorpions, spiders, sea animals; Acute poisoning: Intensive Care – CO salicylates, TAD, organophosphates, paracetamol and plants; Blood gases and ventilation; Near drowning; Septic shock, systemic inflammation.
- iii) It includes a workshop (small groups) about the principles of cardiopulmonary resuscitation.

Home department: Anaesthesiology and Critical Care

10391 Anatomical Pathology**221 (3) Anatomical Pathology (2L)**

General introduction to Anatomical Pathology; principles of the processes of disease, injury and healing.

Home department: Physiotherapy

872 (34) Anatomical Pathology

The Anatomical Pathology module encompasses the principles of histology and cytology, cellular injury, inflammation, repair and healing, haemodynamic disorders, neoplasia, genetics and paediatrics, environmental germs, respiratory system pathology, haematology and lymphoid pathology.

Home department: Anatomical Pathology

10421 Anatomical Pathology**775 (30) Anatomical Pathology**

General Anatomical Pathology; basic principles of cytopathology; relevant systemic pathology (organ based and relevant to the scope of the research project); techniques and diagnostic modalities used in Anatomical Pathology

Home department: Anatomical Pathology

10413 Anatomical Pathology Part I**874 (120) Anatomical Pathology Part I**

The Anatomical Pathology Part I module encompasses the principles of histology and cytology, autopsy techniques and principles of Forensic Medicine, cellular injury, inflammation and repair, hemodynamic disorders, thromboembolic disease, shock, diseases of the immune system, neoplasia, genetic disorders, diseases of infancy and childhood, infectious diseases, environmental and nutritional diseases, and systemic organ pathology.

Home department: Anatomical Pathology

10948 Anatomical Pathology Part II**872 (240) Anatomical Pathology Part II**

Comprehensive and specialised knowledge and mastery of advanced theory and its application in Anatomical Pathology, including Surgical Pathology, Cytopathology, Good Laboratory Practice and Medical Ethics, Laboratory Management, Molecular Pathology, Neuropathology, and Autopsies.

Home department: Anatomical Pathology

14006 Anatomical Techniques and Laboratory Practice**771 (10) Anatomical Techniques and Laboratory Practice**

Research-based study on the history of the preservation and embalming of human tissue, and the application of the knowledge thereof. Laboratory safety.

Home department: Clinical Anatomy

12558 Anatomy**178 (20) Anatomy (4L, 2P)**

Principles of general anatomy and development of the human body, including a basic introduction to embryology and histology, the osteology, musculature system, circulatory system, gastro-intestinal system, respiratory system, urogenital system, endocrine system and the nervous system. Included is an integration of theoretical and practical knowledge.

Home department: Clinical Anatomy

22810 Anatomy**873 (33) Anatomy**

The focus of the Anatomy module is the head, neck and thorax. In-depth knowledge is required of the anatomy and embryology of the ear, nose and throat.

Home department: Clinical Anatomy

874 (40) Anatomy

The focus will be on the anatomy of the head and neck area. An in-depth knowledge of the anatomy and embryology of the orbit, eye and adnexae will be required.

Home department: Ophthalmology

52183 Anatomy (AHS)**278 (36) Anatomy (AHS) (3,5L)**

Anatomy and neuroanatomy of the head and neck; thorax, abdomen, pelvis, perineum and extremities; respiratory system, urinary system, skin, endocrine system, nervous system, epithelium.

Students make use of pre-dissected cadavers; they do not perform any dissection themselves.

Home department: Clinical Anatomy

14208 Anatomy (Radiological Therapy)**872 (40) Anatomy (Radiological Therapy)**

Gross anatomy/surface anatomy/lymphatic drainage/vascular drainage/relations of all anatomical structures. Basic understanding of oncological surgical techniques. Basic understanding of embryological origins of anatomical structures.

Home department: Radiation Oncology

46264 Applied Anatomy**117 (12) Applied Anatomy (3L, 1P)**

General gross anatomy, tissues, the skeleton, head and neck, thorax and muscles of respiration, abdomen and supplementary muscles of respiration. Histology.

Home department: Clinical Anatomy

13045 Applied Basic Sciences**871 (100) Applied Basic Sciences**

Broad overview of human biology at the genetic, molecular and cellular level. Normal anatomy and physiology of all organ systems of the human body including the immune system. Physiological changes of newborn, child and adolescent. Pathophysiological changes due to disease. Principles of laboratory diagnostic methods and imaging techniques. Principles of pharmacotherapeutics. Principles of medical ethics. Principles of epidemiology and research methods, including statistical analysis.

Home department: Paediatrics and Child Health

61433 Applied Exercise Physiology**714 (12) Applied Exercise Physiology**

Applied exercise physiology.

Home department: Sport Science

11830 Applied Food Science**254 (14) Applied Food Science (4L, 4P)**

Sensory evaluation; food experiments; development and evaluation of therapeutic recipes; principles of planning therapeutic menus; food preservation methods and the effect thereof on the quality and nutrient content of foods; packaging of food; food labelling; nanotechnology; aspects of genetically modified and organic foods.

Home department: Human Nutrition

54429 Applied Kinesiology**313 (12) Coaching Strategies (2L, 2P)**

Analysis of performance for strategic development; team cooperation; social behaviour in physical context; coaching tips and incentives; scientific principles of a training year; taking on the role of coach in the school or community; data collection and processing.

PP Kinesiology 182 or

PP Sport Science 184

Home department: Sport Science

314 (12) Scientific Base of the Fitness Industry (2L, 2P)

BA and BSc

The scientific base of the health, exercise and fitness industry; national and international trends in the fitness industry; structure of the fitness industry in SA; presentation and analysis of exercise regimes; exercise programme planning; compilation and management of exercise programmes; medical considerations for the fitness industry; assessment strategies in exercise and fitness; presentation and conducting various health and fitness tests.

Home department: Sport Science

324 (12) Principles of Adapted Movement (2L, 2P)

Value of participation of disabled persons; assessing the performance of persons with disabilities; problem as of participants with chronic illnesses; teaching adaptations regarding disabled persons; data collection and processing.

Home department: Sport Science

344 (12) Sport and Recreation for Persons with Disabilities (2L, 2P)

Sport classification for participation; competition opportunities for persons with disabilities; adaptation of rules and special requirements regarding sports types for persons with disabilities; support of sport development and recreations programmes in special schools and communities; conclusions of research for professional applications.

Home department: Sport Science

352 (12) Exercise and Fitness Training (2L, 2P)

BA and BSc

Presentation of selected professional fields in the fitness industry; planning, presentation and managing of fitness education for special population groups; analysis of exercise areas and exercise modalities; handling a case study personally; presentation of final case study; marketing; business management; risk management; legal considerations in the fitness industry.

Home department: Sport Science

353 (12) Scientific Base of Sport Coaching (2L, 2P)

Apply the principles that influence fitness and skills development to the design of sport specific programmes; understand the role and responsibilities of the coach; incorporate scientific principles in the organisation of a training year.

PP Kinesiology 182 or

PP Sport Science 184

Home department: Sport Science

13653 Applied Microbiology**141 (10) Applied Microbiology (1L, 1P)**

This module introduces basic microbiology concepts, pathogens and infection responses. The approach encompasses integration of theory in clinical situations with a focus on preventing nosocomial infections, implementing infection control policies and preventing associated risks to health care providers during the rendering of care.

Home department: Medical Microbiology

52159 Applied Physiotherapy**373 (66) Applied Physiotherapy (2L, 2P)**

Choice, relevance and adaptation of physiotherapeutic principles to basic and more complex patient images, including neurological, orthopaedic, pulmonological and dermatological problems in babies, children, adolescents, adults and the aged; clinical processes of decision making. Multi- and interdisciplinary teamwork and references. Basic synopsis of the effect of pharmacological substances.

Home department: Physiotherapy

473 (19) Applied Physiotherapy (3L, 6P)

Choice, application and adjustment of physiotherapy principles regarding selected complicated cases. Integration of all aspects of patient handling.

Home department: Physiotherapy

13618 Applied Research Methodology**842 (40) Applied Research Methodology**

Research methodology as applied to real-life problems in the field of disability and/or rehabilitation. The module includes systematically developed assignments that comprise all the parts of a research proposal, i.e. research question, aims, objective, literature review, methodology, ethical considerations, etc. The assignments culminate in a complete proposal package ready for submission to the Health Research Ethics Committee for approval.

Home department: Centre for Rehabilitation Studies

13265 Assessing Food Security**821 (10) Assessing Food Security**

The module covers different levels and methods of food and nutrition assessment, as well as indicators, analysis, monitoring and evaluation.

Home department: Human Nutrition

13067 Assignment (Emergency Medicine)**871 (60) Assignment (Emergency Medicine)**

This is a core module for the MPhil (Emergency Medicine) programme with the objective to independently design a research project, obtain ethical approval, obtain funding, carry out the project and present the results and conclusions in a scientific format. This is the assignment component for the master's degree and the minimum duration is one year.

The research and presentation of the master's assignment for assessment by internal and external examiners contribute 100% of the final mark.

Home department: Emergency Medicine

10959 Basic Applied Sciences**874 (120) Basic Applied Sciences**

Must be completed within the first eighteen months of enrolment. Includes Applied Anatomy, Physiology, Pharmacology and Basic Clinical Pathology.

Home department: Emergency Medicine

10956 Basic Hyperbaric Medicine**772 (25) Basic Hyperbaric Medicine**

On completion of the module, the medical practitioner shall be able to decide, on the assessment of any patient, whether sufficient evidence exists for referral of the patient to a hyperbaric unit for hyperbaric oxygen therapy.

Home department: Health Systems and Public Health

10957 Basic Medical Sciences**811 (96) Basic Medical Sciences**

This includes all the basic sciences relevant to the practice of Internal Medicine, e.g. physiology, pathology, pharmacology and principles of ethics. Successful completion of this module requires satisfactory attendance, as well as a 50% test mark in the FCP (SA) Part I examination. The student must pass Part I of the examination within two years, and preferably within one and a half years, of registration.

Home department: Internal Medicine

13548 Basic Nutritional Principles of Gastrointestinal Disorders**811 (15) Basic Nutritional Principles of Gastrointestinal Disorders**

The role of diet in the aetiology and treatment of various gastrointestinal disorders and associated complications.

Home department: Human Nutrition

10961 Basic Sciences**871 (90) Basic Sciences**

Surgical Anatomy and Physiology, and General Pathology

Must be completed within eighteen months of first registration.

Home department: Surgery

874 (120) Basic Sciences

This module includes subjects forming the foundation of Obstetrics and Gynaecology, such as Anatomy, Physiology and Endocrinology.

Home department: Obstetrics and Gynaecology

10958 Basic Underwater Medicine**772 (30) Basic Underwater Medicine**

After successful completion of this module, the medical practitioner will be able to examine a diver and determine his ability to work as a diver. The person will also be able to register with the Department of Labour as a Designated Medical Practitioner in terms of the diving regulations.

Home department: Health Systems and Public Health

14004 Being and Becoming in Health Care**111 (60) Being and Becoming in Health Care (20 weeks)**

This module will facilitate the transition into Higher Education.

It will broaden the understanding of self, others, the community and the health system in the South African context. It will lay the foundation for the further development of the health care professional the student strives to be.

Home department: Medicine and Health Sciences Central

14204 Becoming a Health Professional**111 (20) Becoming a Health Professional (4L, 4T)**

The aim of this module is to facilitate your transition into Higher Education. It will broaden your understanding of yourself, others, the community and the systems that influence health and health care in the South African context. It will lay the foundation for developing your professional identity and understanding the importance of collaboration with all stakeholders necessary for inclusive and healthy communities. The module has four main themes (Personal and Professional Development; Academic Literacy; Multisectoral Action for Health; Ethics and Professional Conduct) delivered in a shared arrangement among the Department of Health Systems, and the Centres for Health Professions Education, Medical Ethics and Law, Rehabilitation Studies and Evidence-based Health Care. The Departments of Health and Rehabilitation Science, Nursing and Human Nutrition also contribute to this module.

Home department: Medicine and Health Sciences Central

60976 Biokinetics Practice**772 (20) Biokinetics Practice**

Biokinetics practice.

Home department: Sport Science

56340 Biomechanics**712 (12) Biomechanics**

Biomechanics.

Home department: Sport Science

873 (8) Biomechanics

Detailed knowledge and application of functional anatomy and biomechanics of joints, and myofascial and peripheral neural systems of the human body; normal and abnormal movement patterns.

Home department: Physiotherapy

39985 Biostatistics and Epidemiology**322 (9) Biostatistics and Epidemiology (2L)**

Introduction to biostatistics, question generation and data types, sampling, data management, exploratory data analysis, estimation, inference and regression methods with special reference to applications in dietetics. Practical instruction in the use of Excel.

Home department: Biostatistics Unit, Centre for Evidence Based Health

13272 Cancer Epidemiology**873 (12) Cancer Epidemiology (2L)**

This module covers key concepts of cancer epidemiology and how to frame research questions; the International Classification of Disease for Oncology; various study designs; data analysis methods and interpretation issues taking into account issues of confounding; and the role of cancer surveillance for research and monitoring of disease trends.

Home department: Health Systems and Public Health

52310 Cardiovascular System**271 (30) Cardiovascular System (7 weeks)**

Cardiovascular characteristics of the thoracic wall and cavity; the circulatory system: organisation and haemodynamics; the cardiac pump: structure and function; the arterial system: organisation and structure; the venous system: organisation and structure; micro-circulation and the lymphatic system; basis of electrophysiology; control mechanisms in the cardiovascular system. Evaluation; diseases of rhythm and conduction; cardiovascular system risk factors: general; dyslipidaemia; hypertension; ischaemic heart disease; vascular disease; cardiac valve diseases; infectious and inflammatory diseases of the heart; heart failure and myocardial disease; congenital heart disease; cardiovascular system in systemic diseases; trauma, pregnancy, anaesthetics; evaluation; diseases of rhythm and electrical conduction; cardiovascular system risk factors: general; lipidaemia; hypertension; ischaemic heart disease; vascular disease; valvular diseases; infective and inflammatory diseases of the heart; cardiac failure and myocardial disease; congenital heart disease; the cardiovascular system in systemic diseases, trauma and pregnancy and anaesthesia.

Home department: Medicine and Health Sciences Central

11657 Chemical Pathology**775 (30) Chemical Pathology**

General Chemical Pathology; techniques and diagnostic modalities used in Chemical Pathology; principles of blood analysis; relevant techniques, including spectrophotometry, chromatography, atomic absorption, electrophoresis, flow cytometry, DNA extraction and polymerase chain reaction.

Home department: Chemical Pathology

872 (70) Chemical Pathology

- Renal function, electrolytes, blood gases, liver functions, lipids and cardiac markers
- Enzymes, proteins, tumour markers, gastrointestinal system and fluids
- Endocrinology and trace elements

Sections are assessed by written papers, practical and oral assessments, if needed, at the completion of each module and a portfolio of evidence submitted as part of flexible assessment and a prerequisite for graduation. Details of flexible assessment are provided in the study guide. The final examination takes place after the successful completion of all the sections, and consists of a written paper, OSCE and oral examination. External examiners are involved according to the University guidelines.

Home department: Chemical Pathology

65692 Chemistry for Health Sciences**112 (8) Chemistry for Health Sciences (5L, 3P)**

The module covers areas of general chemistry required as a foundation for studying further in the health sciences streams of dietetics and physiotherapy. It comprises atomic structure and bonding; stoichiometry; properties of solutions; chemical kinetics and equilibria; organic chemistry and biomolecules.

Home department: Chemistry and Polymer Science

13029 Clinical and Surgical Anatomy**771 (10) Clinical and Surgical Anatomy**

A cadaver-based study of selected aspects of the human body, and the functional and clinical importance of the selected structures and/or regions in the body.

Home department: Clinical Anatomy

XXXXX Clinical Critical Care**XXX (135) Clinical Critical Care**

In this module, students are exposed to the consolidated critical care unit, and its management of critically ill patients admitted to the general intensive care unit. These patients generally have severe organ dysfunction and require focused care. Students enrolled in this module will be exposed to and trained in the theoretical and practical aspects of adult critical care medicine.

Home department: Anaesthesiology and Critical Care

11520 Clinical Emergency Care I**871 (15) Clinical Emergency Care I**

This semester module is a core module for the MPhil (Emergency Medicine) programme with the following objectives: to develop a rational evidence-based approach to clinical problems in emergency care and to develop further knowledge and skills for managing complex emergencies. The module entails clinical-problem-oriented tutorials, reviews of medical literature and protocol development, as well as skills training in the simulation laboratory and small groups.

Assessments of assignments and skills sessions contribute 60% of the final mark, and the final written and oral assessments 40%.

Home department: Emergency Medicine

11521 Clinical Emergency Care II**871 (15) Clinical Emergency Care II**

This semester module is a core module for the MPhil (Emergency Medicine) programme with the following objectives: to develop a rational evidence-based approach to clinical problems in emergency care and to develop further knowledge and skills for managing complex emergencies. The module entails clinical-problem-oriented tutorials, reviews of medical literature and protocol development, as well as skills training in the simulation laboratory and small groups.

Assessments of assignments and skills sessions contribute 60% of the final mark, and the final written and oral assessments 40%.

Home department: Emergency Medicine

11027 Clinical Emergency Medicine**875 (240) Clinical Emergency Medicine**

Is offered as a one-year course over each of the four enrolled years of the degree. Includes the theoretical and practical aspects of Emergency Medicine.

Home department: Emergency Medicine

11025 Clinical Internal Medicine**811 (264) Clinical Internal Medicine**

Successful completion of this module requires satisfactory participation whilst rotating as a registrar in General Internal Medicine and the subspecialties, as well as achieving a mark of at least 50% in the FCP (SA) Part II examination. The student is assessed regularly as part of the flexible assessment strategy, and is required to keep a log-book as a record of his clinical exposure and experience with procedures.

Home department: Internal Medicine

13095 Clinical Ophthalmology**875 (200) Clinical Ophthalmology**

An extensive and in-depth knowledge of medical and surgical ophthalmology will need to be demonstrated. A sound knowledge of applied microbiology and clinical pathology will be required.

Home department: Ophthalmology

12178 Clinical Pharmacology**471 (15) Clinical Pharmacology (3 weeks)**

Pharmacological concepts (pharmacokinetics, pharmacodynamics and therapeutic drug monitoring); drug safety; prescription writing and scheduling; treatment of special patient populations, cardiovascular disorders, and asthma and COPD; antimicrobial therapy; toxicology; treatment of gout, arthritis and pain, and endocrine disorders; evidence-based health care; treatment of psychiatric and neurological disorders.

Home department: Medicine and Health Sciences Central

52191 Clinical Physiotherapy**121 (8) Clinical Physiotherapy (3L, 5P)**

This module introduces the student to the healthcare system and its clients as well as the physiotherapist in the clinical settings. This module also provides the opportunity to learn basic Xhosa/Afrikaans that will assist the student during patient consultations.

Home department: Physiotherapy

254 (5) Clinical Physiotherapy (3P)

Clinical exposure to apply the principles of physiotherapy practice as preparation for clinical practice in the third year. Structured patient interviews, individual observation and assistance during patient treatment by physiotherapists and senior students, patient demonstrations in selected areas of physiotherapy; principles of rehabilitation; multi- and interdisciplinary teamwork and references.

Home department: Physiotherapy

374 (40) Clinical Physiotherapy (14P)

Practical clinical experience of running a physiotherapy practice. Handling general, simple problems, as well as selected areas of advanced patient care. Individual handling and group handling of patients and caregivers during three clinical placements (under supervision).

Home department: Physiotherapy

474 (96) Clinical Physiotherapy (28P)

Practical clinical experience of physiotherapy practice in all areas and at all levels of patient care. Candidates, while subject to less supervision, will be required to take greater initiative (this further equips them for their role as independently functioning therapists). Five clinical placements, emergency duties over weekends and an elective placement are requirements for this module.

Home department: Physiotherapy

11518 Clinical Research Methods I**871 (15) Clinical Research Methods I**

This semester module is a core module for the MPhil (Emergency Medicine) programme with the objective to teach clinical research methods, biostatistics and clinical-epidemiology principles relevant to emergency medicine.

Assessments of assignments contribute 50% of the final mark, and the final written assessment contributes 50%.

Home department: Emergency Medicine

11519 Clinical Research Methods II**871 (15) Clinical Research Methods II**

This semester module is a core module for the MPhil (Emergency Medicine) programme with the objective to teach clinical research methods, biostatistics and clinical-epidemiology principles relevant to emergency medicine.

Assessments of assignments contribute 50% of the final mark, and the final written assessment contributes 50%.

Home department: Emergency Medicine

50946 Clinical Speech Pathology**184 (12) Clinical Speech Pathology (4L)**

Introduction and exposure to normal development, communication skills, basic generic clinical skills, aspects of assessment of communication development and professional conduct in the field of speech-language and hearing therapy. The above-mentioned occur during observation in preschool environments.

Home department: Speech-Language and Hearing Therapy

274 (26) Clinical Speech Pathology (4L)

Speech and language screening; phonological awareness; language programmes in preschool settings; intervention for children with language, phonological awareness, articulation and phonology disorders; hearing health. IsiXhosa or Afrikaans communication competence in the clinical context

Home department: Speech-Language and Hearing Therapy

374 (48) Clinical Speech Pathology (13P, 2T)

Intervention for persons with communication disorders; observation of intervention in a variety of settings. IsiXhosa or Afrikaans communication competence in the clinical context. Clinical skills development activities focusing on contemporary methods of service delivery, and teaching and learning methods.

Home department: Speech-Language and Hearing Therapy

474 (64) Clinical Speech Pathology (20P, 2T)

Speech-language therapy and intervention for a variety of developmental and acquired communication disorders in children and adults; intervention for the child or adult with feeding difficulties or dysphagia; outreach services to communities in primary health care clinics or centres; multilingualism and second-language learning problems; introduction to sign language; the deaf community and culture; attitudes; resources in the community; history of sign language in South Africa; sign language; finger spelling; use of interpreters in different contexts. Clinical rotations at hospitals, schools, rehabilitation centres and in the community. IsiXhosa or Afrikaans communication competence in the clinical context. Clinical skills development activities focusing on contemporary methods of service delivery, and teaching and learning methods.

Home department: Speech-Language and Hearing Therapy

11019 Clinical Surgery**871 (180) Clinical Surgery**

Surgical and operative practice.

Home department: Surgery

14368 Community Health**775 (15) Community Health**

Students will study basic epidemiological concepts, outbreak investigation, vaccination fundamentals and infectious risks in vulnerable populations. Transversal themes of infection prevention and control, antibiotic stewardship, reproductive health, infection-related imaging and basic biology and laboratory diagnosis form an integral part of this module.

Home department: Infectious Diseases

34568 Community Health**872 (150) Community Health**

Including Environmental Health, Occupational Health, Management of Health Services and Systematic/Interventional Epidemiology.

Home department: Health Systems and Public Health

13669 Community Health Promotion**441 (12) Community Health Promotion (2L)**

The content and approach of this module assists the student to apply health promotion principles and processes in preventing complications and treating and managing identified common conditions in collaboration with community members.

Home Department: Nursing and Midwifery

13670 Community Health Promotion: Practice**441 (12) Community Health Promotion: Practice (2P)**

This module complements the module Community Health Promotion. The module content engages students in applying their understanding of health promotion principles and processes in preventing complications and treating and managing identified common conditions in collaboration with community members.

Home department: Nursing and Midwifery

13166 Community Integration of the Disabled Person**775 (30) Community Integration of the Disabled Person**

Disability and rehabilitation practices: service delivery, support systems and social integration, advocacy and lobbying, promotion and prevention.

Home department: Centre for Rehabilitation Studies

46973 Community Nutrition**244 (7) Community Nutrition (2L)**

The aims of primary health care (PHC) and the human rights-based approach to health care; the dietitian's role in PHC; definition, extent, causes and consequences of malnutrition. The relationship between nutrition education, lifestyle and health promotion. Principles of communication; intercultural communication; principles of effective instruction; instructional planning; outcomes; content selection.

Home department: Human Nutrition

376 (27) Community Nutrition (2,5L, 2P)

Introduction to the global, national and provincial nutrition and health profiles and stakeholders in nutrition. Introduction to the National and Provincial Department of Health, nutrition and related policies, evidence-based nutrition, specific and nutrition sensitive interventions, nutrition surveillance, factors affecting the availability and acceptability of food (food security); economic, social, cultural, psychological, technological and religious factors affecting food intake; changes in nutritional behaviour; stakeholder engagement, community participation and development; project planning and business plans.

Practicals: Planning of a nutritious menu for a family with a limited household budget; investigation of marketing/availability of food in the community; investigation of the magnitude of change in eating behaviour in three generations to understand the concept of nutritional transition, visits to community health centres and community-based projects that relate to the theory; production and formative evaluation of counselling material, practical principles of nutrition education, methods of instruction,

applicable technology, evaluation, advantages of various media types, selection of media, modification of behaviour and health promotion among individuals and groups, planning of health and nutrition promotion activities.

Home department: Human Nutrition

478 (37) Community Nutrition (10P)

Exposure to and involvement with service rendering in the Integrated Nutrition Programme (INP) of the National and Provincial Department of Health at community-based platforms in an urban environment, as well as Ukwanda, the peri-urban and rural community-based platforms of the Faculty of Medicine and Health Sciences. Involvement in the Health Facility Based Nutrition Programme (HFBNP). Exposure to the implementation of the Nutrition Therapeutic Programme (NTP), Enteral Feeding Programme, Integrated Management of Childhood Illnesses (IMCI), Vitamin A Supplementation Programme and the Mother-Baby-Friendly Initiative (MBFI). Monitoring of the HFBNP at a community day centre (CDC). Provision of nutrition education (consultation) to adults and children visiting the primary health care (PHC) clinics (well baby, malnutrition and TB), as well as to pregnant women and mothers of newborn babies. Diet therapy to patients treated at the CDCs. Health-promotion activities at clubs (e.g. for women, the elderly, and patients with diabetes, hypertension, obesity), clinics, schools and daycare centres. Exposure to and reflection on nutrition intervention programmes. Compilation and interpretation of a community profile. Exposure to the work of a community dietitian and other members of the PHC team (e.g. intra-professional team, school nurses). Development of management skills in community nutrition, exposure to global nutrition and advocacy programmes and human rights and ethics in health care. Exposure to media activities, including newspaper reports and radio talks. Exposure to and involvement in the Health Promoting School Initiative within the school health environment.

Home department: Human Nutrition

13030 Comparative Anatomy

771 (10) Comparative Anatomy

The comparative anatomy of certain organ systems of selected representative vertebrate species including commonly used laboratory and domestic animals.

Home department: Clinical Anatomy

13255 Conceptualising Food Systems

811 (10) Conceptualising Food Systems

Thorough scientific-based knowledge and research techniques in the field of the food and nutrition security are reviewed in this module. This will require experience and an understanding of the situation in which the problem is embedded in the food system.

Home division: Human Nutrition/ Food Science/ Agricultural Economics

13656 Contextual Health and Nursing Care I

271 (24) Contextual Health and Nursing Care I (4L)

The module content supports students in learning to craft holistic, collaborative care in collaboration with people who are affected by disorders of the digestive; integumentary; ear, nose and throat; ophthalmological and musculoskeletal systems.

Home Department: Nursing and Midwifery

13663 Contextual Health and Nursing Care II

371 (24) Contextual Health and Nursing Care II (4L)

The module content builds on that of Contextual Health and Nursing Care I. In this module the focus shifts to developing holistic, collaborative care in collaboration with people affected by disorders of the cardiovascular, respiratory, reproductive, neurological, endocrine, immune and genito-urinary systems.

Home department: Nursing and Midwifery

13671 Contextual Health and Nursing Care III

431 (12) Contextual Health and Nursing Care III (4L)

The module content builds on that of Contextual Health and Nursing Care II. In this module the focus shifts to developing holistic, collaborative care in collaboration with people affected by disorders that require admission to specialised care environments, such as emergency care, critical care and oncological care, as well as the operating room complex.

Home department: Nursing and Midwifery

13657 Contextual Health and Nursing Care: Practice I**271 (24) Contextual Health and Nursing Care: Practice I (4P)**

This module complements the module Contextual Health and Nursing Care I. Principles of nursing and midwifery care are applied within various person and community-related contexts. The module content develops the student's abilities in applying knowledge and skills to craft holistic, collaborative care in collaboration with people affected by disorders of the digestive; integumentary; ear, nose and throat; ophthalmological and musculoskeletal systems.

Home department: Nursing and Midwifery

13664 Contextual Health and Nursing Care: Practice II**371 (24) Contextual Health and Nursing Care: Practice II (4P)**

This module complements the module Contextual Health and Nursing Care II. Principles of nursing care are applied within various person and community-related contexts. The module content develops the student's abilities in applying knowledge and skills to craft holistic, collaborative care in collaboration with people affected by disorders of the cardiovascular, respiratory, reproductive, neurological, endocrine, immune and genito-urinary systems.

Home department: Nursing and Midwifery

13672 Contextual Health and Nursing Care: Practice III**431 (12) Contextual Health and Nursing Care: Practice III (4P)**

This module complements the module Contextual Health and Nursing Care III. Principles of nursing care are applied within various person and community-related contexts. The module content develops the student's abilities in applying knowledge and skills to craft holistic, collaborative care in collaboration with people admitted into specialised care environments, such as those dedicated to emergency care, critical care and oncological care, as well as into the operating room complex.

Home department: Nursing and Midwifery

13061 Continuous Quality Improvement**871 (15) Continuous Quality Improvement**

This semester module is an elective for the MPhil (Emergency Medicine) programme with the objective to teach the principles of continuous quality improvement theory applicable to health care. The module is predominantly web-based, with flexible assessment and a final project.

The assessments of module assignments contribute 50% of the final mark, the final project contributes 20% and the final assessment contributes 30%.

Home department: Emergency Medicine

XXXXX Critical Care Research Project**XXX (45) Critical Care Research Project**

In this module, students are exposed to principles of relevant and ethical research practices. The student will be expected to design a study protocol in the field of adult critical care, to collect and analyse data, to conduct a literature review and to present this research project as for a structured master's programme.

Home department: Anaesthesiology and Critical Care

11526 Critical Thinking in Emergency Care**871 (15) Critical Thinking in Emergency Care**

This semester module is a core module for the MPhil (Emergency Medicine) programme with the objective to help students understand critical thinking in emergency medicine. The module consists of web-based assignments and readings, and a final project.

Web-based assignments contribute 60% of the final mark and the final project contributes 40%.

Home department: Emergency Medicine

64815 Current Topics in Sport and Exercise Science**721 (12) Current Topics in Sport and Exercise Science**

On each topic: recent research, international perspectives, professional application, current status in South Africa.

Home department: Sport Science

751 (12) Current Topics in Sport and Exercise Science

On each topic: recent research, international perspectives, professional application, current status in South Africa.

Home department: Sport Science

XXXXX Curriculum Studies**XXX (20) Curriculum Studies**

This module develops knowledge and understanding of curriculum aspects and related issues in nursing education, taking into consideration relevant legislation, the role of the nurse educator, quality management and leadership in the nursing education context.

Home department: Nursing and Midwifery

13031 Developmental Anatomy**771 (10) Developmental Anatomy**

The mutual relationships between vertebrates, including humans, as illustrated by the embryological development of the Chordates. A study of the systemic anatomical development of the human embryo with reference to environmental and other influences on normal development and/or congenital abnormalities.

Home department: Clinical Anatomy

57681 Digestive System**271 (30) Digestive System (7 weeks)**

Embryology of the digestive system and peritoneal cavity; anterior abdominal wall: structure and surface anatomy; oral cavity, tongue, salivary glands and pharynx: structure and function; oesophagus and gastro-intestinal canal: structure and function; intra-abdominal organs: liver, gall bladder, biliary tract, pancreas and spleen: structure, relationships, function. Pathology and pathophysiology of common diseases of the abdomen and gastro-intestinal system with correlative characteristic symptom complexes. The oral cavity, salivary glands, pharynx and oesophagus; the stomach and duodenum; the small intestines; the colon and the appendix; the liver, biliary system and pancreas; the abdominal wall, diaphragm, and the retroperitoneal and peritoneal cavities. Abdominal emergencies: trauma, the acute abdomen and gastro-intestinal haemorrhage; functional abnormalities of the gastro-intestinal system. The effect of systemic disorders and medico-surgical therapies on the gastro-intestinal system. Paediatric gastroenterology and abdominal surgery.

Home department: Medicine and Health Sciences Central

11528 Disaster Medical Response Training**871 (15) Disaster Medical Response Training**

This semester module is an elective for the MPhil (Emergency Medicine) programme with the following objectives: to train emergency care workers in the principles and skills of pre-hospital medical rescue, and to help students understand the structure and function of a pre-hospital medical response system, as well as the theory of urban search and rescue, and tactical medical rescue. The module entails 12 days of full contact time for theoretical and practical skills at the College of Emergency Care. Candidates have to fulfil the minimum physical requirements to enter the module.

Theoretical assessment at the end of the contact time contributes 40% of the final mark, skills assessment 30% and a written assignment 30%.

Home department: Emergency Medicine

13060 Disaster Medicine**871 (15) Disaster Medicine**

This semester module is an elective for the MPhil (Emergency Medicine) programme with the objective to develop emergency care workers who can competently perform risk assessment, planning and coordination of major incidents. The module is designed to help students understand the principles of response to medical major incidents or disasters, and also covers aspects of mass-gathering medicine. The module entails five full contact days and a practical-simulation day. Assignments are based on case reports of major incidents, and a final research project is to be devised in consultation with the module coordinator.

Assessments of contact time and practical work contribute 40% of the final mark, assessment of module assignments contributes 20% and the final research project contributes 40%.

Home department: Emergency Medicine

11474 Doctor as Change Agent in Communities**511 (25) Doctor as Change Agent in Communities (5 weeks)**

Equipping students as change agents to improve patient outcomes and strengthen health systems by facilitating the development

of key competencies in patient-centred and community-centred care, focusing on the following roles of a health professional: health care practitioner, scholar, professional, communicator, collaborator, leader, manager and health advocate.

Home department: Medicine and Health Sciences Central

11402 Economic Evaluation

875 (12) Economic Evaluation

Principles of economic evaluation; costing; discounting, annualisation; cost-benefit analysis; cost-effectiveness analysis; cost-utility analysis; uncertainty and sensitivity analysis; modelling in economic evaluation.

Home department: Health Systems and Public Health

13062 Education and Training in Emergency Care

871 (15) Education and Training in Emergency Care

This semester module is an elective for the MPhil (Emergency Medicine) programme with the objective to teach the principles and theory of teaching and training in emergency care environments. The module includes sessions on adult learning theory, clinical skills training, and the virtual learning environment (VLE) and electronic learning resources.

Home department: Emergency Medicine

XXXXX Educational Psychology

XXX (15) Educational Psychology

This module develops an understanding of educational psychology and its implications for teaching and learning processes. In particular, attention is paid to themes that are relevant to nursing education: psychological and cognitive development during adolescence, adult learning, aspects of learning combined with information processing and multiple intelligence. In addition, aspects of student support are included.

Home department: Nursing and Midwifery

52353 Endocrine System

271 (15) Endocrine System (3 weeks)

Embryology; the macro- and microscopic structure of: the hypothalamus, hypophysis, thyroid, parathyroid, pancreas and adrenal gland; the secretion of chemical messengers; the functioning of water-soluble chemical messengers; the functioning of fat-soluble chemical messengers; interactions of the body's chemical messenger system. Diabetes mellitus; hypoglycaemia; thyroid disease; bone and bone mineral metabolism; diseases of the pituitary gland and iatrogenic Cushing's disease; the child of short stature and with delayed puberty; diseases of the adrenal gland and hirsutism; miscellaneous disorders of the endocrine system.

Home department: Medicine and Health Sciences Central

61018 Ergonomics

775 (20) Ergonomics

Ergonomics.

Home department: Sport Science

13651 Essentials of Human Anatomy

171 (24) Essentials of Human Anatomy (3L, 3P)

This module establishes a scientific background to, understanding of, and insight into the essentials of human anatomy to enable students to integrate this understanding into clinical nursing practice.

Home department: Clinical Anatomy

13658 Essentials of Human Physiology

271 (24) Essentials of Human Physiology (4L, 1P)

This module establishes a scientific background to, understanding of, and insight into the essentials of human physiology to enable students to integrate this understanding into clinical nursing practice.

Home department: Medical Physiology

64602 Ethics**511 (10) Ethics**

Medical Ethics: The autonomy of the individual; beneficence, non-maleficence and privacy; justice; the medical doctor and the law.

Home department: Medicine and Health Sciences Central

12162 Ethics and Human Rights**214 (3) Ethics and Human Rights (2L)**

Ethical principles and universal ethical theories that apply to the health care environment are explored, as well as the application in practice. Ethical rules and regulations according to the Health Professions Council of South Africa (HPCSA) are discussed, and the appropriate professional conduct of a dietitian.

The various categories of human rights will be explained.

The application of human rights in South Africa is examined in view of the relevant institutions.

The concept of a human rights-based approach to health is explored.

The rationale of the Health Professions Council of South Africa (HPCSA) for education about ethics and human rights.

Relevant study visits will be undertaken.

Home department: Human Nutrition

341 (4) Ethics and Human Rights (2L)

The concept and history of the right to adequate food, and its value for human development, food security and poverty reduction programmes; the relevance of other human rights. State obligations, and the responsibilities of individuals and other role players in society. The process of the implementation of the right to food; resource mechanisms to address violations of the right to food; the relevance of the Right to Food Guidelines as a tool to support the progressive realisation of the right to food. The current situation in South Africa and the role of the Constitution pertaining to the realisation of the right to adequate food in various situations and amongst vulnerable population groups are investigated by means of case studies.

Relevant study visits will be undertaken.

The final mark for Ethics and Human Rights 341 is calculated as follows: class mark 60% and examination mark 40%.

Home department: Human Nutrition

13085 Evidence and Information in Health Management**775 (10) Evidence and Information in Health Management**

The aim of this module is to consider the role and importance of information and information systems in providing effective and efficient health care, and to develop skills for managing implementation and using information systems.

Home department: Health Systems and Public Health

XXXXX Evidence-based Practice**XXX (8) Evidence-based Practice**

This module will enable students to review evidence and evaluate practice standards and guidelines in specialist nursing and midwifery, in order to assimilate the best available evidence in practice and improve knowledge translation.

Home department: Nursing and Midwifery

61204 Exercise Physiology**743 (12) Exercise Physiology**

Exercise physiology.

Home department: Sport Science

774 (20) Exercise Physiology

Exercise physiology.

Home department: Sport Science

61220 Exercise Psychology**713 (12) Exercise Psychology**

Exercise psychology.

Home department: Sport Science

61212 Exercise Science**771 (30) Exercise Science**

Exercise science.

Home department: Sport Science

13086 Financial Leadership and Governance for Effective Health Care Delivery**775 (10) Financial Leadership and Governance for Effective Health Care Delivery**

Students learn about their role in the financial management cycle, from financial planning and budgeting to financial management functions in executing the budget (supply chain management, revenue management and expenditure management), accounting, the audit process and accountability.

Home department: Health Systems and Public Health

13267 Food and Nutrition Policies**823 (10) Food and Nutrition Policies**

This theme focuses on providing insight into the contemporary focus areas in food and nutrition policies in South Africa. It makes students familiar with the principles and the diversity of the South African food and nutrition policies.

Home department: Human Nutrition

13264 Food Chains and Consumers**844 (10) Food Chains and Consumers**

This theme focuses on providing insight into the agri-food business system, related governance systems and strategies, and the role of value chains and how the food chain performance can be improved. Economics, management and marketing terminology and principles will be considered. This module also focuses on the factors impacting on the human behaviour and the decision-making process regarding food choice.

Home department: Human Nutrition/Agricultural Economics

13500 Food, Nutrition and Livelihood in Humanitarian Emergencies**812 (15) Food, Nutrition and Livelihood in Humanitarian Emergencies**

This module will focus on providing insight into the role of good governance in emergency situations to reduce impact of disasters on livelihoods and vulnerable people and to ensure that disaster responses include well-coordinated plans that reduce and manage risks specific to agriculture, food, nutrition and health.

Home department: Human Nutrition

13259 Food Processing and Preservation**815 (10) Food Processing and Preservation**

This theme focuses on providing insight into the most important unit operations applied in the food industry and the impact of these unit operations on the quality of food products, the most important novel food processing technologies applied in food industry and on postharvest handling, energy efficiency water use and water treatment.

Home department: Food Science

11829 Food Production and Systems**214 (20) Food Production and Systems (3,5L, 3P)**

Role of the dietitian in the food industry. Planning and evaluation of the layout and design of food service units; procurement and maintenance of equipment; ergonomics and safety in the workplace; introduction to various food preparation and serving systems; ration scales and recipe standardisation. Implementation of food standards and relevant legislation; the process of food procurement (including specifications and tenders), food preparation and serving; stock control, waste management and quality control. Sanitation, hygiene and food safety (including HACCP); client satisfaction; ethics in the food service. Two days of practical observation in a food-service unit.

Home department: Human Nutrition

36072 Foods**144 (20) Foods (6L, 3P)**

Fundamental principles, mediums and equipment used for different cooking methods to compile a normal menu. Cooking methods to promote and preserve the sensory and nutritional quality of foods. Basic principles of menu planning to compile a

normal menu. Classification, nutrient composition, chemical structure and specific physical and chemical characteristics of different food sources, i.e. fats, protein (red meat, poultry, fish, legumes, soy, gelatine, eggs, milk, cheese) and carbohydrates (starches, grains, fruits, vegetables). Handling, preparation, cooking and storage of different food sources and its impact on nutrient composition, chemical structure, food safety and quality. Practical exercises to apply theoretical knowledge of food sources.

Home department: Human Nutrition

13256 Food Safety, Hazards and Risks

812 (10) Food Safety, Hazards and Risks

This theme focuses on providing insight into microbiological, chemical and physical aspects of food safety, the lines of defence and responsibilities in prevention, and the quality assurance systems and legislation in place to reduce risks in relation to food.

Home department: Food Science

13496 Food Security

812 (15) Food Security

The module will cover food security concepts; analysis of the situation in Sub-Saharan Africa; and strategies applicable in addressing food insecurity.

Home department: Human Nutrition

13266 Food Security Project Analysis

822 (10) Food Security Project Analysis

This theme focuses on providing insight into the planning and implementation of nutrition-focused interventions and the monitoring and evaluation of the performance, relevance and effects of these interventions.

Home division: Agricultural Economics

52086 Food Service Management

476 (37) Food Service Management (10P)

Practical exposure to different food-service systems. Planning of normal and therapeutic choice menus and execution of recipe development. Critical observation of and active participation in all aspects pertaining to effective food-service management, including planning, implementation, stock and quality control, client satisfaction, and human resources, people and financial management. Sanitation, hygiene and food safety, and implementation of HACCP. Exposure to the management of outsourced food-service units. Application of relevant legislation and ethical principles. Service-learning component: providing a service to community partners (such as Tygerberg Academic Hospital, Department of Health, Centres for Early Childhood Development and private hospitals) according to their needs. Exposure to and involvement with the food-service component of service rendering at community-based platforms in Ukwanda.

Home department: Human Nutrition

57819 Forensic Medicine

471 (10) Forensic Medicine (2 weeks)

General medico-legal principles including natural vs. unnatural death; completion of the death certificate form; the pathology of wounds including basic wound patterns as well as more complex mechanisms of injury (burns, gunshot wounds, electrical injuries, head injuries, etc.); the pathology of complications of wounds; influences of chemical substances, including alcohol, on the body; approach to sudden deaths including sudden infant death syndrome in babies (cot deaths); early and late post-mortal changes; introduction to basic legal aspects in the South African law system; appropriate acts and regulations regarding the following principles in the medical field: inquests, tissue retention, abortion, anaesthetic-related deaths, and ethical and moral codes stipulated by statutes.

Home department: Forensic Medicine

11100 Forensic Pathology

872 (80) Forensic Pathology I

Advanced basic knowledge and the mastering of practical and theoretical components in Anatomical Pathology.

Home department: Anatomical Pathology

14005 Form and Function**141 (60) Form and Function (20 weeks)**

This module encompasses the teaching of the normal structure and function of humans, communities and health systems.

Home department: Medicine and Health Sciences Central

13648 Foundations of Nursing and Midwifery Sciences**171 (20) Foundations of Nursing and Midwifery Sciences (3L)**

This module focuses on the foundations supporting the health and well-being of people, families and communities. The theory and praxis of person-centred, holistic and contextual care, as well as the roles, responsibilities and scope of practice of a nurse and midwife in various fields and contexts are introduced.

Home department: Nursing and Midwifery

13649 Foundations of Nursing and Midwifery Sciences: Practice**171 (20) Foundations of Nursing and Midwifery Sciences: Practice (3P)**

This module complements Foundations of Nursing and Midwifery Sciences. The understanding gained in the complementary module is applied through engaging with communities and community members. Clinical learning includes physical assessment skills, record keeping, prevention of infection, safety management, and interacting with vulnerable groups.

Home department: Nursing and Midwifery

13263 Functional Foods and GMOs**843 (10) Functional Foods and GMOs**

This theme focuses on providing insight into health-promoting foods, the use of genetically modified crops and their relevance to food and nutrition security, as well as the concept of nutritional genomics and their impact on preventing nutrition disorders.

Home division: Food Science

13425 Fundamentals of Physiology**178 (24) Fundamentals of Physiology (3L)**

This module is an introduction to the fundamentals of physiology, from cellular structure and function to the interaction between organs and organ systems in maintaining homeostasis, the bringing about of normal function and the facilitating of the interaction between people and their environment. Aspects addressed include cellular function, energy metabolism, homeostasis, structure and function of the central and peripheral nervous system, and the endocrine, musculoskeletal, cardiovascular, respiratory and urogenital systems.

Home department: Medical Physiology.

10294 General Linguistics**178 (24) Introduction to Linguistics (3L, 1T)**

Nature and objectives; functions of language; construction of (a) language out of a sound system, a meaning system, and systems for forming words and sentences; principles of language use; language diversity and variation; interaction between linguistic and social phenomena; language change; language acquisition; language in the brain; language production and perception.

Home department: General Linguistics

278 (24) Language and the Human Mind (3L)

Principles and practice of the analysis of language structure (syntax and phonology, other aspects of language structure); principles and practice of the analysis of language use (pragmatics/discourse analysis); sociolinguistic aspects of language; core questions about language acquisition and language processing; *capita selecta* which contribute to the realisation of the outcomes of the module.

A system of flexible assessment is used in General Linguistics 278.

Prerequisite pass module: General Linguistics 178

Home department: General Linguistics

Formula for final mark: Students are informed in writing at the beginning of the year about the way in which the final mark is calculated and they receive regular reports on their progress through the year.

13248 General Microscopic Anatomy and Histology**775 (60) General Microscopic Anatomy and Histology**

The module develops knowledge and understanding of the anatomy and histology of the human body. Histological preparation processes, histological analysing techniques, research principles, laboratory safety and aspects of epidemiology are examined to establish an understanding in the context of anatomical and histological research.

Home department: Clinical Anatomy

10942 General Neurology**876 (130) General Neurology**

Diagnosis and handling of relevant neurological conditions.

Home department: Internal Medicine

13678 Global Health Care Sciences**441 (10) Global Health Care Sciences (2L)**

Global Health Care Sciences considers the effects, impact and implications of co-morbidity, non-communicable and infectious disease and mass disasters locally and globally. The role and value of the nurse and midwife in understanding, preventing and managing these complex global influences are emphasised.

Home department: Nursing and Midwifery

13679 Global Health Care Sciences: Practice**441 (10) Global Health Care Sciences: Practice (2P)**

Global Health Care Sciences: Practice is the study of co-morbidities, non-communicable and infectious disease and mass disasters locally and globally.

Home department: Nursing and Midwifery

13091 Gross Regional Anatomy**771 (20) Gross Regional Anatomy**

A cadaver-based study of the systems of the body.

Home department: Clinical Anatomy

11001 Gynaecology**873 (120) Gynaecology**

This module includes general gynaecology, community gynaecology, assisted reproduction, reproductive endocrinology, gynaecological oncology, urogynaecology, pathology (incorporating histo- and cytopathology related to the field), contraception and family planning.

Home department: Obstetrics and Gynaecology

47090 Haematology**873 (70) Haematology**

- Haemopoiesis and lymphopoiesis, haemolysis, haemostasis, routine laboratory tests covered in Integrated Pathology; haemolytic anaemias; anaemias of haematinic deficiencies: pathophysiology and diagnosis.
- Leukaemias and lymphomas; myeloproliferative diseases; bone marrow failure syndromes: diagnosis and classification of these disorders will be supported by microscopic and related diagnostic tests.
- Haemostatic and thrombotic disorders: diagnosis and management of bleeding disorders and hypercoagulability, anticoagulation monitoring, laboratory aspects of blood transfusion and immunohaematology.

Assessment:

Flexible assessment through laboratory reports, clinical case presentations, prepared academic seminars and journal club discussions, as well as a log-book. A portfolio of evidence shall be submitted as part of the flexible assessment and is a prerequisite for graduation. Details of flexible assessment are provided in the study guide. Formal assessment is done in the form of one written paper consisting of long and shorter questions on the current state of knowledge in Haematological Pathology. Practical examinations: an interpretative practical on blood transfusion, and haemostatic and haemolytic conditions, and a morphological examination consisting of the microscopic diagnosis of blood and bone marrow pathology. An oral examination. External examiners are involved according to University guidelines.

Home department: Haematological Pathology

64793 Haematology**775 (30) Haematology**

Laboratory techniques and instrumentation in Haematology; morphology and physiology of normal blood and bone marrow cells; normal values of blood-cell counts and coagulation tests; anaemias; cytopenias and cytoses; immunological aspects of Haematology and blood groups; haemostasis and thrombosis; haematological malignancies.

Home department: Anatomical Pathology

52426 Haematological System**371 (20) Haematological System (3 weeks)**

Haematological themes: blood components; haemopoiesis; blood groups; blood clotting mechanisms. Immunological themes: defence mechanisms of the body; the non-specific immune system; the specific immune system. Anaemia; bleeding disorders; cytopaenia and cytosis; haematological malignancies; blood grouping and transfusion; thrombotic conditions.

Home department: Medicine and Health Sciences Central

XXXXX Health Assessment, Diagnosis, Treatment and Care**XXX (25) Health Assessment, Diagnosis, Treatment and Care**

This module enables students to critically apply their knowledge, skills, values, inclusive of person-centeredness, and clinical reasoning in various primary health care contexts to assess, diagnose and manage patients, and prescribe treatment.

Home department: Nursing and Midwifery

11523 Health Care Systems**871 (15) Health Care Systems**

This semester module is a core module for the MPhil (Emergency Medicine) programme with the objective to help students understand emergency care systems, processes and flow, patient safety and quality improvement in emergency care. The module entails five contact days and a number of assignments. A project on quality improvement in the student's work environment is required.

The assessments of the module assignments contribute 50% of the final mark, the final project contributes 30% and the final written assessment contributes 20%.

Home department: Emergency Medicine

47511 Health Management**511 (10) Health Management (2 weeks)**

Health Management: General management and principles of management; financial management; human resource management; marketing of health services.

Home department: Medicine and Health Sciences Central

13089 Health Management Report**775 (20) Health Management Report**

The health care report is a 5 000-word report on a relevant health care management topic. Students have to submit the report in A3 format as well.

Home department: Health Systems and Public Health

XXXXX Health Services Management Practices**XXX (26) Health Services Management Practices**

This module strengthens and deepens students' knowledge, skill and performance regarding management practices in health care services. Students will develop best practices in leadership, human resource management, and risk and financial management, and will develop report writing skills on these aspects in order to provide quality healthcare and excellence in care provision.

Home department: Nursing and Midwifery

13081 Health Systems, Policy and Financing**775 (10) Health Systems, Policy and Financing**

Students learn to understand the goals and objectives of health systems (e.g. health, financial and social risk protection, equity, efficiency, effectiveness and choice); to identify key challenges faced by health systems, and responses to these; and they become familiar with global trends in health system reform.

Home department: Health Systems and Public Health

61395 History of Sport**745 (12) Sport History**

Sport history.

Home department: Sport Science

14366 HIV and TB**775 (30) HIV and TB**

Students will study the basic sciences, epidemiology, diagnostic strategies, the effective and safe use of therapeutic options and preventative strategies for HIV and TB. In addition, for HIV they will study the diagnosis and management of common illness conditions seen in people living with HIV. In addition, for TB they will study the diagnosis and management of the different manifestation of both drug-susceptible and drug-resistant TB. Transversal themes of infection prevention and control, antibiotic stewardship, reproductive health, infection-related imaging and basic biology and laboratory diagnosis form an integral part of this module.

Home department: Infectious Diseases

13033 Human Anatomical Variation**771 (10) Human Anatomical Variation**

Human anatomical variation is present in all humans and is demonstrated by the lack of bilateral symmetry in any one individual and by variation within any particular population group.

Home department: Clinical Anatomy

11103 Human Communication and Communication Disorders**812 (45) Human Communication and Communication Disorders**

The content of this module will be determined by the head of the Division in consultation with the student.

Home department: Speech-Language and Hearing Therapy

13257 Human Economic Development**813 (10) Human Economic Development**

This theme focuses on providing insight into the concept, theories and measures of economic development. It serves to further examine the extreme contrast not only between developed and developing countries, but also the different livelihood situations between population groups/families inside the countries.

Home division: Agricultural Economics

11038 Human Genetics Research Project**776 (75) Human Genetics Research Project**

Students will conduct research on a subject related to human genetics under the guidance of a supervisor. At the end of the project, the students will be examined on the basis of a thesis, completed with the assistance of their supervisor, and an oral presentation of the project. A written examination and the evaluation mark awarded by the supervisor further contribute to the project mark.

Home department: Molecular Biology and Human Genetics

47295 Human Genetics Theory**715 (45) Human Genetics Theory**

The module consists of lectures, two written examinations and the writing of a literature review.

Home department: Molecular Biology and Human Genetics

14207 Human Physiology**171 (20) Human Physiology (4L, 2P)**

This is an introductory module which aims to provide students with a firm knowledge base and understanding of the normal functional components, as well as principles and processes involved in the functioning of the physiological systems of the human body. The module begins with an overview of the levels of organisation in the body, physiological control systems and communication within the body. This is followed by basic molecular biology, energy metabolism, cellular structure, function and homeostasis. Students will be able to utilise concepts gained from the study of anatomy in their study of the organ systems. This includes the function and integrated relationships of the musculoskeletal, cardiovascular, lymphatic, immune, respiratory, gastrointestinal, urinary and reproductive (urogenital), nervous and endocrine systems.

Home department: Medical Physiology

XXXXX Human Resource Management**XXX (20) Human Resource Management**

This module introduces scientific human resource and labour relations management paradigms in healthcare management. The content focuses on the strengthening of human resource management to create improved recruitment, selection, retention and development of people in the workplace. The students are also empowered with the knowledge and use of legal and ethical aspects related to relevant legislation, principles of disciplinary action, solving grievances, collective bargaining, arbitration and the settlement of disputes.

Home department: Nursing and Midwifery

11008 Immunology**775 (30) Immunology**

Inflammatory/infective; auto-immune parameters; infective serology; lymphocyte and neutrophil studies; flow cytometry; clinical immunology; primary immunodeficiencies, infections and rheumatology.

Home department: Anatomical Pathology

10553 Industrial Psychology**262 (8) Ergonomics (1,5L, 0,5P)**

Nature and history of Ergonomics, Context of Ergonomics (general and environment effects, legislation, management and productivity, built environment), perception and sensation (senses, observation, conscious and unconscious, memory and attention), work environment (space and shape, lighting, noise and vibration, temperature, atmospheric and chemical, processing information and design guidelines), input (displays), output (activities and rest), controls and tools, systems malfunction (errors, safety and health), introduction to Information Ergonomics (mental maps and usability), summary.

Home department: Industrial Psychology

36846 Industrial Psychology (Occupational Therapy)**132 (6) Industrial Psychology (Occupational Therapy) (2L)**

The human being as employee; human resource planning; recruitment; selection; placement and induction; communication; motivation; leadership in organisations; overview of labour relations. The module is designed for students in Occupational Therapy and these perspectives will be highlighted throughout.

Home department: Industrial Psychology

52434 Infections and Clinical Immunology**471 (20) Infections and Clinical Immunology (4 weeks)**

Principles of infectious diseases; congenital and acquired immunodeficiencies; pyrexia of unknown origin; tuberculosis; septicaemia and bacteraemia; infections that can result in shock; HIV; tropical and travel-associated diseases; sexually transmitted infections; zoonoses; neonatal infections; childhood diseases; bioterrorism; toxin-associated diseases; management of a community outbreak; infection control; immunisation; role of special examinations; anti-infective therapy.

Home department: Medicine and Health Sciences Central

53899 Information Skills**172 (6) Information and Computer Competence (1L, 1P)**

Study and practice of information usage, the WWW and selected software programs – such as word processing, databases, spreadsheets and presentations – that are necessary for communication and information purposes in the humaniora.

Assessed flexibly.

Home department: Information Science

Formula for Final mark: The class mark counts as the final mark.

38962 Integrated Pathology**871 (60) Integrated Pathology**

Integrated Pathology, including Chemical Pathology, Haematology, Microbiology, Virology, Molecular Pathology and Research Methodology.

Home department: Haematological Pathology

13650 Introduction to Biochemistry and Biophysics**141 (10) Introduction to Biochemistry and Biophysics (1L, 1P)**

This module establishes a scientific background to, understanding of, and insight into the essentials of biophysics and biochemistry to enable students to integrate this understanding into clinical nursing practice.

Home department: Nursing and Midwifery

52388 Introduction to Clinical Medicine**271 (20) Introduction to Clinical Medicine (4 weeks)**

The structure, tasks and communication skills required of the consultation. Obtaining and documentation of the medical history. Systematic physical examination and documentation. Vital signs. Hand washing. Mutual interaction of disease, circumstances of life and the psyche of the patient. Demands consultation places on physician. Health risks for the doctor. Principles of clinical epidemiology. Doctor-patient relationship. Boundaries appropriate during a consultation. Ground principles of relevant medical ethics. Influence of gender, culture, language, socio-economic status and literacy on the doctor-patient bond of confidentiality. Principles of palliative care. The IMCI approach. Percentile and road to health charts. Psychiatry history and examination. Cardiovascular System. Respiratory System. Paediatric Examination: Four parallels of neurological development. Normal neurological development at the ages of 3, 6, 9 and 12 months. Urological examination. Gynaecological examination. Gastrointestinal system. Musculoskeletal system. Surgical conditions: the mouth, salivary glands and cervical lymph nodes, thyroid, breasts, a mass, an ulcer and a hernia. Examination of the ear, nose and throat. Urine investigation. Geriatric patient: changes in physiological processes that occur with normal ageing and the practical implications, geriatric assessment (including MMSE, functional and social assessment), geriatric syndrome: dementia, delirium, instability (including syncope), immobility, incontinence, medication, and the regimen and pitfalls in a geriatric patient. Cognitive, emotional and behavioural responses of a patient. Multi-faceted effect of disease on a patient and his environment. Distinctive problems arising from disease in each life phase.

Difference between healthy and unhealthy disease adjustment. Integrative medicine. CPR.

Home department: Medicine and Health Sciences Central

13261 Introduction to Epidemiology**841 (10) Introduction to Epidemiology**

The content module will cover basic principles of nutritional epidemiology and types of nutritional surveys, the association between poverty and health, and the social determinants of health.

Home department: Human Nutrition

14325 Introduction to Global Health**875 (12) Introduction to Global Health**

This module covers concepts, theory and application of global health and related areas. The module entails sessions focusing on the following topics: Introduction to Global Health; Global Health priorities and Sustainable Development Goals (SDGs); Health Inequalities in Global Health context; Priority and Vulnerable Populations; Global Health Actors and Networks; Health Systems, Services, Resources, Programmes; Trade, Policy and Global Health; Global Health Protection and Security; Environment, climate change and Global Health; and Globalization and emerging infectious diseases.

Home department: Global Health

64777 Introduction to Molecular Pathology**775 (17) Introduction to Molecular Pathology**

DNA, RNA and hereditary information; structure of the human genome; patterns of inheritance: expression of phenotypes; strategies to identify disease-causing mutations; DNA sequencing; phylogenetics and molecular epidemiology; detection and amplification of nucleic acids; in situ diagnostics; proteomics; flow cytometry; tissue culture and cytogenetics.

Home department: Anatomical Pathology

61077 Kinanthropometry**715 (12) Kinanthropometry**

Kinanthropometry.

Home department: Sport Science

11264 Kinderkinetics Theory**772 (12) Kinderkinetics**

Gross motor development of children.

Home department: Sport Science

19305 Kinesiology**162 (8) Anatomy (2L, 1P)**

Anatomical and movement terminology; structure and function of tissue types of the human body; knowledge of the human body as a unit of mobility (skeletal and muscular) structure and function; knowledge of selected supporting systems to the mobility unit.

Home department: Sport Science

182 (8) The Sport Experience (2L, 2P)

Sport performance as a personal experience; demonstration, strategies, insight, enhancement of selected team and individual sport types played by different cultural groups in Southern Africa.

Flexible assessment.

Home department: Sport Science

312 (8) Sport Injuries (2L)

General principles and classification of sport injuries. Biomechanics of sport injuries. Overuse syndrome. Sport injuries of upper and lower limbs. Injuries in sport for persons with disabilities.

Home department: Sport Science

332 (8) Peak Performance (2L)

Programme design through principles of classification and the application thereof on elite sport performance. Periodisation of training. Recovery strategies.

Home department: Sport Science

342 (8) Sociological and Psychological Aspects of Sport Performance (2L)

Relationship between sport and social institutions; specific considerations for the coaching of children; the sport credo; sport and the media; use of specific psychological skills for enhancement of sport performance; psychometrics.

Home department: Sport Science

352 (8) Tests and Measurement (2L)

Principles of valid and reliable assessment of fitness and sporting performance by means of statistical techniques and general assessment strategies.

Home department: Sport Science

372 (8) Values and Ethics in Professional Applications (2L, 2P)

Philosophical context of physical activities; social and cultural tendencies about physical activities in SA; heterogeneous groups and physical activity; moral behaviour in physical activity, sport and recreation.

Home department: Sport Science

14009 Knowledge Translation**875 (12) Knowledge Translation**

This module will cover the principles of knowledge translation and evidence-informed decision-making, stakeholders assessment, engagement strategies relevant to various target audiences, resource considerations for a comprehensive knowledge translation strategy, monitoring and evaluation processes, as well as outcomes relevant to knowledge translation that affect research use.

Home department: Global Health

11105 Laboratory Management**875 (10) Laboratory Management**

An understanding of the principles of laboratory management as they apply to pathology.

Home department: Chemical Pathology

64718 Laboratory Practice**776 (3) Laboratory Practice**

Bioethics of laboratory practice, laboratory safety and legal aspects of laboratory practice.

Home department: Anatomical Pathology

65730 Late Clinical Rotations**678 (150) Late Clinical Rotations (60 weeks)**

This module and the Clinical Rotations 541 module form the student intern year. No formal theoretical lectures. In the Late Clinical Rotations 678 module, the practical application of the clinical disciplines is consolidated through students' involvement in patient care, ward rounds, case discussions, seminars and outpatient clinics at Tygerberg Hospital and other relevant regional hospitals, day hospitals and clinics.

Home department: Medicine and Health Sciences Central

XXXXX Leadership and Development in Specialist Practice**XXX (8) Leadership and Development in Specialist Practice**

This module focuses on the development of students as specialist nurses or midwives who have to provide leadership in terms of knowledge and management skills, continuous professional development and practice transformation in the context of a speciality area. These goals are strengthened in order to improve quality and excellence in care provision.

Home department: Nursing and Midwifery

13082 Leadership and Innovation in Health Care**737 (5) Leadership and Innovation in Health Care**

Students learn to understand leadership, processes of change and change management, and to develop skills of personal leadership and emotional intelligence. They also learn to develop and implement a path for ongoing organisational improvement.

Home department: Health Systems and Public Health

757 (5) Leadership and Innovation in Health Care

Students learn to understand leadership, processes of change and change management, and to develop skills of personal leadership and emotional intelligence. They also learn to develop and implement a path for ongoing organisational improvement.

Home department: Health Systems and Public Health

XXXXX Leadership and Management**XXX (30) Leadership and Management**

This module strengthens and deepens students' knowledge, skills and performance regarding leadership and management in healthcare services. Students will develop best practices in strategic management, entrepreneurship, innovation and health policy management to improve quality healthcare and excellence in care provision.

Home department: Nursing and Midwifery

14008 Legal and Ethical Aspects and Use of Animals in Research**771 (10) Legal and Ethical Aspects and Use of Animals in Research**

Basic skills and knowledge to communicate coherently orally and in writing on the current legal position and on the major ethical and moral implication of using human material and tissue for research and education purposes. Gaining of knowledge and understanding on ethical handling, care and use of research animals for scientific purposes.

Home department: Clinical Anatomy

13262 Macro- and Micronutrients and Health**842 (10) Macro- and Micronutrients and Health**

This theme focuses on providing insight into the problem of malnutrition and evidence-based approaches to address the problem.

Home department: Human Nutrition

13065 Management and Leadership**871 (15) Management and Leadership**

This semester module is an elective for the MPhil (Emergency Medicine) programme with the objective to help students understand management and leadership in health care. The module entails web-based assignments and readings, a final project and a summative assessment.

Web-based assignments contribute 40% of the final mark, the final project contributes 40% and the summative assessment contributes 20%.

Home department: Emergency Medicine

64807 Management Principles**377 (18) Management Principles (2,5L)**

Basic principles of management required to be a successful entrepreneurial dietitian: planning, organisation, guidance and control. Leadership, communication, ethics in management, human resources and people management. Compilation of a business plan. Basic principles of financial management and quality control. Relevant labour legislation (Labour Act, Basic Conditions of Employment Act and Employment Equity Act).

Home department: Human Nutrition

13087 Managing Health Technology and Infrastructure**775 (10) Managing Health Technology and Infrastructure**

The aim of this module is to arm health care managers with the essential insights and tools needed to effectively plan, assess, acquire and measure the performance of health technologies and physical infrastructure as part of appropriate, cost-effective and quality health care delivery. Topics to be covered include health technology overview; health technology planning and acquisition; health technology assessment; health facility design, planning, briefing and assessment; asset management and maintenance; hospital engineering and facilities management; management information systems; clinical engineering and risk management related to medical equipment; eHealth, mHealth and telehealth/telemedicine; airborne-infection control; fundamentals of project management; systems thinking; and integrated health care.

Home department: Health Systems and Public Health

53937 Managing Operations**775 (10) Managing Operations**

The module takes a systems view (embracing equipment, systems and people) of processes designed and operated to deliver specific outcomes. The content moves on from understanding purpose to analysing process, and then to planning and implementing improvement.

Home department: Health Systems and Public Health

13084 Managing Self and Others for Optimal Service Delivery**775 (10) Managing Self and Others for Optimal Service Delivery**

People management and human resource planning: Students learn about leading people in a diverse and ever-changing context to optimise service delivery and to motivate and retain staff.

Home department: Health Systems and Public Health

XXXXX Maternal and Neonatal Care Pharmacology**XXX (8) Maternal and Neonatal Care Pharmacology**

This module aims to enable students in a midwifery specialisation to gain knowledge of the issues surrounding the prescription, administration and use of medication within the context of normal and abnormal childbirth as well as within the neonatology context.

Home department: Nursing and Midwifery

13665 Maternal and Newborn Care I**341 (14) Maternal and Newborn Care I (3L)**

This module covers the theory for normal midwifery care. A humanist approach to antenatal, intranatal, postnatal, newborn and family health care is applied. The module integrates and applies relevant basic sciences understanding, as well as legal and ethical principles necessary to the care of a perinatal woman and newborn in providing midwifery care during an uncomplicated pregnancy.

Home department: Nursing and Midwifery

13673 Maternal and Newborn Care II**431 (14) Maternal and Newborn Care II (2L)**

This module prepares the student with the knowledge and understanding necessary for responsible and accountable professional care. The focus of the module guides a student to work in partnership with a woman to provide the necessary support, care and advice during pregnancy, labour and the postpartum period, including care of the newborn. The module develops from Maternal and Newborn Care I to include complications in the maternal and newborn, appropriate obstetric and neonatal emergency care and referral.

Home department: Nursing and Midwifery

13666 Maternal and Newborn Care: Practice I**341 (12) Maternal and Newborn Care: Practice I (2P)**

This module offers clinical application of midwifery through work-integrated learning and clinical skills training. Through various clinical learning opportunities, a student will become able to integrate theoretical knowledge in order to design and implement antenatal, intranatal, postnatal, newborn and family health care in clinical environments.

Home department: Nursing and Midwifery

13674 Maternal and Newborn Care: Practice II**471 (12) Maternal and Newborn Care: Practice II (2P)**

This module prepares the student to work in partnership with a woman to provide the necessary support, care and advice during high risk pregnancy, labour and the postpartum period, including care of the newborn. The student will become able to detect complications in the mother and newborn to facilitate access to appropriate obstetric and neonatal emergency care and referral as appropriate.

Home department: Nursing and Midwifery

XXXXX Maternal Care Specialisation**XXX (28) Maternal Care Specialisation**

The content of this module is aligned to the South African Nursing Council requirements for a midwife specialist. The focus of this module is to enable students to acquire specialist knowledge and clinical competencies to provide high-quality, culturally sensitive and evidence-based maternal care on all levels. Students will be able to critically assess, plan, implement and evaluate reproductive health services, and preconceptual, antenatal, intranatal and postnatal care within a multidisciplinary team utilising a holistic person-centred approach. The specialist knowledge will also enable students to plan, facilitate, co-ordinate and participate in health promotion campaigns.

Home department: Nursing and Midwifery

43737 Medical Microbiology**142 (6) Medical Microbiology (2L, 0,5P)**

Basic microbiology and immunology, including bacteriology, mycology, parasitology and virology pertaining to dietetics. Food- and water-borne diseases with emphasis on food contamination and the prevention thereof. Basic principles of sterilisation and disinfection with application to the food preparation area. Effects that our diet has on the immune system.

Home department: Medical Microbiology

874 (70) Medical Microbiology

The following are presented:

- Medically important bacteria, fungi and parasites;
- The laboratory diagnosis of bacterial, fungal and parasitic diseases; and
- The basis of infectious diseases, antimicrobial therapy and testing, immunology, quality control, pathology in primary care and infection control.

It is a requirement that a portfolio of case studies and a log book of laboratory techniques be compiled during the rotation.

One written paper, a practical examination and an oral examination. External examiners are involved in these examinations in accordance with University guidelines.

Home department: Medical Microbiology

43745 Medical Virology**871 (70) Medical Virology**

Training consists of a theoretical and a practical module and educational activities:

- Practical training and skills development in laboratory techniques;
- Registrar discussions, seminar presentations, ward round attendance; and
- The student is responsible for compiling a portfolio with the purpose of continuously updating it with newly acquired skills and educational activities.

Flexible assessment: A portfolio of evidence shall be submitted as part of the flexible assessment and is a prerequisite for graduation. Details of the flexible assessment are provided in the study guide. Final formal assessment of the Virology rotation is done by means of a written, practical and oral examination.

Home department: Medical Virology

13661 Mental Health across the Lifespan**331 (12) Mental Health across the Lifespan (2L)**

This module explores the concept of mental health and the range of mental disorders that cut across many aspects of health and quality of life for people. Various therapeutic approaches are introduced, with particular emphasis on therapeutic relationships and psychosocial rehabilitation.

Home department: Nursing and Midwifery

13662 Mental Health across the Lifespan: Practice**331 (10) Mental Health across the Lifespan: Practice (2P)**

In this module, students practise skills in developing and providing psychosocial nursing interventions in the form of integrated care plans that reflect a comprehensive and integrated assessment of mentally ill persons. These skills will also be applied to patients suffering mental disorders within biomedical settings.

Home department: Nursing and Midwifery

13035 Microscopic Anatomy and Histological Technique**771 (20) Microscopic Anatomy and Histological Technique**

Laboratory technique for the research of the relation between the structure and function of human tissue through routine and specialised colouring techniques.

Home department: Clinical Anatomy

13270 Molecular Basis of Cancer and Tumour Physiology**871 (12) Molecular Basis of Cancer and Tumour Physiology**

This module will mainly focus on the molecular aspects leading to tumour formation, growth and metastasis. Topics that will be covered include: the biological properties of cancer cells, genetic aspects of tumour formation, heterogeneity and structural complexity of solid tumours, the tumour microenvironment and drug resistance, the influence of hypoxia and neo-angiogenesis on tumour growth, hypoxic inducible factors (HIF) and tumour invasion, theories involving aerobic glycolysis and the Warburg hypothesis.

Home department: Interdisciplinary Health Sciences

64688 Morphological Sciences Research Project**775 (60) Morphological Sciences Research Project**

The research project assigned to each student will flow from current research undertaken in one of the divisions involved in the BScHons (Morphological Sciences) programme. The content will be determined by the nature of the project.

Home department: Anatomical Pathology

61123 Motor Control**711 (12) Motor Control**

Motor control.

Home department: Sport Science

61131 Motor Learning**741 (12) Motor Learning**

Motor learning.

Home department: Sport Science

44229 Movement Education Sport and Recreation**212 (8) Teaching and Programme Development (2L, 4P)**

Teaching expertise, management skills and motivational strategies, design of physical activity programmes, planning and presenting teaching.

Home department: Sport Science

222 (8) Adapted Movement Programmes (2L)

The importance of correct body alignments for successful motor performance; analysis of causes of posture deviations; introductory knowledge of various disabilities.

Home department: Sport Science

242 (8) Sport and Recreation Management (2L)

Principles of planning, organising, leading and control in sport and recreation; marketing management: market differentiation, identification of target groups, needs assessment, formulation of objectives, marketing strategies, the marketing recipe and strategic planning.

Home department: Sport Science

282 (8) Structure of Physical Activities (2L, 5P)

Performance enhancement in various sport types and movement forms; team co-operation; social behaviour within the physical environment; teaching tips and incentives; learning of motor skills and development of fitness; knowledge of the role of a coach, official and referee.

Flexible assessment.

PP Sport Science 184 or

PP Kinesiology 182

Home department: Sport Science

52302 Musculoskeletal System**371 (30) Musculoskeletal System (7 weeks)**

Bone: classification, development and growth; the skeleton; joints; cartilage: composition and function; composition and function of the synovial fluid; skeletal muscle: organisation, structure and function. Applied anatomy of the upper limb, lower limb and spinal column, applied physics. Musculoskeletal terminology and deformities; clinical methods; infective conditions of the musculoskeletal system. Degenerative disorders of the musculoskeletal system; radiological evaluation and appropriate special investigations; rheumatology; arthroplastics of the musculoskeletal system (prosthetics). Congenital and developmental disorders; oncological disorders of bone, joints and soft tissues; conditions and deformities of the spinal column; conditions and deformities of the upper limbs; conditions and deformities of the lower limbs; vascular abnormalities of the musculoskeletal system. Rehabilitation and appliances; emergency management of trauma and the multiply injured patient. General principles in the diagnosis and management of trauma; technique for plaster of Paris, splints and bandages; compartmental syndrome; fractures and dislocations of the vertebral column and pelvis fractures and dislocations of the upper limbs; fractures and dislocations of the lower limbs; sports injuries and injuries due to over-use; soft tissue injuries of the musculoskeletal system.

Home department: Medicine and Health Sciences Central

XXXXX Neonatal Care Specialisation**XXX (20) Neonatal Care Specialisation**

The content of this module is aligned with the South African Nursing Council's requirements for a midwife specialist. The focus of the module is to acquire knowledge of high-risk neonatal care and clinical competencies to provide quality, culturally sensitive and evidence-based neonatal care on all levels. Students will be able to critically identify, diagnose, plan, implement and evaluate the physiological adaptation of the neonate, and growth, development and complications related to the antenatal, intranatal and postnatal periods. This knowledge and skills will enable students to provide comprehensive, family-centred neonatal care and engage in health promotion activities.

Home department: Nursing and Midwifery

11055 Neuroanatomy and Applied Regional Anatomy**871 (20) Neuroanatomy and Applied Regional Anatomy**

Neuroanatomy, including the anatomy of the central nervous system and peripheral nervous system, as well as regional anatomy applicable to neurosurgery.

Home department: Clinical Anatomy

59285 Neuroanatomy and Clinical Neurology**372 (14) Neuroanatomy and Clinical Neurology (3L)**

Neuroanatomy: subsections of the nervous system; cerebrum, brainstem, cranial nerves, cerebellum, diencephalon, basal ganglia, hippocampus, hypothalamus; limbic system, autonomic nervous system; spinal cord. Principles and methods of neurological assessment; lesions of the cortex and internal capsule; coma and the unconscious patient; brainstem lesions; lesions of the extrapyramidal system; lesions of the cerebellum; spinal cord lesions.

Home department: Clinical Anatomy

11058 Neuropathology**871 (20) Neuropathology**

The skills and knowledge needed to diagnose the most common CNS conditions. Familiarity with the general aspects of a neuropathology laboratory.

Home department: Anatomical Pathology

11056 Neurophysiology: EEG**874 (60) Neurophysiology: EEG**

Principles and interpretation of EEG.

Home department: Internal Medicine

11057 Neurophysiology: EMG**875 (60) Neurophysiology: EMG**

Principles and interpretation of EMG.

Home department: Internal Medicine

11059 Neuropsychiatry**873 (40) Neuropsychiatry**

Diagnosis and handling of neuropsychiatric conditions.

Home department: Psychiatry

11060 Neuroradiology**871 (40) Neuroradiology**

Principles of neuroradiological special examinations, radiological features of neurological conditions.

Home department: Anatomical Pathology

52299 Neurosciences**371 (30) Neurosciences (8 weeks)**

Development and morphology of the neuron and central, peripheral and autonomic nervous systems (organisation, neurotransmitters and receptors); sensory, motor and integrative (higher) functions of the brain; ventricular system and cerebrospinal fluid; neuralgia and the blood-brain barrier.

Localisation of neurological lesions; embryological abnormalities of the nervous system. Disturbances in consciousness; raised intracranial pressure and space-occupying lesions. Epilepsy; brain and spinal cord trauma; cerebrovascular incidents. Abnormalities of balance and coordination; degenerative conditions of the central nervous system and chronic neurological disorders; weakness; headache, facial pain and nerve root pain; infections of the central nervous system. Cost-effective use of neurological services. General neurological emergencies; substance abuse and dependence; schizophrenia and other psychoses; mood disorders; anxiety disorders. Somatic symptoms and psychosomatic disease. Sexual identity and sexuality. Eating disorders. Disorders of impulse control; sleep disorders. Forensic neuroscience and ethics. Adaptation disorders; dissociative disorders; relationship problems and conflict management. Personality disorders. Psychotherapy. Normal and abnormal physical and psychological development in children. Geriatric psychiatry. Syndromes specific to South African culture. Visual system; the eye examination; acute loss of vision; chronic visual loss; ophthalmological emergencies; the eye in systemic disease; adnexal and external eye disorders; motility disturbances of the eye. Community otology; hearing and the semicircular canal system; hearing loss; otalgia; otorrhoea; complications of ear infections; seventh cranial nerve palsies.

Home department: Medicine and Health Sciences Central

16543 Neurosurgery**875 (270) Neurosurgery**

Principles and practices of neurosurgery. Comprehensive knowledge of pathology, and clinical and diagnostic imaging. Handling and surgery of the following conditions: congenital, neurovascular, neuro-oncology, neuro-spinal and neuro-infectious, and pain handling in both adults and children.

Home department: Neurosurgery

32212 Neurosurgery (Intermediate)**874 (30) Neurosurgery (Intermediate)**

Surgical principles and specialties, and intensive care.

Home department: Neurosurgery

XXXXX Nursing Education Practice**XXX (33) Nursing Education Practice**

In this module, students develop knowledge of a variety of aspects of nursing education practice. Through actual application of theory and appropriate teaching and learning methods and strategies, students explore their own abilities as active learners.

Attention is also paid to the development of nursing education in South Africa and legislation relevant to nursing education practice. The functioning of a nursing education institution/school with respect to leadership and management, organisational structures, regulatory measures, policies and procedures, and student affairs is explored.

Home department: Nursing and Midwifery

36080 Nutrients in Health**142 (20) Nutrients in Health (6L, 3P)**

Knowledge, interpretation and application of the metabolism, requirements, functions and basic clinical application of energy, macronutrients and micronutrients. Nutritional implications of alcohol. Dietary planning using recommended guidelines. Introduction to functional foods.

Home department: Human Nutrition

56049 Nutritional Epidemiology**811 (30) Nutritional Epidemiology**

Nutritional epidemiology, research methodology, biostatistics and epidemiology relating to nutrition disorders.

Home department: Human Nutrition

11828 Nutritional Status Assessment**231 (12) Nutritional Status Assessment (3L, 3P)**

Study and practical application of techniques for the evaluation of the nutritional status of an individual and the community (diet methodology, anthropometry, body composition analysis, clinical investigations). Demonstration and interpretation of basic measures of non-invasive physical fitness and routine screening methods (urine analysis, finger prick blood glucose, haemoglobin and cholesterol tests, vital signs). Introduction to patient history taking, and screening procedures for malnutrition. Mini-project: the analysis and interpretation of dietary records.

Home department: Human Nutrition

13499 Nutrition and Economic, Human and Social Development**812 (15) Nutrition and Economic, Human and Social Development**

This module will focus on developing insight into the multiple factors influencing health and nutrition security and the rationale for multisectoral and evidence-based approaches to improve health and nutrition.

Home department: Human Nutrition

13495 Nutrition, Health and the Environment**812 (15) Nutrition, Health and the Environment**

This module will focus on the comprehensive understanding of the relationship between nutrition, health and the environment; the relationship between climate change, health and nutrition; and climate change and food and nutrition security, with particular reference to Southern Africa.

Home department: Human Nutrition

13503 Nutrition in Health and Disease Prevention**812 (15) Nutrition in Health and Disease Prevention**

The module will focus on developing insight into the concept “nutrition transition”; macro- and micronutrients in health and disease prevention; health promotion and education principles; and evidence-based interventions to address child, maternal and women’s health and nutrition.

Home department: Human Nutrition

46957 Nutrition in the Life Cycle**214 (15) Nutrition in the Life Cycle (3L, 1P)**

Study of the nutritional needs, nutritional care and nutritional problems which occur most commonly, as well as the prevention and management of these in the various stages of the life cycle (pregnancy, lactation, infant and young child, adolescent, adult and the elderly).

Home department: Human Nutrition

20923 Obstetrics**872 (120) Obstetrics**

This module includes general obstetrics, community obstetrics, high-risk obstetrics and maternal/foetal medicine.

Home department: Obstetrics and Gynaecology

10464 Occupational Therapy**178 (40) Occupational Therapy (8L, 4P)**

Introduction to the basic concepts of occupational therapy practice. Professional development through the establishment of knowledge, views and skills. The development of the conceptual underpinning within health sciences and specifically within occupational therapy. Using and understanding relevant academic content.

Home department: Occupational Therapy

278 (60) Occupational Therapy (2L, 2P)

Assessment of occupational performance and factors impacting on performance; learning about activities, techniques and assistive technologies. The development of basic oral and listening skills in either Afrikaans or isiXhosa within the occupational therapy context. The nature and dynamics of professional consultation.

Home department: Occupational Therapy

43990 Occupational Therapy: Practical**374 (62) Occupational Therapy: Practical (17P)**

Applying the occupational therapy process to render direct services to patients and clients.

Home department: Occupational Therapy

478 (112) Occupational Therapy: Practical (3L)

Consolidation of practical work in rendering occupational therapy services. Integrating the theory and practice of occupational therapy to meet the specific needs of individuals and groups.

Home department: Occupational Therapy

43982 Occupational Therapy: Theory**372 (32) Occupational Therapy: Theory (8L)**

Theory and principles for promotion of occupational performance and components impacting on participation. Clinical work: application of activities, techniques and assistive technologies.

Home department: Occupational Therapy

484 (26) Occupational Therapy: Theory (1L)

Integration and application of theory and principles for promotion of occupational performance and components impacting on participation. Professional matters concerning the profession, health service provision and occupational therapy services. Application of activities, techniques and assistive technologies in occupational therapy practice. Running a practice: integration of theory and practical work.

Home department: Occupational Therapy

11063 OMT – Approaches and Concepts**863 (20) OMT – Approaches and Concepts**

Current principles and application of manual therapy and rehabilitation concepts, as well as the science of pain. Principles of assessment, clinical reasoning and management of the neuro-musculo articular system. Concepts of medical and behavioural sciences.

Home department: Physiotherapy

11066 OMT – Clinical**892 (25) OMT – Clinical**

Assessment, independent clinical reasoning and management of patients with a variety of neuromuscular articular dysfunctions demonstrating:

- proficient practical skill in assessment and management; and
- rehabilitation of a patient to maximal functioning and role participation.

Home department: Physiotherapy

11065 OMT – Integrated and Advanced Practice**852 (10) OMT – Integrated and Advanced Practice**

Application of clinical reasoning, integration of functional rehabilitation models, and variation of appropriate management strategies to rehabilitate chronic/extensive/complicated neuromusculo articular systems according to current concepts acknowledged by the International Federation of Orthopaedic Manipulative Therapists and the World Health Organization.

Home department: Physiotherapy

11067 OMT – Lower Quadrant**882 (15) OMT – Lower Quadrant**

Assessment, appropriate management and prevention of lower quadrant dysfunctions of the neuromusculo articular systems according to current concepts and based on principles of evidence-based clinical reasoning in a bio-psychosocial model.

Home department: Physiotherapy

11064 OMT – Upper Quadrant**873 (12) OMT – Upper Quadrant**

Assessment, appropriate management and prevention of upper quadrant dysfunctions of the neuromusculo articular system according to current concepts and based on principles of evidence-based clinical reasoning in a bio-psychosocial model.

Home department: Physiotherapy

11070 Operational Hyperbaric Medicine**773 (35) Operational Hyperbaric Medicine**

On completion of the module, the medical practitioner shall be able to administer hyperbaric oxygen therapy to a patient. The training includes exposure to hyperbaric medical practices, as well as the handling of concomitant emergencies.

Home department: Health Systems and Public Health

11071 Operational Underwater Medicine**773 (30) Operational Underwater Medicine**

After successful completion of this module, the medical practitioner will be able to provide a company in which divers are involved (or any other group of divers) with operational medical assistance, including the prescription and provision of recompression therapy in the case of a diving accident.

Home department: Health Systems and Public Health

17221 Optics**874 (40) Optics**

Basic and applied clinical optics is covered. At the end of the module, the candidate must demonstrate the ability to perform a clinical refraction successfully.

Home department: Ophthalmology

45330 Otorhinolaryngology [Part II]**871 (100) Otorhinolaryngology**

Prior to writing the Part II examination, the candidate must have had three to six months working experience in an intensive care unit.

Home department: Otorhinolaryngology

17183 Otorhinolaryngology [Part III]**871 (160) Otorhinolaryngology**

Specialised knowledge is required of:

- Advanced ORL Basic Sciences;
- ORL Medicine;
- ORL Surgery; and
- Head and Neck Surgery.

Prior to writing the final ORL examination, the candidate must have four years' experience working in an accredited academic ENT department.

Home department: Otorhinolaryngology

14138 Paediatric Infectious Diseases**775 (30) Paediatric Infectious Diseases**

Students will study an approach to the systematic evaluation of a patient with infection, common community-acquired infections, tropical and travel-related infections (including malaria), fever of unknown origin, and sepsis and septic shock in the paediatric population. Transversal themes of infection prevention and control, antibiotic stewardship, reproductive health, infection-related imaging and basic biology and laboratory diagnosis form an integral part of this module.

Home department: Infectious Diseases

47813 Pathology**254 (7) Pathology (2L)**

General Pathology: aetiology, pathology, clinical picture, medical and surgical treatment and prognosis of various conditions, in the following subjects: Internal Medicine, Neurology, Paediatrics, Geriatrics, Community Health.

Home department: Health Systems and Public Health

312 (2) Pathology (1L)

Synopsis of classification; psychiatric examination; mental, anxiety, psychotic, cognitive, adaptation, substance-related, personality, somatoform and factitive disorders; child psychiatry; mourning reaction; crisis handling; malingering; psychopharmacology.

Home department: Physiotherapy

324 (10) Pathology (4L)

Anatomical Pathology; Psychiatry.

Home department: Anatomical Pathology

334 (8) Pathology (3L)

Surgery; Orthopaedics; Neurosurgery; Obstetrics and Gynaecology; Ophthalmology; Plastic Surgery.

Home department: Surgery

354 (7) Pathology (2L)

Geriatrics; Internal Medicine; Neurology; Community Health; Paediatrics

Home department: Health Systems and Public Health

12746 Pathology for Ophthalmology**876 (40) Pathology for Ophthalmology**

Basic and applied pathology with the emphasis on organ specific pathology will be mastered.

Home department: Ophthalmology

64785 Pathology Research Project**775 (60) Pathology Research Project**

The student will be assigned an appropriate research project that will flow from current research in one of the divisions involved in the BScHons (Pathology) programme. The nature of the project will be determined by the elective module in either Anatomical Pathology, Chemical Pathology, Haematology or Immunology.

Home department: Anatomical Pathology

11527 Patient Safety and Flow**871 (15) Patient Safety and Flow**

This semester module is a core module for the MPhil (Emergency Medicine) programme with the objective to help students understand patient safety and flow in emergency care. This is a web-based module with readings and assignments, and a final project on a topic related to patient safety.

The assessments of the module assignments contribute 60% of the final mark and the final project contributes 40%.

Home department: Emergency Medicine

XXXXX Perioperative Nursing in Context**XXX (40) Perioperative Nursing in Context**

This module equips students with the underpinning knowledge to function as specialist perioperative nurses. It will develop the attitudes, knowledge and skills of students to provide peri-operative patient care with insight, confidence and compassion. The themes in the module develop students' understanding of concepts, interventions and resources of various surgical disciplines, laying a foundation for students to provide clinically appropriate holistic patient care that can be individualised to meet each patient's unique health needs within a multi-disciplinary environment.

Home department: Nursing and Midwifery

XXXXX Pharmacology**XXX (15) Pharmacology**

This module enables students to integrate knowledge of pharmacological principles with clinical practice. This includes safe prescribing and dispensing practice, and administration and monitoring of drug treatment in various primary health care contexts.

Home department: Nursing and Midwifery

13655 Pharmacology and Dispensing Practice**231 (12) Pharmacology and Dispensing Practice (1L, 1P)**

This module serves as introduction to the basic principles of pharmacology, pharmacokinetics and pharmacodynamics. Basic and applied pharmacology, as well as dispensing practice in the field of nursing, are included, with a focus on applying the principles of pharmacology in the care of people, families and communities within the context of a specific need.

Home department: Clinical Pharmacology

14007 Physical and Forensic Anthropology**771 (20) Physical and Forensic Anthropology**

Study of the human body commencing with a detailed study of the skeleton in a normal individual, as well as the tracking of age-related changes from birth to 70+ years. A detailed study of physical anthropology and its relevance to forensic and other similar sciences. A study of the human osteology in a medico-legal setting, commencing with a detailed study of the skeleton in the normal individual, as well as tracking sex, age, and related changes from birth to old age. A detailed study of taphonomical influences and archaeological recovery of remains, and its relevance to forensic sciences.

Home department: Clinical Anatomy

58262 Physiological Biochemistry**142 (7) Physiological Biochemistry (2L)**

This module starts with an introduction to the basic concepts of metabolism, including the characteristics of metabolic processes in the body, the types of metabolic processes and also the role and importance of enzymes in regulating metabolic processes. Enzymes as catalysts are discussed in terms of protein structure, the principle of enzymatic catalysis, selected variables describing enzymatic reactions and the role of vitamins in this context, with a specific focus on thiamine as an example. Following this broad introduction, the most important metabolic pathways involved in glucose, fatty acid and protein metabolism are discussed with a specific focus on how these pathways are regulated, as well as their role in the context of human energy metabolism. Finally, biotransformation is discussed with a focus on the metabolism of alcohol.

Home department: Medical Physiology

13080 Physiology**872 (20) Physiology**

Physiology, including neurophysiology

Home department: Medical Physiology

22829 Physiology**871 (33) Physiology**

The Physiology curriculum encompasses the physiology of the upper airways (nose and sinuses, larynx, mouth, pharynx, oesophagus), auditory and vestibular systems, as well as general physiology, immunology, haematology, cardiovascular, respiratory and muscle physiology, and the central nervous system.

Home department: Medical Physiology

52205 Physiology**278 (26) Physiology (4L, 1P)**

Chemical composition of the body, muscle physiology, haematology and immunology, cardiovascular physiology, respiratory physiology, neurophysiology, physiology of the renal and reproductive systems, physiology of the digestive system and endocrinology.

Home department: Medical Physiology

60828 Physiology for Ophthalmology**871 (40) Physiology for Ophthalmology**

An in-depth knowledge of ophthalmic and general physiology as related to ophthalmic conditions will need to be mastered.

Home department: Ophthalmology

64610 Physiotherapy Practice**474 (4) Physiotherapy Practice (1L)**

Aspects of practice management; independent, self-responsible practice management; personal and personnel development; advanced aspects of ethical decision making; integration of all aspects of physiotherapeutic practice; different levels of physiotherapeutic service rendering; community physiotherapy; professionalism; occupational structures; health care law; applied ethical and moral dilemmas in health care; processes of quality insurance within the South African context.

Home department: Physiotherapy

52140 Physiotherapy Science**152 (40) Physiotherapy Science (5L, 2T, 3P)**

This module provides the student with foundational knowledge and practical skills for physiotherapy practice. At the end of this module the student will be able to observe and recognise typical human movement/function, apply techniques to identify factors contributing to dysfunction and apply treatment techniques for restoring and/or optimising function.

Home department: Physiotherapy

272 (75) Physiotherapy Science (5L, 6P)

Interviewing in physiotherapy; preventative measures of health care in general and in physiotherapy in particular; applying the principles of physiotherapy to specific anatomical structures for the physiological effects desired. Basic principles of physiotherapeutical evaluation and treatment techniques. Biomechanics of the spinal column; re-education of normal movement patterns; specific exercise programmes for the core features of physiotherapy; handling of individuals and of groups; massage; basic principles of passive manual techniques; electrotherapy. Physiotherapy techniques applied to normalise tonus; breathing exercises; techniques to mobilise secretion; walking aids; principles of positioning. Basic knowledge of relevant outcome measures. Outcomes-based therapy.

Home department: Physiotherapy

13167 Policy Analysis on Health, Disability and Rehabilitation**775 (30) Policy Analysis on Health, Disability and Rehabilitation**

Analysis of health, disability and rehabilitation policies with regard to formulation and implementation to determine the benefit for people with disabilities.

Home department: Centre for Rehabilitation Studies

11119 Practical Research Project (Medical Virology)**771 (60) Practical Research Project (Medical Virology)**

Basic virology, molecular virology or viral immunology

Home department: Medical Virology

47007 Practical Training**272 (17) Practical Training (7P)**

Exposure to patient care through therapeutic practical tasks as well as food-service and community nutrition activities, where theoretical principles are demonstrated and applied in practice. This also includes isiXhosa and Afrikaans and is aimed at basic and subject-related language skills

Home department: Human Nutrition

374 (28) Practical Training (12P)

Exposure to and evaluation of theoretical principles demonstrated and applied in practice, including patient care through ward rounds, presentation and discussion of case studies, and practical community nutrition and management-oriented tasks. Assessment of nutritional status and dietary recommendations are addressed in isiXhosa and Afrikaans.

Home department: Human Nutrition

13654 Praxis of Nursing and Midwifery Sciences I**171 (24) Praxis of Nursing and Midwifery Sciences I (4L)**

This module introduces a student to the principles and skills underpinning critical thinking and clinical judgment in health care delivery. The module will engage the student with diverse topics that contribute to the grounding of professional identity and engagement. This includes scientific writing, information and communication technology, interprofessional engagement, and graduate attributes. The student is also introduced to the theories and principles of professionalism as applied to the profession of nursing and midwifery.

Home department: Nursing and Midwifery

13660 Praxis of Nursing and Midwifery Sciences II**271 (24) Praxis of Nursing and Midwifery Sciences II (4L)**

This module deals with scientific inquiry and knowledge translation processes. A student's ability to engage in critical thinking is further developed through engaging with various contemporary theories of nursing and midwifery, applying principles of teaching and learning, developing effective communication capabilities, as well as critically reflecting on moral and ethical foundations of nursing and midwifery within the urban and rural health care services.

Home department: Nursing and Midwifery

13667 Praxis of Nursing and Midwifery Sciences III**371 (24) Praxis of Nursing and Midwifery Sciences III (4L)**

This module investigates evidence-based practices and knowledge translation within nursing and midwifery units. Leadership and management theory and application in nursing and midwifery forms a core focus of this module.

Home department: Nursing and Midwifery

13677 Praxis of Nursing and Midwifery Sciences IV**431 (12) Praxis of Nursing and Midwifery Sciences IV (2L)**

This module assists the student in integrating the knowledge gained across the programme's modules to develop and apply their understanding of leadership in nursing and midwifery in local, national and global contexts.

Home department: Nursing and Midwifery

XXXXX Praxis of Specialist Practice**XXX (8) Praxis of Specialist Practice**

This module addresses specialist practice leadership, agency and advocacy, enabling critical decision-making and resolving of professional-ethical dilemmas in specialist practice within the context of contemporary legislative and ethical framework directives.

Home department: Nursing and Midwifery

XXXXX Principles and Processes of Critical Care Nursing**XXX (28) Principles and Processes of Critical Care Nursing**

The purpose of this module is to equip students who intend to provide nursing care in critical care environments with knowledge and skills that will enable them to function as competent critical care nursing practitioners able to manage critically ill patients and the critical care environment with insight, confidence and compassion.

Home department: Nursing and Midwifery

XXXXX Principles and Processes of Emergency Nursing**XXX (28) Principles and Processes of Emergency Nursing**

This module enables the student to gain a contextual understanding of the competencies of emergency nurse specialists necessary to care for critically ill or injured patients in the emergency setting. These competencies will provide the emergency nurse specialist with the necessary fundamental knowledge and skills necessary to provide holistic patient-centred patient care according to the unique health needs and/or problems of each patient.

Home department: Nursing and Midwifery

XXXXX Principles and Processes of Mental Health Nursing**XXX (48) Principles and Processes of Mental Health Nursing**

The content of this module is aligned to the South African Nursing Council's requirements for mental health nurse specialists. From this module students will gain a contextual understanding of the competencies needed as mental health nurse specialists (e.g. identification, consultation, communication and response skills) to assist people with mental disorders, as well as abused and abusive patients. Health service dynamics and their impact on health service delivery are also explored with a view to developing students' abilities to navigate the health system.

Home department: Nursing and Midwifery

XXXXX Principles and Processes of Primary Health Care**XXX (15) Principles and Processes of Primary Health Care**

This module enables students to critically apply their knowledge, skills and values to promote the health of persons of different ages across the health continuum. This includes the application of evidence-based practice, multidisciplinary teamwork and a person- and community-centred approach in various primary health care contexts.

Home department: Nursing and Midwifery

13424 Principles of Palliative Care**371 (5) Principles of Palliative Care (20L)**

This module is designed so that students understand the principles of palliative care to enable them to manage the specific needs of patients who are living with or dying from an advanced illness, in a holistic, biopsychosocial and patient-centred manner.

Home department: Centre for Health Professions Education

64831 Professional Practice in Sport Science**773 (30) Professional Practice**

- Theoretical foundation for practising in either high-performance sport or children's physical activities.
- Models of professional practice, including assessment, programme design and methods of presentation.
- The challenge of responding to diversity in the contexts of sport and physical activity.

Flexible assessment

Home department: Sport Science

51993 Project Management**775 (10) Project Management**

Students learn about project management and programme management, and how to align the approaches with organisational and business strategy for effective implementation.

Home department: Health Systems and Public Health

18414 Psychology**114 (12) Psychology as a Science (2L, 1T)**

This module is an introduction to psychology both as a science and a profession, with specific emphasis on psychological issues that are relevant in the South African context. Psychology is positioned at the convergence of a number of traditions of research and practice, including biological, philosophical and pragmatic traditions. This introductory module gives students a basis from which to approach further study of the discipline.

Home department: Psychology

144 (12) Psychology in Context (2L, 1T)

In this module the basic principles in psychology are applied in order to understand the person in context, with particular reference to core social issues and challenges facing South African society

Home department: Psychology

213 (8) Approaches to Psychological Theories of the Person (1,5L)

This module addresses psychological theories and understandings of the person with reference to major contemporary approaches. Theories to be considered may include systemic, psychodynamic, behavioural, cognitive and existential components, with consideration of the applicability of psychological theories to African contexts.

Prerequisite pass module: Psychology 114, 144

Home department: Psychology

223 (8) Human Development in Context (1,5L)

In this module human development is studied, with specific reference to the South African context.

Prerequisite pass module: Psychology 114, 144

Home department: Psychology

243 (8) Research Design in Psychology (1,5L)

This module will equip students with knowledge and skills to evaluate the scientific literature in psychology. The module covers the core theoretical elements of both quantitative and qualitative research methodology using examples of current psychosocial issues.

Prerequisite pass module: Psychology 114, 144

Home department: Psychology

253 (8) Data Analysis in Psychology (1,5L)

This module focuses on the statistical procedures that are commonly used in psychological research. The module will equip students with knowledge and skills to analyse quantitative data and to interpret statistical results.

Prerequisite pass module: Psychology 114, 144

Home department: Psychology

12272 Psychology for Health Sciences**242 (7) Psychology for Health Sciences (2L)**

Clinical communication techniques; classical and operant conditioning; the influence of family and other interpersonal relations on behaviour; emotional bonding and development during infancy; psychosocial and intellectual development during early childhood and the establishment of behaviour patterns; personality development and identity formation; adaptation during the adult years, ageing and geriatrics; eating disorders.

Home department: Human Nutrition

13652 Psychosocial Aspects of Care**141 (12) Psychosocial Aspects of Care (2L)**

The focus of this module is to support a student in developing interpersonal skills that may be used in any nursing context. Through the module content and approach, the student is guided in augmenting self-awareness and self-identity as a foundation to developing effective communication and counselling skills.

Home department: Nursing and Midwifery

13502 Public Health Nutrition Policies and Programming**812 (15) Public Health Nutrition Policies and Programming**

The module will focus on the importance of food and nutrition programmes and food and nutrition policies; critically appraise components and success factors in nutrition programmes and related policies; monitoring and evaluation of policies; and planning of effective advocacy and communication strategies with a focus on public health nutrition policies and programming.

Home department: Human Nutrition

13088 Quality Improvement, Clinical Governance and Patient Care**775 (10) Quality Improvement, Clinical Governance and Patient Care**

Quality improvement and patient care form the central outcome for leaders in health care organisations. The body of knowledge for this module includes quality management, quality improvement, case/care/disease/utilisation management, and risk management at all employment levels and in all health care settings.

Home department: Health Systems and Public Health

14323 Qualitative Evidence Synthesis**875 (12) Qualitative Evidence Synthesis**

This module aims to provide postgraduate students with an understanding of the principles and skills to design, conduct, report and interpret qualitative systematic reviews.

Home department: Global Health

11082 Radiation Physics**874 (40) Radiation Physics**

Basic principles of radiation physics. Different treatment units include concepts of beam production. Quality assurance. Radiation protection measures related to patient, staff and public. Principles of imaging. Patient positing and immobilisation. Treatment planning and delivery.

Home department: Radiation Oncology

11082 Radiobiology**872 (40) Radiobiology**

Radiation interactions: direct and indirect effects, types of radiation damage. 4Rs of radiobiology. Cell cycle and cell survival. Fractionation, including different schedules. Biological equivalence calculations. Tumour growth and radiation response. Chemotherapy: types, mechanism of action and interaction with radiotherapy. Oxygen effect. Effects of radiation on normal tissue. Cancer biology including the hallmarks of cancer.

Home department: Radiation Oncology

13037 Radiological Anatomy**771 (10) Radiological Anatomy**

A study of the internal structures of the human body by means of X-rays, CT and MRI scans and other medical imaging techniques.

Home department: Clinical Anatomy

52418 Reproductive System**271 (20) Reproductive System (5 weeks)**

The adult reproductive system: normal structure and function; dysmenorrhoea; infertility; contraception; abortion; sexual dysfunction; the breast; menopause. Normal pregnancy; abnormal pregnancy; foetal evaluation; normal labour; abnormal labour; obstetric emergencies; the puerperium; organisation and evaluation of maternal health services; genetic and congenital deformities and management; non-systemic aspects of the neonate.

Home department: Medicine and Health Sciences Central

13533 Research Assignment**841 (60) Research Assignment**

This includes the planning and implementation of a research project. The research assignment shall be submitted in the format of a scientific report/publication.

Home department: Human Nutrition, Food Science, Agricultural Economics

56375 Research Assignment**810 (120) Assignment**

Entails a research assignment at master's level that should preferably be published in a journal. The assignment must be completed for the student to be admitted to the final examination of the Colleges of Medicine of South Africa (applicable to all students admitted to the programme as from 2008). Completion of the assignment is also a prerequisite for graduation. It comes highly recommended for students to complete a course in clinical research methods in order to successfully complete the assignment module.

Home department: Emergency Medicine

812 (120) Assignment

Scientific publication or paper based on original research conducted during the five-year residency.

Home department: Surgery

814 (60) Assignment

Research assignment: the subject and scope of the assignment are determined by the head of the Centre for Rehabilitation Studies.

Home department: Centre for Rehabilitation Studies

818 (120) Assignment

A relevant assignment that will be assessed by both internal and external examiners.

Home department: Obstetrics and Gynaecology

823 (120) Assignment

An assignment, undertaken and executed independently and presented as a formal research project, is the minimum requirement. The quality of the report must be on a par with a published article in a peer-reviewed scientific journal.

Home department: Otorhinolaryngology

824 (120) Research Assignment

The minimum requirement will be a research project undertaken and executed independently and reported in writing in the form of a thesis or a published, peer-reviewed scientific article. The level of the research report will be on a par with a published article in a scientific journal.

Home department: Ophthalmology

833 (120) Assignment

The student must have the research protocol registered within one year and complete the research assignment within three years of registration. This should be submitted in the form of an article ready for publication. Completion of this module is required before the student may write the final (Part II) examination.

Home department: Internal Medicine

836 (120) Assignment

In the format as prescribed by the Faculty of Medicine and Health Sciences.

Home department: Neurosurgery

837 (120) Assignment

Assignment, which includes a research project at master's level and which preferably has to be published in a journal. The assignment must be completed for the student to be admitted to the final examination of the Colleges of Medicine of South Africa. The completion of the assignment is also a prerequisite for graduation.

Home department: Internal Medicine

873 (120) Assignment

The research assignment includes the capacity to plan research, apply the literature study to the research, apply elementary statistical principles, conclude a project, draw meaningful conclusions, and complete an assignment or publish in a relevant scientific journal.

Home department: Anatomical Pathology

14322 Research Capacity Development**875 (30) Research Capacity Development**

The purpose of this module is to equip students with advanced knowledge and skills in research design and methodology within the context of family medicine and primary care. This will enable them to work autonomously on their own research projects, as well as develop competence in research training and development aimed at mentoring or supervising other novice researchers in these fields of study. Students will be required to demonstrate higher-order cognitive skills, an ability to critically reflect on relevant theoretical perspectives and an ability to engage with complex problem solving. Students will be required to contribute to the body of knowledge in the disciplines/fields of study in a meaningful way. Students will also be required to communicate effectively with a range of audiences using appropriate methods of communication.

Home department: Family Medicine and Primary Health Care

13659 Research in Context I**241 (12) Research in Context I (3L)**

This module introduces a student to the principles and processes of research as well as other aspects related to research within the context of health and nursing.

Home department: Nursing and Midwifery

13675 Research in Context II**471 (14) Research in Context II (2L)**

This module furthers a student's understanding of and ability to apply the research process through the design and implementation of a research project. It includes critical appraisal of published research, the use of various research designs and methodologies, project design, ethical and legal aspects, and using epidemiological principles and statistical data meaningfully.

Home department: Nursing and Midwifery

11043 Research in Medical Physiology**772 (60) Research in Medical Physiology**

A laboratory research project, culminating in the submission of an assignment, laboratory rotations and self-planned experiments.

Home department: Medical Physiology

47015 Research Methodology**312 (9) Research Methodology (2L, 1,5P)**

Problem formulation, planning of a research programme, measuring instruments, formulation of a research protocol; collection of data, organisation, classification, analysis and interpretation of data; writing research reports; standardisation and the training of field workers.

Home department: Human Nutrition

478 (16) Research Methodology (3P)

The planning, implementation, analysis and reporting of a research project in community nutrition, therapeutic nutrition or food-service management.

Home department: Human Nutrition

811 (45) Research Methodology

This module consists of fifteen weeks of internet-based teaching in research methodology, together with weekly practical tasks and two assignments. The assignments are aimed at forming the basis of the introduction and methodology of the student's research.

Home department: Speech-Language and Hearing Therapy

812 (45) Research Methodology

This module consists of fifteen weeks of internet-based teaching in research methodology, together with weekly practical tasks and two assignments. The assignments are aimed at forming the basis of the introduction and methodology of the student's research.

Home department: Speech-Language and Hearing Therapy

873 (10) Research Methodology

To improve the quality of research by postgraduate students in pathology.

Home department: Anatomical Pathology

51764 Research Methodology**775 (10) Research Methodology**

The module addresses themes such as basic biostatistics and basic epidemiology. Tutorials on research projects will be made available, and the students will be expected to complete a research project in the field of hyperbaric medicine.

Home department: Health Systems and Public Health

13044 Research Methodology in Occupational Therapy**344 (12) Research Methodology in Occupational Therapy (2L)**

Introduction to research, principles and methods of research, including research protocols, sampling, measurement, organising data and biostatistics.

Home department: Occupational Therapy

482 (12) Research Methodology in Occupational Therapy (1L)

Data reporting, alternative approaches to research and carrying out a research project.

Home department: Occupational Therapy

13047 Research Methodology (Paediatrics)**871 (20) Research Methodology (Paediatrics)**

Research toolkit: literature search; formulating the research question; introduction to research methodology; presenting research; scientific writing and peer review.

Resources for researchers: introduction to research ethics and administration; research funding; biostatistical support.

Art and philosophy of research: on becoming a scholar.

Home department: Paediatrics and Child Health

54305 Research Methods (Physiotherapy)**372 (10) Research Methods (Physiotherapy) (1L, 3P)**

Epidemiology principles; introduction to research; principles of research; methodology, sampling, measuring, organising the data, biostatistics.

Home department: Physiotherapy

472 (10) Research Methods (Physiotherapy) (1L, 2P)

Principles of proven practice; the development of a basic research protocol; the practical execution of a basic research project and the reporting of findings.

Home department: Physiotherapy

11265 Research Project**771 (30) Research Project**

Research methods.

Home department: Sport Science

54895 Research Project**773 (30) Research Project**

Project.

Home department: Sport Science

55867 Research Project**771 (30) Research Project**

An appropriate research project is required in the form of a literature review, case study or clinical research project. This will be done in conjunction with a project leader.

Home department: Obstetrics and Gynaecology

882 (90) Research Project

The first year includes the planning of a research project and the submission of a protocol for ethics approval. The implementation of a research project and submission of a thesis, or preferably one article for publication in a peer-reviewed journal, according to the format specified in the study guide, are concluded in the second year of study.

Home department: Human Nutrition

50962 Research Report**472 (14) Research Report**

Students are required to complete a research project in Speech-Language Therapy. A research report must be submitted at the beginning of the second semester and the research presented to an audience of speech-language therapists and members of the public.

Home department: Speech-Language and Hearing Therapy

13504 Research Thesis**872 (180) Research Thesis**

Includes the planning of a research project and the submission of a protocol for ethics approval. The implementation of a research project and the submission of a thesis, or preferably one article for publication in a peer-reviewed journal, according to the format specified in the study guide, are concluded at the end of the study period.

Home department: Human Nutrition

875 (90) Research Thesis

Includes the planning of a research project and the submission of a protocol for ethics approval. The implementation of a research project and the submission of a thesis, or preferably one article for publication in a peer-reviewed journal, according to the format specified in the study guide, are concluded at the end of the study period.

Home department: Human Nutrition

52329 Respiratory System**271 (30) Respiratory System (7 weeks)**

Embryology and development of the airways and lung; respiratory characteristics of the thoracic wall and the thoracic and pleural cavities; upper and lower airways: structure; lungs: structure and relationship to respiratory mechanics and ventilation; ventilation/perfusion relationships in the lungs; gas exchange and oxygen transport; oxygen carrying capacity; interaction of the cardiac and respiratory systems; control of breathing; role of the lungs in acid-base balance; functional anatomy, physiology, microbiology, pathology and pharmacology; evaluation of the respiratory system; infections of the upper respiratory tract; infections of the lower respiratory tract; obstructive airways disease; pleural diseases; neoplastic disease of the lung; head and neck tumours; chest trauma and post-surgical complications; neonatal lung disease; prevention and rehabilitation of lung disease; environmental lung disease and interstitial lung disease; respiratory failure; integrated approach to general respiratory symptoms.

Home department: Medicine and Health Sciences Central

11522 Resuscitation and Critical Care**871 (15) Resuscitation and Critical Care**

This semester module is a core module for the MPhil (Emergency Medicine) programme with the following objectives: to develop a rational evidence-based approach to clinical problems in resuscitation and critical care, and to develop further knowledge and skills for managing complex emergencies. The module entails clinical-problem-oriented tutorials, reviews of medical literature and protocol development, as well as skills training in the simulation laboratory and small groups.

Assessments of assignments and skills sessions contribute 60% of the final mark, and the final written and oral assessments 40%.

Home department: Emergency Medicine

XXXXX Risk and Financial Management**XXX (30) Risk and Financial Management**

This module aims to equip students with the required knowledge and skills to enable them to manage risks in any health care organization or hospital establishment. After completion of this module, students will be able to complete a risk assessment in a health establishment to identify risks that may compromise healthcare delivery, and to contextualize these risks, identify root causes and potential consequences, and strategize by completing a mitigation plan for such risks. Students will understand the financial liability of the health service manager and the budgetary responsibilities of the nurse manager, debate financing of the healthcare industry, and explain costs and cost containment measures in the healthcare sector.

Home department: Nursing and Midwifery

19003 Sociology**114 (12) Introduction to Sociology and Social Anthropology (3L)**

Introduction to conceptual and theoretical themes in sociology and social anthropology, including discussions on social inequality, social stratification, culture, identity (including gender, "race" and ethnicity), socialisation, and age in the context of a life course perspective. Discussion themes are grounded in social theory and methodological approaches in the social sciences.

Home department: Sociology and Social Anthropology

144 (12) Social issues in South Africa (3L)

A selection of social issues that reflect the complexity of contemporary South African society. Examples of themes include: social change; poverty and development; social institutions such as the family, education and religion; crime and security; health, the body and HIV/AIDS; political and economic relationships.

Home department: Sociology and Social Anthropology

XXXXX Specialist Critical Care Nursing Practice**XXX (45) Specialist Critical Care Nursing Practice**

The purpose of this module is to equip students with knowledge and clinical skills to enable them to function as competent critical care nursing practitioners. They will be able to manage critically ill patients and the critical care environment with insight, confidence and compassion. This foundation will provide students with clinically appropriate patient care skills that can be individualised to meet each patient's unique health needs. Furthermore, this module will enable students to articulate the unique contribution of specialist nursing practice to the profession of nursing and health care in South Africa. The themes of what it means to be a specialist nurse and the broader interactive context within which a specialist nurse functions will be covered.

Home department: Nursing and Midwifery

XXXXX Specialist Emergency Nursing Practice**XXX (45) Specialist Emergency Nursing Practice**

The purpose of this module is to equip the students with the necessary knowledge and skills needed to perform safe and effective emergency nursing procedures. It will provide students with the necessary foundational skills needed for appropriate emergency nursing skills that can be tailored to patient-specific populations.

Home department: Nursing and Midwifery

XXXXX Specialist Mental Health Nursing Practice**XXX (48) Specialist Mental Health Nursing Practice**

The content of this module is aligned with the South African Nursing Council's requirements for mental health nurse specialists. The module focuses on developing in-depth knowledge and therapeutic skills required for a nursing diagnosis and treatment, as well as personalised health care for patients and families exposed to, or suffering or recovering from, mental disorders. It aims to develop students' ability to think critically, analytically, creatively and reflectively as mental health clinical specialists.

Home department: Nursing and Midwifery

XXXXX Specialist Midwifery Practice**XXX (40) Specialist Midwifery Practice**

The content of this module is aligned with the South African Nursing Council's requirements for a midwife specialist. The focus of the module is to enable students to demonstrate the integration of knowledge and clinical skills to provide quality, culturally sensitive and evidence-based maternal and neonatal care on all levels. Students will be able to critically identify, diagnose, plan, implement and evaluate high-risk maternal and neonatal care within the preconceptual, antenatal, intranatal and postnatal periods. This knowledge and skills will enable students to provide comprehensive, person- and family-centred maternal and neonatal care by acting as consultants within multidisciplinary teams and the community.

Home department: Nursing and Midwifery

13046 Specialist Paediatrics**871 (240) Specialist Paediatrics**

Rotations through general paediatrics, ambulatory paediatrics, neonatology, paediatric intensive care, neonatal intensive care, cardiology, pulmonology, gastroenterology, neurology, neurodevelopmental paediatrics, nephrology, endocrinology, infectious diseases, haematology, oncology and allergy.

Home department: Paediatrics and Child Health

XXXXX Specialist Perioperative Practice**XXX (56) Specialist Perioperative Practice**

This module is intended to equip students to offer safe and effective peri-operative care by developing their clinical competence, and psychomotor and affective skills.

The implementation of specialist perioperative nursing care is based on the essential knowledge that students develop by approaching this module in conjunction with the core theoretical module. The application of theoretical knowledge in various concrete experiences in the operating room is evidenced in this module through various learning and assessment approaches such as case studies, problem solving and scenarios.

Home department: Nursing and Midwifery

XXXX Specialist Primary Care Practice**XXX (41) Specialist Primary Care Practice**

This module enables students to critically apply and demonstrate their knowledge, skills, values and ability to communicate, inclusive of multidisciplinary teamwork, to be able to successfully assess, diagnose, prescribe treatment and manage patients in the primary care setting. This is done according to the national guidelines, while making use of evidence-based practice and a person-centred approach.

Home department: Nursing and Midwifery

19267 Special Physics**111 (8) Physics for Health Sciences (2L, 1T)**

Structure of matter, kinematics, statics, dynamics, heat, temperature, wave motion and electricity.

Home department: Physics

46221 Speech Pathology**121 (12) Speech and Hearing Science (3L, 1T)**

Physiological and neurological basis of communication; role of breathing, phonation, resonance, articulation and suprasegmental characteristics in speech production; feedback mechanisms in speech-sound production; theories of speech production; theories of speech perception; speech perception in different populations. The anatomical division of the auditory system; the functional role of the parts of the auditory system; frequency, intensity and duration of sound. Basic physics of sound.

Home department: Speech-Language and Hearing Therapy

122 (12) Human Communication (3L, 1T)

Definitions of speech, language and communication; the components of language; different types of communication; definitions of phonation, respiration, resonance and articulation; principles of normal communication development; characteristics of normal communication development in children 0 to 3 years; attachment and the implication for development; development of early literacy and phonological awareness.

Home department: Speech-Language and Hearing Therapy

142 (6) Articulation and Phonological Disorders (3L, 1T)

Overview of the nature of articulation and phonological disorders; assessment and intervention of articulation and phonological disorders.

Home department: Speech-Language and Hearing Therapy

162 (12) Basic Audiometry (3L, 1T)

Role of the speech-language therapist in audiology services; pathologies of the ear; theoretical aspects of hearing evaluation; basic audiometric test battery (pure-tone audiometry, air and bone conduction, masking, speech threshold testing, immittance measurements of the middle ear); case history and interview; otoscopic examination and tuning fork tests; classification of hearing loss.

Identification audiometry; hearing screening of preschool and school-aged children and adults; the effect of noise on hearing.

Home department: Speech-Language and Hearing Therapy

211 (8) Framework for Professional Practice (3L, 1T)

Principles of biomedical ethics, namely beneficence, non-maleficence, justice and respect for autonomy (including the client-centred approach). Human rights. Approaches to decision making. Professional conduct and competence. Professional codes of ethics, including the SASLHA Code of Ethics and HPCSA ethical rules. The scope of practice of the speech-language therapist. The International Classification of Function, Disability and Health (ICF) of the WHO. Evidence-based health care.

Home department: Speech-Language and Hearing Therapy

222 (6) Craniofacial Disorders (3L, 1T)

Revision of embryology, anatomy and physiology of the oral, nasal and pharyngeal structures; cleft lip and/or palate; feeding, speech and resonance characteristics of infants and children with cleft lip and/or palate; intervention for the client and family by the multi-disciplinary team.

Home department: Speech-Language and Hearing Therapy

242 (6) Promotion of Normal Communication and Prevention of Disability (3L, 1T)

Health promotion and prevention; early identification of communication disorders, prevalence of disability; basic principles of epidemiology; health policy; primary health care; the role of speech-language therapists within the context of primary healthcare; healthcare models; philosophical background. (The module may be presented according to a service-learning approach.)

Home department: Speech-Language and Hearing Therapy

251 (6) Language Disorders in Specific Populations (3L, 1T)

Intervention of speech and language disorders in specific populations.

Home department: Speech-Language and Hearing Therapy

252 (6) Voice Disorders (3L, 1T)

Anatomy and physiology of the phonatory mechanism; the nature and extent of voice disorders; intervention for voice disorders; introduction to tracheo-oesophageal voice restoration; multidisciplinary service delivery.

Home department: Speech-Language and Hearing Therapy

278 (24) Language Impairment (3L, 1T)

Introduction and background to children with primary language impairment. Language assessment and intervention for children from 0 to 3 years, and 4 to 6 years. Assessment and intervention for school aged children with language impairment.

Home department: Speech-Language and Hearing Therapy

331 (12) Intervention for Persons with Hearing Loss (3L, 1T)

Introduction and background to persons with hearing loss; the role of the speech-language therapist; models and frameworks of aural rehabilitation; rehabilitation technology; speech acoustics; speech perception and hearing loss; approaches to speech perception development of children with hearing loss; speech, language and communication development of children with hearing loss; assessment of speech, language and communication skills of children with hearing loss; therapy approaches for development of speech, language and communication skills in children with hearing loss; early intervention in the population with hearing loss (underlying principles of successful parent-guidance programmes, parent support through counselling, early communication assessment); educational needs of and challenges for learners with hearing loss.

Home department: Speech-Language and Hearing Therapy

332 (12) Fluency Disorders (3L, 1T)

Definition of fluency and normal disfluency; nature and extent of fluency disorders; approaches to intervention for fluency disorders in children and adults.

Home department: Speech-Language and Hearing Therapy

364 (10) Introduction to Research as Professional Function (3L, 1S)

Research as process and action; various research paradigms; inductive and deductive reasoning; identification of a research problem; formulation of the research question; defining and operationalising of concepts; measurement in research and writing a research proposal.

Home department: Speech-Language and Hearing Therapy

378 (24) Neurogenic Communication Disorders (3L, 1T)

Aetiology of congenital and acquired neurogenic communication disorders; classification of neurogenic communication disorders; definition and communication characteristics of aphasia, motor-speech disorders, traumatic brain injury, right hemisphere damage and dementia; specific approaches to the assessment of neurogenic communication disorders; principles of and approaches to the treatment of neurogenic communication disorders associated with aphasia, motor-speech disorders, traumatic brain injury, right hemisphere damage and dementia; family-centred and interdisciplinary team approach to intervention.

Home department: Speech-Language and Hearing Therapy

411 (6) Augmentative and Alternative Communication (AAC) (3L, 1T)

Introduction to AAC, symbol systems, principles of intervention and basic technology in AAC; AAC interventions for individuals with developmental and acquired disabilities; family-centred interventions; multidisciplinary interventions.

Home department: Speech-Language and Hearing Therapy

413 (12) Dysphagia (3L, 1T)

Dysphagia as symptom; anatomy, physiology and neurology of swallowing; development of feeding and swallowing; clinical and instrumental assessment of swallowing; approaches to intervention for neurological, mechanical and other disorders of swallowing; multidisciplinary collaboration.

Home department: Speech-Language and Hearing Therapy

478 (24) Advanced Seminars in Speech-Language and Hearing Therapy (3L, 1T)

- New theories and research in speech-language therapy.
- Professional ethics and law.
- Secondary professional functions, e.g. the speech-language therapist as a consultant in the public, non-governmental and private sectors; medico-legal practice in speech-language therapy; education and training of other professionals; management functions: planning, organising, implementing and monitoring; resource management: personnel, finances, technical, equipment.
- Advanced theories and research in speech-language therapy; application within the South African context, especially in early communication intervention (ECI); head and neck cancer; voice therapy.
- Technological developments in intervention and rehabilitation.
- Concepts, policies and legislation related to disability studies, including the social, medical and biopsychosocial models of disability.

Home department: Speech-Language and Hearing Therapy

61387 Sport for Persons with Disabilities**772 (12) Sport for Persons with Disabilities**

Sport and physical activity for persons with disabilities.

Home department: Sport Science

42935 Sport Psychology**712 (12) Sport Psychology**

Sport psychology.

Home department: Sport Science

54607 Sport Science**112 (8) Applied Anatomy (2L, 1P)**

Anatomical and movement terminology; structure and function of the main tissue types of the human body, structure and function of the mobility unit of the human body and support systems.

Home department: Sport Science

142 (8) Sport Psychology (2L)

Participation motivation; achievement motivation; personality and physical activity; anxiety and motor achievement; attention in sport; aggression in sport; team cohesiveness; spectators in sport; exercise psychology; exercise adherence; psychology of injuries; psychometrics.

Home department: Sport Science

184 (12) The Sport Experience (3L, 1P)

Demonstration of, strategies for and insight into the enhancement of selected team sports and individual sports played by different cultural groups in Southern Africa.

Flexible assessment

Home department: Sport Science

222 (8) Motor Learning (2L)

Perceptual-motor development and behaviour; perceptual-motor learning taking the learning environment into consideration; the role of perception and decision-making in sport performance.

Home department: Sport Science

232 (8) Exercise Physiology (2L)

Aerobic and anaerobic metabolism during exercise; acute cardiovascular, respiratory and muscle responses to endurance and resistance training; effect of strength and endurance training on physiological systems and the physiological mechanisms of training.

For the programme BA (Sport Science): P Physiology 114, 144

Home department: Sport Science

252 (8) Sport Physiology (2L)

Physiological factors that influence sport performance; physiological training principles and adaptations; training for special populations; nutrition and sport performance; training at altitude; legal and illegal ergogenic aids in sport.

For the programme BA (Sport Science): P Physiology 114, 144

Home department: Sport Science

262 (8) Applied Biomechanics (2L, 1P)

Kinematic and kinetic concepts for the analysis of human movement; the biomechanics of human upper and lower body limbs and spinal column; linear and angular kinematics and kinetics of human movement; equilibrium and human movement; human movement in a fluid medium; applications of biomechanical principles in qualitative analysis of sport skills and exercise.

P Kinesiology 112 or 162

Home department: Sport Science

312 (6) Sports Injuries (2L)

Classification of injuries, causes of strain injuries, heat injuries, running injuries, strain injuries in cycling, dance injuries, muscular and tendon injuries.

Home department: Sport Science

322 (6) Peak Performance (2L)

Programme design using principles of classification and their application to elite sporting performance.

Home department: Sport Science

332 (6) Tests and Measurement (2L)

Principles of valid and reliable assessment of fitness and sporting performance by means of statistical techniques and general assessment strategies.

Home department: Sport Science

342 (6) Sports Psychology and Sociology (2L)

Relationship between sport and social institutions; the sport credo; social values and sport; use of specific psychological skills to enhance sporting achievement; psychometrics.

Home department: Sport Science

352 (6) Sport Ethics (2L)

The philosophical context of physical activities; social and cultural trends relating to physical activities in South Africa; heterogeneous groups and physical activities; moral conduct in sport.

Home department: Sport Science

362 (6) Sport History (2L)

The origin of physical activities leading to modern sport and recreation; course of sport in ancient times; origin of the modern types of sport; South Africa and the Olympic Games; South Africa's isolation from the sporting world; sport in Africa; philosophies that impinge on physical education.

Home department: Sport Science

382 (6) Professional Applications (2L, 2P)

Application of education and programme design; skills training and fitness development; alternative approaches to learning in physical activities; educational and career opportunities.

Flexible assessment.

Home department: Sport Science

392 (6) Sports Performance (4P)

Familiarisation with motor and physiological research strategies; use of anatomical and biomechanical principles to analyse movement patterns and sporting abilities; the use of scientific principles; data collection.

Home department: Sport Science

61409 Statistics for Sport Science and Exercise Science**772 (12) Statistics**

Statistics.

Home department: Sport Science

13083 Strategy, Marketing and Communication**775 (10) Strategy, Marketing and Communication**

Students learn about the concepts and approaches of developing and implementing strategy, applied to the local and global health care context. They are also taught the principles of marketing analysis and how marketing is an essential element of any business's strategic planning. Marketing concepts and communication techniques are applied to the health care context.

Home department: Health Systems and Public Health

10980 Surgical Principles**872 (90) Surgical Principles**

General principles of Surgery and principles of the surgical specialities

Must be completed within 42 months of first registration.

Home department: Surgery

14367 Surgical/Trauma Infections**775 (15) Surgical/Trauma Infections**

Students will study postoperative infections and other common hospital-acquired infections, posttraumatic osteomyelitis, severe skin and soft tissue infections, intra-abdominal infections, bite wounds and burns-related infections. Transversal themes of infection prevention and control, antimicrobial stewardship, reproductive health, infection-related imaging and basic biology and laboratory diagnosis form an integral part of this module.

Home department: Infectious Diseases

XXXXX System Abnormalities: Critical Care Nursing**XXX (23) System Abnormalities: Critical Care Nursing**

The aim of this module is to assist students in developing attitudes, knowledge and skills related to specific patient disorders and aspects of critical care nursing. This will facilitate their functioning as competent critical care nursing practitioners, as both theoretical and clinical parts of critical care nursing are integrated. This foundation will provide students with clinically appropriate holistic patient care skills that can be individualised to meet each patient's unique health needs.

Home department: Nursing and Midwifery

XXXXX System Abnormalities: Emergency Nursing**XXX (23) System Abnormalities: Emergency Nursing**

The aim of this module is to assist the student in developing knowledge, skills and attitudes concerning specific patient disorders and aspects of emergency nursing. The integrated competence will facilitate the student's functioning as a competent emergency nursing practitioner by integrating the theoretical and clinical aspects of emergency nursing. This foundation will provide the student with clinically appropriate holistic patient care skills that can be individualised to meet each patient's unique healthcare needs.

Home department: Nursing and Midwifery

XXXXX Teaching and Learning Strategies**XXX (28) Teaching and Learning Strategies**

This module covers the science and art of teaching in a changing nursing education environment, including practices associated with a student-centred approach, outcomes-based education, and technology-mediated learning. It further explores leadership, quality matters and strategies to increase student learning success.

Home department: Nursing and Midwifery

11087 Theoretical Medical Physiology**771 (60) Theoretical Medical Physiology**

Seminars on capita selecta, research-article evaluations, journal tutorials and brain-teaser projects.

Home department: Medical Physiology

11459 Theory of Medical Microbiology**776 (60) Theory of Medical Microbiology**

This module provides a comprehensive understanding of the diagnosis of bacterial infections by phenotypic and molecular techniques. Specific technical skills relevant to the work done in a medical microbiology laboratory are also learnt.

Home department: Medical Microbiology

11129 Theory of Medical Virology**771 (60) Theory of Medical Virology**

Tissue culture and isolation: cell culture techniques, direct immunofluorescence. Serology: ELISA method. Molecular virology: DNA isolation, PCR sequence determination. Cellular immunology: PBMC isolation; cellular scanning (including FACS analysis).

Home department: Medical Virology

13549 Therapeutic Nutrition**812 (45) Therapeutic Nutrition**

- Any combination of three available elective study units may be chosen for the completion of this module: paediatric nutrition (basic and advanced); diabetes mellitus; nutrition therapy: enteral and parenteral (basic and advanced); gastrointestinal disorders (advanced); management of food allergies; nutrition and infectious diseases (HIV/AIDS and TB); oncology nutrition; sports nutrition.
- Advanced modules may only be selected if corresponding basic modules have been selected and completed.
- A minimum of three students per topic is required for the topic to be available.

Home Department: Human Nutrition

50849 Therapeutic Nutrition**244 (10) Therapeutic Nutrition (2L, 2P)**

Interpretation of biochemical measurements and haematology, and therapeutic adaptations of the diet. Insight into the medical background to and treatment of diseases; medical documentation; applied evaluation of nutritional status for specific disease conditions; knowledge and understanding of the role of nutrition in the aetiology and treatment of nutrition-related diseases/conditions; implement the theoretical concepts in practice; case studies of patients with a variety of diseases.

Practicals: Evaluation of nutritional status; planning of nutritional support of the relevant conditions.

Home department: Human Nutrition

378 (35) Therapeutic Nutrition (4L, 5P)

Insight into the medical background to and treatment of diseases; medical documentation; evaluation of nutritional status. Knowledge and understanding of the role of nutrition in the aetiology and treatment of nutrition-related diseases/conditions, and the practical implementation of a nutrition plan; nutritional support (enteral and parenteral nutrition); attendance of and participation in ward rounds to implement the theoretical concepts in practice; case studies of patients with a variety of diseases. Nutrigenomics. Paediatric nutrition.

Practicals: Evaluation of nutritional status; planning and implementation of nutritional support and follow-up of patients' treatment; presentation of case studies during nutrition ward rounds.

Home department: Human Nutrition

478 (58) Therapeutic Nutrition (10P)

Applying the nutritional and behavioural sciences, including the study of food, to provide patients with total nutritional care in the form of nutrition counselling and dietary prescription. The aim is for students to develop skills in the four basic components of clinical dietetics – needs assessment and the planning, implementation and evaluation of nutritional care – as related to a variety of diseases. (Case studies are done, with presentation of patients at ward rounds; the same concepts are put into practice at outpatient clinics.) Participation in nutrition and medical ward rounds. Taking responsibility, under supervision, for the nutritional care of patients in selected wards. Planning both enteral and parenteral nutrition protocols. Managing patient statistics.

Utilising the computer in therapeutic nutrition.

Exposure to and involvement with the clinical nutrition component of service rendering at community-based platforms in Ukwanda.

Home department: Human Nutrition

56367 Thesis**872 (90) Thesis**

During the second year, the student shall complete a research project and submit a satisfactory thesis based thereon. The research project must be relevant to the discipline of Speech Pathology, and the nature and extent of the project will be determined by the head of the Division.

Home department: Speech-Language and Hearing Therapy

873 (90) Thesis

During the second year, the student shall complete a research project and submit a satisfactory thesis based thereon. The research project must be relevant to the discipline of Speech Pathology, and the nature and extent of the project will be determined by the head of the Division.

Home department: Speech-Language and Hearing Therapy

13066 Thesis (Emergency Medicine)**872 (90) Thesis (Emergency Medicine)**

This is a core module for the MPhil (Emergency Medicine) programme with the objective to independently design a research project, obtain ethical approval, obtain funding, carry out the project and present the results and conclusions in a scientific format. This is the thesis component for the master's degree and the minimum duration is one year.

The research and presentation of the master's thesis for assessment by internal and external examiners contribute 100% of the final mark.

Home department: Emergency Medicine

13053 Thesis (Physio – OMT)**894 (90) Thesis**

Principles of research methodology. Writing a research proposal and obtaining ethical approval.

Planning, performing and analysis of and reporting on a research project.

Home department: Physiotherapy

52442 The Skin**471 (10) The Skin (2 weeks)**

Function of the skin; terminology/approach; epidemiology of skin disease; socio-psychological aspects of dermatology; keratin abnormalities; psoriasiform reactions; pannicular reactions; dermatitis family of reaction patterns; photodermatology as a reaction pattern; the effect of physical factors on the skin; lichenoid reactions; erythrodermal reactions; reactive erythema and vasculitis as a reaction pattern; vascular and lymphatic pathology; adnexal pathology; hypo- and hyperpigmentation; bullous lesions; skin tumours; genodermatosis; infections of the skin; dermatoses from parasites and infections; diabetes and the skin; cutaneous manifestations of pregnancy; paediatric dermatology; internal malignancy of the skin; auto immune diseases; drug reactions; dermatotherapy; HIV and the skin.

Home department: Medicine and Health Sciences Central

11529 Ultrasound in Emergency Medicine**871 (15) Ultrasound in Emergency Medicine**

This semester module is an elective for the MPhil (Emergency Medicine) programme with the following objectives: to teach the principles and theory behind ultrasound in the emergency care environment, to develop emergency ultrasound skills and to understand how to set up and manage an ultrasound system in an emergency environment. The module entails four full contact days with a demonstration of practical skills.

The practical assessment contributes 40% of the final mark, the theory assessment (online) 30% and the final assessment 30%.

Home department: Emergency Medicine

52337 Urogenital System**271 (30) Urogenital System (7 weeks)**

Kidney/urological themes: Embryology of the urogenital system; the kidney: structure and function; global renal function: glomerular, tubular and collecting duct function; renal blood flow and glomerular filtration; regulation of normal salt and water balance; fluid compartments: composition/changes and quantification; role of the kidney in acid-base balance; the urinary tracts: structure and function in urine transport; bladder: structure and function. Genital/ reproductive themes: structure and function of the male genital system; structure and function of the female reproductive system. Renal failure; haematuria; proteinuria; bladder: urinary retention and incontinence; obstruction of the upper urinary tracts; infections of the urinary tract; urinary tract stones; neoplasms of the urinary tract; genital system: scrotal swelling; penile lesions; urogenital trauma; pelvic pain; vaginal discharge and genital ulcers; genital prolapse; tumours of the female genital tract.

Home department: Medicine and Health Sciences Central

21687 Xhosa**178 (24) Introduction to Xhosa Language and Culture (3L, 1T)**

Classification of the African languages Language policy and language planning for the African languages; The communication skills of speaking, listening comprehension, reading and writing in socio-cultural contexts; Cultural perspectives and language-related cultural conventions relevant to basic communication in Xhosa; Introduction to the linguistics of Xhosa; Introduction to communication in authentic prescribed texts from the printed media (newspaper, magazine); Introduction to the literature of Xhosa.

Notes

1. Students who have passed Xhosa or Zulu First Language for the matriculation examination or an equivalent examination may not take Xhosa 178 for degree purposes but can take Xhosa 188.
2. Students of Speech-Language and Hearing Therapy I in the Faculty of Medicine and Health Sciences are placed in either Xhosa 178 or Afrikaans Language Acquisition 178 or 188 according to a language proficiency test.
3. No previous knowledge of Xhosa is required.

Home department: African Languages

Research and Service Bodies

In this chapter the research and service bodies that reside in the Faculty of Medicine and Health Sciences are presented.

1. African Cancer Institute

History

The African Cancer Institute (ACI) was established in 2013 at the Faculty of Medicine and Health Sciences (FMHS) to consolidate and coordinate the Faculty's cancer and cancer-related research activities.

Objectives

The FMHS intends to develop a critical mass of scientists, clinicians, postgraduate students and research fellows so as to mobilise the cancer research agenda for South Africa and the region at large. The aim is to strengthen cancer and cancer-related research, training and service activities in these regions by developing and implementing a programme of interdisciplinary and inter-professional research focused on improving preventive, therapeutic and rehabilitative strategies.

The ACI's vision is to reduce the cancer burden and improve subsequent health outcomes in Africa.

The ACI's mission is to become an internationally recognised comprehensive cancer research centre that conducts and coordinates multidisciplinary cancer and cancer-related health research relevant to the African continent, and to provide a platform for scholarly growth and knowledge production in pursuit of high-quality evidence-based cancer care.

The goals of the ACI are to:

- Promote, coordinate and facilitate cancer and cancer-related research.
- Strengthen basic, clinical, translational and interdisciplinary research.
- Help to develop learner-centric educational and training programmes with curricula related to cancer and public-health research.
- Become a centre of excellence for cancer research in South Africa and the African continent.

Contact details

For more information, contact Prof Vikash Sewram at vsewram@sun.ac.za or 021 927 7001.

2. Central Analytical Facility

History

The Central Analytical Facility (CAF) at Stellenbosch University accommodates a substantial collection of large, cutting-edge and multi-user analytical equipment.

Objectives

CAF is a very important research support structure aimed at managing this equipment sustainably, cost-effectively and in the interests of the University. CAF facilities are located on both Stellenbosch and Tygerberg campuses of the University, and an in-house courier service transports samples between researchers and the various CAF laboratories.

A staff scientist manages each unit and guides researchers in selecting from the analytical offering and designing projects that help them take full advantage of the analytical equipment available.

Most of the equipment managed by CAF was acquired via National Equipment Programme (NEP) grants. Invitations for new grant applications are usually announced every year and institutions may submit up to five applications each. CAF units generally collaborate with leading researchers in drafting NEP applications. The CAF Director (gs@sun.ac.za) welcomes suggestions for new NEP grant applications.

Contact details

For more information, visit us at www.sun.ac.za/saf or contact Prof Gary Stevens at gs@sun.ac.za or 021 808 3127.

3. Centre for Cardiometabolic Research in Africa (CARMA)

History

Cases of non-communicable diseases such as diabetes and cardiovascular diseases (CVDs), which affect the heart and blood vessels, are increasing rapidly in Africa. Poor lifestyle choices are usually to blame. The number of people with these conditions that weaken the sufferer will rise dramatically over the next decades, which will increase the overall burden of disease. Also, people with HIV/Aids are more prone to diabetes and CVD. This will raise morbidity (how frequently the diseases occur) and mortality (how frequently the diseases cause death), especially in developing countries. The result will be a double burden of disease.

The Centre for Cardiometabolic Research in Africa (CARMA) was established in 2019. The goal was to apply research skills and strengths at Stellenbosch University (SU) and beyond effectively in order to tackle this major disease burden better. CARMA forms part of the Division of Medical Physiology at the Faculty of Medicine and Health Sciences.

Vision

The eradication of cardiometabolic diseases (which affect the heart, blood vessels and metabolism) in Africa

Mission

To become an internationally recognised centre for research and training regarding cardiometabolism in Africa by making innovative contributions to cardiometabolic research

Objectives

CARMA's core activities are research and innovation, teaching and training, collaboration and capacity building, consultancy, commercialisation and social impact. CARMA strives to achieve the following:

- Consolidate and maximise existing strengths in the field of cardiometabolic research, particularly within SU but also with outside partners.
- Inform stakeholders and the community of research results by means of publications, research papers, seminars, short courses and popular media platforms.
- Provide cardiometabolic teaching and training through postgraduate and PhD programmes in several faculties and departments at SU. Include partners from other national and international institutions.
- Develop excellence in cardiometabolic research by means of student research projects, cardiometabolic research workshops, congresses, training events, publications and any other appropriate means.
- Offer consultancy services to departments and groups within and outside SU, subject to CARMA's capacity and the framework of SU policy.
- Offer SU staff and students the opportunity to participate in CARMA's activities and to develop innovations.
- Generate and protect intellectual property and create product spin-off companies, adhering to SU policy on the exploitation of intellectual property.
- Provide cardiometabolic expertise to industry and other organisations.

Contact details

For more information, contact Prof Faadiel Essop (mfessop@sun.ac.za) or Prof Hans Strijdom (jgstr@sun.ac.za).

4. Centre for Disability and Rehabilitation Studies*History*

The Centre for Disability and Rehabilitation Studies is a joint undertaking of the University and the Provincial Government of the Western Cape since 1998. The Centre is accommodated in the buildings of the Faculty of Medicine and Health Sciences (FMHS) on the Tygerberg Campus.

Status

The Centre is a Type 1 Centre presently located in the Department of Global Health of the FMHS. It is uniquely positioned as an interdisciplinary network of researchers from across various disciplines offering comprehensive interprofessional and intersectoral disability- and rehabilitation-related knowledge translation and management, education and engagement in training programmes, and research and research development for all relevant professionals. The Centre strongly advocates an understanding of disability and rehabilitation as a transformation and social justice issue.

Contact details

For more information, visit us at www.sun.ac.za/CDRS or contact Prof Gubela Mji at gumji@sun.ac.za or Ms Anita Palmer at apalmer@sun.ac.za or 021 938 9090/9936.

5. Centre for Evidence-based Health Care (CEBHC)*History*

The Centre for Evidence-based Health Care (CEBHC) is a coordinating and directive institution for research and training of the Faculty of Medicine and Health Sciences of Stellenbosch University in the field of evidence-based health care (EBHC).

Objectives

The core activities of the CEBHC are research, teaching and knowledge translation.

The CEBHC aims to:

- address policy and practice needs in South Africa and Africa, and enhance the use of best available evidence.
- make timely contributions to addressing knowledge gaps in health care by carrying out and promoting systematic reviews that are Africa-relevant and rigorous.
- enhance knowledge, skills and practices of key stakeholders in evidence-informed health care.
- cultivate diverse, strong and effective partnerships.
- foster a people-centred environment that is collaborative, innovative and intellectually stimulating and sustainable.

The CEBHC focuses on conducting current, high-quality, Africa-relevant systematic reviews and meta-analysis, other synthesized research, research on the barriers to and facilitators of the uptake and application of best available research evidence in healthcare policy and practice, as well as on assessing interventions aimed at enhancing evidence-informed decision-making.

The CEBHC is responsible for a wide spectrum of EBHC-related activities, including:

- integrating EBHC teaching as a core competency in the education of doctors, nurses and other health professionals trained at the University, at all levels of health sciences education.
- training and technical support to Stellenbosch University postgraduate students at the master's and doctorate level to conduct robust systematic reviews, either as a research project for a master's degree or as a component for a doctoral degree.
- training lecturers to teach EBHC and conduct research in EBHC, especially locally and in Africa.
- providing support to the MSc (Clinical Epidemiology) and other degree and diploma programmes at Stellenbosch University that incorporate EBHC as a focus.

The CEBHC promotes uptake and application of best available evidence in healthcare policy and practice decision-making by:

- Actively engaging with decision-makers, advocating for and building demand for synthesised evidence locally, in Africa and globally.
- Producing tailored evidence assessments that include accessing, appraising and interpreting results from systematic reviews to answer specific, Africa-relevant questions.
- Communicating research findings in the form of products for dissemination, such as evidence-based clinical guidelines and policy briefs, to a variety of targeted stakeholders including the public, health professionals, researchers, policy makers and healthcare managers, as well as to intermediaries of knowledge translation (e.g. media and guideline developers).

Contact details

For more information, visit us at www.sun.ac.za/cebhc or phone 021 938 9886.

6. Centre for Global Surgery

History

The Centre for Global Surgery (CGS), located within the Department of Global Health in the Faculty of Medicine and Health Sciences, was established in 2019 and envisions a world with equitable and timely access to quality surgical care for all.

Objectives

It aims to generate high-quality research, engage policy makers, and improve teaching and learning in order to promote equitable surgical care locally and internationally. CGS strives to become a hub for research excellence and train a new generation of global surgery leaders.

CGS activities focus on global surgery research, stakeholder engagement, and learning and teaching. CGS identifies strategies to improve the quality of surgical provision within a public health framework by incorporating safe and equitable surgical care into universal health coverage. CGS collaborates with key stakeholders to translate evidence-based research into new policies and programmes.

CGS uses community-centred approaches to better understand barriers to seeking surgical services. Furthermore, CGS is committed to improving care for marginalised groups, especially in low-resource and rural environments where surgical care is particularly inequitable.

Contact details

For more information, contact Prof K Chu at kchu@sun.ac.za or 021 938 9442 or visit us at <http://www.sun.ac.za/globalsurgery>.

7. Centre for Health Professions Education

History

The Centre for Health Professions Education (CHPE) was established in January 2006 in order to strengthen the Faculty of Medicine and Health Sciences' reputation of excellence in the field of teaching and research with its strong academic focus on the quality of teaching.

Objectives

The CHPE promotes excellence and scientific and evidence-based teaching in the health sciences on institutional and national level, as well as in the rest of Africa. The CHPE is committed to interdisciplinary teaching and learning, community-based teaching and the promotion of rural health, facilitating learning environments, the promotion of diversity, scientificity, an ethical approach to health care as well as lifelong learning.

Contact details

For more information, contact Prof Susan van Schalkwyk at marais5678@sun.ac.za, lhl@sun.ac.za or 021 938 9054, or visit us at the following website: <http://www.sun.ac.za/english/faculty/healthsciences/chpe/Pages/default.aspx>.

8. Centre for Infectious Diseases (CID)

History

The CID was established in 2016 as a multidisciplinary entity that researches the prevention and management of infections and infectious diseases, on a regional and national basis, in the South African community.

Objectives

The purpose is to provide a science-based service relating to the prevention, diagnosis and treatment of infectious diseases. The Centre will transfer its scientific knowledge and skills base through the provision of a wide range of formal (on undergraduate and postgraduate level) and informal teaching and training programmes.

The CID integrates the following disciplines as collaborative functional areas on a shared services and academic platform:

- the functional area of adult infectious diseases,
- the functional area of paediatric infectious diseases,
- the functional area of pathology of infectious diseases,
- the functional area of prevention and control of infection,
- public health aspects of the Infectious Diseases Unit at Tygerberg Hospital,
- social and ethical aspects of infectious diseases, and
- the molecular biology of infectious diseases, as a basic scientific support and development tool for the clinical sciences.

CID pursues the following objectives:

- **Research:** Enhancing the understanding of infections and infectious diseases in our communities in respect of their pathogenesis, epidemiology, prevention, treatment and care.
- **Teaching and training:** Providing a platform for formal undergraduate and postgraduate programmes in various aspects of infection and infectious diseases. The teaching and training platform will also serve as a launch pad for short and informal courses for health professionals.
- **Service:** Providing services in the areas of diagnosis, management and infection control and prevention.

Contact details

For more information, visit us at <http://www.sun.ac.za/english/faculty/healthsciences/cid/> or contact Prof Jean Nachega at jnachega@sun.ac.za or 021 938 9119.

9. Centre for Medical Ethics and Law (CMEL)

History

The Centre for Medical Ethics and Law in the Department of Medicine at the Faculty of Medicine and Health Sciences aims to focus on and enhance the teaching and practice of medical and research ethics. The Centre was established in 2011.

Objectives

The objective is to allow health science professionals to combine moral reflection with the demands of practice, both at undergraduate and at postgraduate level. Furthermore, the Centre strives to provide ethics support and resources to health care professionals so that they may maintain the highest standards of health care practice, and so that ethical deliberation by government, non-governmental organisations and the private sector regarding health care policy and practice may be enhanced. The core activities of the CMEL are teaching, research and service.

Teaching: The CMEL undertakes a wide spectrum of training, including:

- Integrating ethics knowledge and skills as a core competency in the undergraduate and postgraduate education of doctors and other health care professionals trained at SU.
- Training and supervising postgraduate students at master's and at doctoral level in various health science disciplines.
- Training research ethics committee members in Africa as part of the Advancing Research Ethics Training in Southern Africa (ARESA) programme to obtain a Postgraduate Diploma in Health Research Ethics.
- Training teaching staff to teach ethics in all disciplines, as well as in practice, via the monthly Ethics Discussion Group and Bioethics Seminars.
- Training researchers in Good Clinical Practice (GCP).
- Providing support for other programmes as well as related degree and diploma programmes that incorporate ethics as a focus area.

Research: The CMEL focuses on conducting high-quality empirical research that is both quantitative and qualitative in nature and that focuses on important questions in medical and research ethics. The Centre also undertakes supervision of postgraduate research ethics projects.

Service: The CMEL provides an ethics consultancy service to doctors in practice via its ethics hotline and via e-mail. An ethics consultancy service is also provided to Tygerberg Hospital via the Tygerberg Clinical Ethics Committee and ad hoc urgent consultations. Continuing professional development (CPD) activities are provided via CPD ethics talks and an online CPD programme linked to the book on ethics published by the Centre.

Contact details

For more information, contact Prof K Moodley at bioethics@sun.ac.za or 021 938 9600 or visit us at <http://www.sun.ac.za/english/faculty/healthsciences/cmcl/Pages/default.aspx>.

10. Centre for Research in Neurodegenerative Disease (CRND)*History*

The CRND was established in 2016 to promote research and education in the field of neurodegenerative disorders, both within the Faculty of Medicine and Health Sciences and at regional, national and international levels.

Objectives

By providing a platform for collaboration between clinicians and scientists, the CRND aims to further research into multiple aspects of neurodegenerative disorders, including clinical aspects, epidemiology, genetics, environmental risk factors and neuropathology. The CRND provides training in neurodegenerative disease research, while the clinical care of patients with neurodegenerative diseases in South Africa is another priority. The Centre collaborates with local and international institutions and associations involved in research and clinical care to build capacity, provide education and training, and promote national and international collaboration in the field of neurodegenerative disease research.

Contact details

For more information, visit us at <http://pdmnafrica.org>.

11. Desmond Tutu TB Centre*History*

The Desmond Tutu TB Centre is an academic research centre in the Department of Paediatrics and Child Health, Faculty of Medicine and Health Sciences. The Centre was established in 2003 and has its main offices on the Tygerberg campus, and satellite offices in various communities affected by TB and poor health.

Objectives

The Centre's mission is to improve the health of vulnerable groups by influencing policy, using new knowledge created by research that focuses on health-related factors – mainly TB and HIV. To this end the Centre works closely with the Department of Health and local communities. It provides training for academic and health services staff, builds capacity in the University and the Department of Health, provides services to communities and serves in an advisory capacity regarding TB and health.

Contact details

For more information, visit us at www.sun.ac.za/tb or contact Prof Nulda Beyers at dtcinfo@sun.ac.za or 021 938 9812.

12. DST/NRF Centre of Excellence for Biomedical TB Research (CBTBR)*History*

The CBTBR is one of six Centres of Excellence created through the National Research and Development Strategy of the South African government. The Department of Science and Technology (DST) implemented the centres under the guidance of the National Research Foundation (NRF) of South Africa. The CBTBR was established in July 2004 and signifies the government's commitment to finding solutions for one of the country's most threatening diseases.

The CBTBR comprises two internationally acclaimed TB research laboratories, namely the Division of Molecular Biology and Human Genetics of Stellenbosch University and the NHLS laboratory of the University of the Witwatersrand. By combining the skills and expertise of these two laboratories, the Centre of Excellence is focused on contributing towards local and global research efforts that are aimed at developing new tools for controlling tuberculosis and to use the research as a vehicle for training a new generation of high-quality biomedical research scientists.

Objectives

The research programme of the CBTBR spans a broad spectrum of topics, ranging from fundamental research aimed at better understanding the biology of the bacterium that enables it to spread rapidly within human populations, to the application of basic research findings in clinical TB research and management. Included in the latter is research aimed at the development of multidisciplinary approaches for understanding the epidemiology of the disease and the identification of novel bacterial and host markers that will shorten the time taken to develop new diagnostic tools.

Contact details

For more information, visit us at www.tuberculosis.org.za or contact Dr B Baker at brubaker@sun.ac.za or 021 938 9402.

13. Family Centre for Research with Ubuntu (FAM-CRU)

History

FAM-CRU began as the Children's Infectious Diseases Clinical Research Unit (KID-CRU) in January 2002. The Centre was established with external funding. Four funding applications that had succeeded in short succession between 2000 and 2002 paid for the infrastructure and staff needed to launch the Centre. KID-CRU opened officially in September 2003

At first the Centre focused on running clinical trials on HIV and tuberculosis (TB) co-infection in children and their mothers. Over time, its scope extended to other infectious diseases. In January 2013 KID-CRU's name changed to FAM-CRU, which would reflect that its work now included adults as well. That was thanks to a successful funding application to the National Institute of Allergy and Infectious Disease (NIAID).

Current sites

- Main Centre – in Ward J8, next to the Family Clinic for HIV (H8) at Tygerberg Academic Hospital
- Michael Mapongwana – modular clinic (from 2007)
- Kraaifontein Community Health Centre – modular clinic (from 2014)
- Worcester Provincial Hospital – modular clinic (from 2017)

Vision

A world where infectious diseases are easily managed and prevented within families

Mission

To improve the health of children and their families through research and innovation concerning infectious diseases

Core activities

Research: FAM-CRU's main focus is clinical studies. These include clinical trials of new treatment strategies for HIV and TB co-infection, pharmacokinetic studies (to understand how drugs work in patients) and cohort studies (which follow the same group of people over time) in an effort to understand the natural history of diseases. The Centre studies vaccines that prevent TB and other bacterial and viral infections, as well as therapies for treating these diseases.

Teaching and training: Research teams receive in-service teaching that is applicable to the studies that the Centre undertakes. They attend start-up meetings and are kept up to date with protocols. Regular updates include occupational classes on topics that are of general interest as well as topics of specific interest to the protocol team.

Social responsibility: FAM-CRU renders services in various ways, both at Tygerberg Hospital and in the community.

Transferring knowledge to policy and management: In this regard, FAM-CRU does the following:

- Transfers knowledge to the scientific community and to policy makers through publications and conference presentations.
- Makes knowledge available to the communities where it does research.
- Communicates knowledge through the media.
- Advocates for issues that concern TB and HIV.
- Participates in provincial, national and global guideline committees.

Contact details

Mr G Fourie at georgef@sun.ac.za or on 021 938 6382 or visit us at <http://www.sun.ac.za/kidcru/index.php>

14. Institute for Life Course Health Research (ILCHR)

History

The Institute for Life Course Health Research (ILCHR) is located within the Department of Global Health, Faculty of Medicine and Health Sciences (FMHS). The Institute is a transdisciplinary entity that conducts research into infant, child, adolescent, maternal and family well-being, health and development in low-resource communities. ILCHR works throughout South Africa, with our largest research teams based in Khayelitsha in the Western Cape and the OR Tambo District in the Eastern Cape. Moreover, the Institute implements, manages and evaluates projects across Africa and South Asia.

Objectives

The vision of the Institute is a society in which all children and families live in healthy environments and have access to evidence-based interventions, where required, which allow them to thrive and to be active and productive participants in their communities. The Institute works extensively with international agencies such as the World Health Organisation and UNICEF in order to foster health across the life course globally. As such, ILCHR aims to be a centre of excellence in child and adolescent health research, and provide a platform that links Stellenbosch University and the FMHS to the broader health promotion research community in South Africa and globally. The mission of the Institute is to generate and disseminate evidence to be used to improve the health, well-being and development of children and their families, together with local, national, and global partners.

Contact details

For more information, contact Prof Mark Tomlinson (markt@sun.ac.za) or Dr Sarah Skeen (skeen@sun.ac.za) at 021 938 9043.

15. Institute of Sport and Exercise Medicine (ISEM)

The Institute of Sport and Exercise Medicine aims to be a national and international centre of excellence, focused on the emerging medical specialty of Sport & Exercise Medicine. The institute is a coordinating and directive institution for research, training and service provision in the field of Sport & Exercise Medicine located within the Faculty of Medicine and Health Sciences (FMHS) of Stellenbosch University. Its mission includes research, teaching, training and community service, related to Sport and Exercise Medicine. The ISEM plays a facilitating role for the advancement of Sport and Exercise Medicine-related capabilities across faculties within the University. The institute resorts under the Division of Orthopaedics of the FMHS, but will promote and work on an interdisciplinary, interfaculty and interprofessional level. Through its programmes, the ISEM will assist South Africa and other countries to build capacity, to provide education and training and to promote national and international collaboration in the field of Sport and Exercise Medicine with learning and research institutions from other countries.

Vision

The vision of the Institute is to be a national and international academic centre of excellence in Africa, focused on Sport and Exercise Medicine.

Mission

The ISEM aims to contribute towards building the scientific, technological and intellectual capacity in the field of Sport and Exercise Medicine through research, teaching and direction of service provision.

Core Activities

The ISEM strives to engage fully in the core activities of research and development, teaching and training, service rendering and collaboration, with specific reference to:

- prevention, diagnosis, management and rehabilitation of exercise related injuries;
- medical conditions associated with participation in sport and exercise;
- prevention and rehabilitation of chronic lifestyle related diseases; and
- facilitate the translation of research findings into policy and practice, focused on improving preventive, therapeutic and rehabilitative strategies.

16. MRC Centre for TB Research

History

The Centre was established in the Faculty of Medicine and Health Sciences with the joint support of the MRC, Stellenbosch University and the CPA (now PAWC).

Objectives

The decision to establish the Centre was based on an urgent need to support and develop sophisticated South African molecular biological skills, as well as to meet the growing biotechnological demands of the country's research and industrial sectors. Molecular biology, including particularly the ability to manipulate genes (through the amplification, cloning, analysis and alteration of DNA fragments), has set biology and the life processes in a whole new perspective. It is of the utmost importance that these developments should be applied to achieve a better understanding and management of South African health problems.

The Centre is using these advanced and developing techniques to study infectious diseases (especially tuberculosis – looking at the infectious organisms and the host immune system), genetic diseases, especially heart diseases (so as to provide pre- and postnatal diagnosis or counselling), cancer (including familial cancers), and the human immune system.

Not only does the mandate of the Centre include research and postgraduate training, but the Centre also serves an important function as a reference centre for the development of skills in molecular biology in South Africa. Smaller research groups supported by the MRC at other South African universities can be strengthened by advice, training and logistical support from the Centre.

Contact details

For more information, contact Prof PD van Helden at pvh@sun.ac.za or 021 938 9401.

17. Respiratory Research Unit (RRU)

History

The Respiratory Research Unit (RRU) is situated within the Faculty of Medicine and Health Sciences at Stellenbosch University. Since its establishment in 1994, the RRU has maintained its status as an internationally competitive entity.

Objectives

The RRU's research includes lung cancer, chronic obstructive pulmonary disease (COPD), asthma, smoking cessation, interstitial lung diseases, pulmonary embolism, pulmonary infections such as community-acquired pneumonia (CAP), tuberculosis (TB) and nosocomial pneumonia. The RRU investigates pathogenetic mechanisms, new drug development, and applications for interventional and imaging techniques. The unit conducts international fellowship training and regularly accommodates visiting doctors from underdeveloped and developing countries for the purposes of training and gaining experience in respiratory medicine and investigator-driven research.

Contact details

For more information, contact Ms C Charters at cdchar@sun.ac.za or 021 938 9423, or visit us at www.sun.ac.za/english/faculty/healthsciences/medicine/respiratoryresearchunit.

18. SUNHEART*History*

SUNHEART was launched in 2014 as a platform to host the aspirations and channel the enthusiasm of the talented cardiologists and support staff of the Division of Cardiology, Stellenbosch University and Tygerberg Hospital. SUNHEART resides within the Stellenbosch Trust, a registered non-profit and public beneficiary organisation.

The Division answers to the University regarding the training and research it performs and to the national Department of Health regarding the service it delivers, but it answers to itself regarding the standards it sets.

Objectives

The Division provides advanced cardiac care for the people it serves to the best of its ability according to international standards. SUNHEART provides training to candidates from across the African continent and aspire to be the number one cardiology training and research centre in Africa. To achieve its goals and to continue functioning as a cardiology centre of excellence for valvular/pericardial disease, trans-radial interventions and advanced cardiac imaging, it has had to broaden its funding base beyond the limitations set by the University and the Department of Health in order to maintain and expand its infrastructure and expertise.

SUNHEART epitomises the bright vision of the Division as a leader among cardiology centres on the continent and provides a vehicle for its funding partners to support its vision.

SUNHEART has the following objectives:

- Promoting cardiology training in order to establish the required expertise to expand advanced cardiac service in South Africa and other African countries with poor access to cardiac care. This objective includes the establishment of sufficient training posts to meet the demand.
- Promoting research in cardiology relevant to the cardiac diseases affecting the people of the African continent.
- Creating the required infrastructure to expand cardiology services to previously disadvantaged communities.
- Providing cardiology services in previously disadvantaged communities.

SUNHEART aims to empower the Division of Cardiology of Stellenbosch University and Tygerberg Hospital to:

- Provide advanced health care, specifically cardiac health care, to the people of the Western Cape.
- Provide equal access to cardiac care for all people.
- Practice according to international standards.
- Train students from all spheres of health care to practice in South Africa.
- Train students from other African countries to uplift health care services in Africa.
- Become a centre of excellence for transradial angiography, cardiac imaging, valvular and pericardial disease.
- Continue with ethical research in the context of the South African health care environment.

Contact details

For more information, visit us at www.sun.ac.za/sunheart or contact Dr Alfonso Pecoraro at pecoraro@sun.ac.za or 021 938 4400.

19. Ukwanda Centre for Rural Health*History*

The Faculty of Medicine and Health Sciences at Stellenbosch University (SU) established the Ukwanda Centre for Rural Health in June 2001. With the support of Ukwanda, the first rural clinical school in South Africa was established in 2011 – for the Cape Winelands and Overberg region of the Western Cape. The school is based in Worcester. The SU Senate approved the constitution of the Ukwanda Centre for Rural Health in 2019, and it was incorporated into the Department of Global Health.

Objectives

The vision for Ukwanda is to be an exemplary champion for advancing rural health, both locally and globally.

Seeing that the Centre is affiliated to an academic institution (SU), Ukwanda focuses on improving rural health care by empowering students, health workers and communities for wellness. This is achieved by:

- providing training that aims to transform rural populations by teaching students at all levels to adapt to the requirements of the communities that they serve;
- bringing together communities, students and staff to motivate them by passion, care and the hope of responding to society's needs;
- undertaking an collaborating with partners in, research that is relevant and socially responsible;
- staying in close contact with the Faculty of Medicine and Health Sciences as well as the University in the broader sense to keep striving for fairness for rural communities; and
- being a resource and model of innovation for other similar institutions in Africa.

Ukwanda gives students and researchers the opportunity to participate in rural health care services and development through their work in Worcester and other rural areas. The chance to learn through service and to do research in partnership with communities is open to students in all the Faculty's programmes, as well as students from selected other courses at SU.

Contact details

For more information, visit Ukwanda's website at <http://blogs.sun.ac.za/ukwanda/>, follow us on Twitter @Ukwanda_Worc, find us on Facebook ukwandaruralclinicalschoo, or contact Ms Lindsay-Michelle Meyer at lindsaym@sun.ac.za or on 021 938 9873.

20. Unit on Risk and Resilience in Mental Disorders of the MRC

History

Disorders of the psyche are fast becoming one of the greatest contributors to the burden of health disorders in developing as well as developed countries. The Unit on Risk and Resilience in Mental Disorders of the South African Medical Research Council is a cross-university unit situated in the Department of Psychiatry at Stellenbosch University (SU) and in the Department of Psychiatry and Mental Health at the University of Cape Town (UCT). This unit builds on the legacy of the MRC's Unit on Anxiety and Stress Disorders, which was founded at SU in 1997. The new unit was launched officially on 1 April 2017 and is headed by Profs Dan Stein (UCT) and Christine Lochner (SU).

Objectives

Research at this Unit goes beyond anxiety and stress, embracing a number of conditions that are linked to, for example, compulsivity and impulsivity. Specific objectives are:

- to strengthen and grow existing research and multi-disciplinary collaborations in mental disorders and mental health with a view to improving health in South Africa and the region;
- to develop and expand new research programmes specifically focused on translational research and new collaborations addressing the major mental disorders in Africa;
- to provide a platform for the training and support of clinician-scientists who work in the field of mental disorders and mental health, and who include women and scientists from Africa; and
- to promote the implementation of research findings from the fields of psychiatry and mental health as regards policy and practice.

Research at the Unit covers a wide spectrum, from basic science (laboratory-based work) and clinical trials to using animal models, genetics and brain imaging studies, as well as a variety of relevant aspects of community psychology and culture. The Unit prioritises the practical implementation of these findings in the interest of the community, for example through its Mental Health Information Centre (www.mentalhealthsa.org.za), which includes a telephonic service with a turnaround time of 24 hours.

Contact details

For more information, visit the website at <http://www.samrc.ac.za/extramural-research-units/risk-resilience-mental-disorders> or contact Prof Lochner at cl2@sun.ac.za or 021 938 9179.

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