University Rules and Syllabuses

for

Degrees and Diplomas

offered in the

Faculty of Health Sciences

for the 2022 Academic Year

All correspondence should be addressed, as far as is possible, directly to the relevant person or school.

UNIVERSITY OF THE
WITWATERSRAND,
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POPI Disclaimer

The University collects and processes certain personal information about students which enables the University to meet its contractual obligations with its students. The University is committed to protecting the student's privacy and recognises that it needs to comply with statutory requirements in collecting, processing and distributing of personal information and in performing its obligations, the University will comply with the provisions of the relevant data protection legislation.

List of acronyms

Acronym	Definition
YOS	Year of study
PT	Part time
FT	Full time
CPD	Continuing Professional Development

WITS
UNIVERSITY

100 1922 2022

HIERARCHY OF ACADEMIC GOVERNANCE

ACTS create the powers and responsibilities of entities by law.

HIGHER EDUCATION ACT, ACT 101 OF 1997

STATUTES

define how and what the University does to give expression to the provisions of the Act, and further includes features that are particular to Wits, for example, not all universities have a role for the Convocation.

AMENDED STATUTE OF THE UNIVERSITY OF THE WITWATERSRAND, JOHANNESBURG (2018)

POLICIES define a plan of action determined by Council.

POLICIES OF THE UNIVERSITY

REGULATIONS are subordinate to Acts and they define orders and authoritative direction. **REGULATIONS** are a set of directions on how **RULES** should be put into effect.

RULES

are made by Council for all areas of operation other than academic matters. Senate approves academic **RULES**, which are endorsed by Council. A **RULE** defines the principle to which action or procedure conforms. **RULES** set out what may or may not be done within a particular area of administration. These Rules are reviewed and published in the University Calendar each year.

GENERAL RULES OF THE UNIVERSITY

PROCEDURES set out the practical steps necessary to realise the object or purpose of Rules and Regulations.

PROCEDURES

SENATE'S RULES FOR FACULTIES OF THE UNIVERSITY

Senate's rules for faculties of the university are subordinate to the General Rules. These Rules are reviewed and published in the University Calendar each year.

SENATE STANDING ORDERS OF THE UNIVERSITY

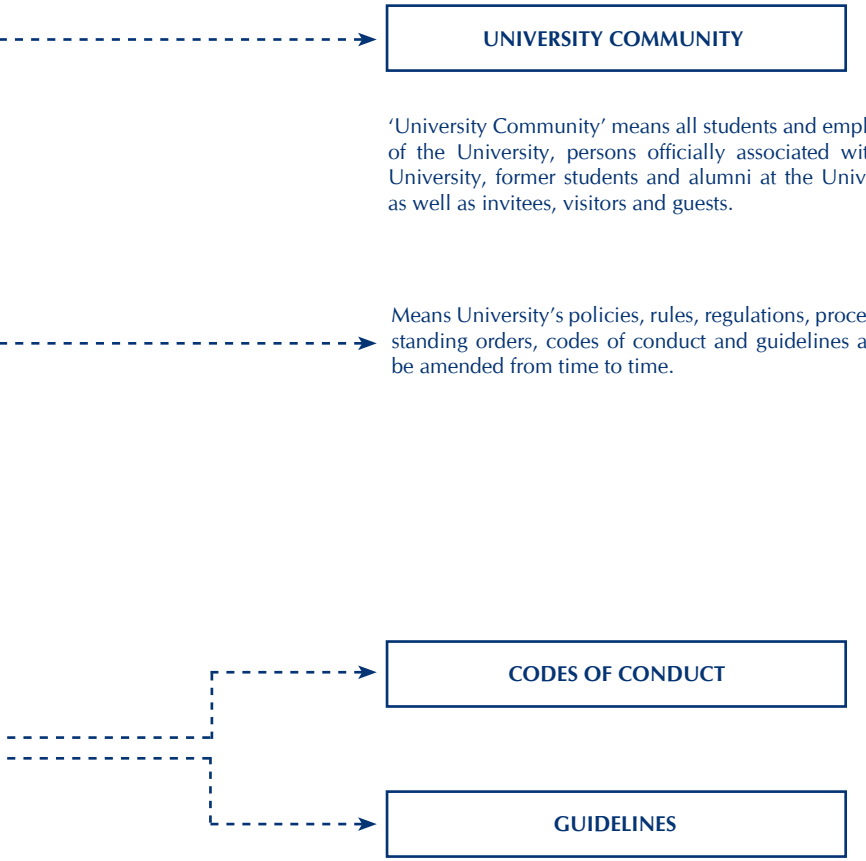
Standing orders expand on rules and/or policies and govern the manner in which all business shall be conducted. Standing orders are a set of instructions on how to carry out a task.

These standing orders are recommended by Faculty Board to Senate for approval.

FACULTY STANDING ORDERS

These standing orders are recommended by the School to the Faculty Board for approval.

SCHOOL STANDING ORDERS


UNIVERSITY COMMUNITY
'University Community' means all students and employees of the University, persons officially associated with the University, former students and alumni at the University, as well as invitees, visitors and guests.
Means University's policies, rules, regulations, procedures, standing orders, codes of conduct and guidelines as may be amended from time to time.
CODES OF CONDUCT
GUIDELINES
Set out the preferred manner in which you carry out a process/procedures or course of action.

General Rules for the Faculty of Health Sciences

Introduction

The rules contained in this section are the General Rules of the *University* and apply to all *students*. There are also specific rules for each Faculty, which are subordinate to the General Rules. General Rules are defined by 'Rule G' and apply to all *students*.

On registering at this *University*, the *student* bears the responsibility of ensuring that s/he is familiar with the rules applicable to her/his registration. Ignorance of these rules will not be accepted as an excuse.

All Rules and Syllabuses are available online. Limited copies are also available in print format.

All words appearing in italics have been defined. Information presented in the shaded boxes, is intended for explanatory purposes only.

G1 Definitions

1.1 *Academic year* means the period determined by the *Senate* from time to time for any particular year of study for any particular *qualification*.

1.2 *Admission* means entry to a *course* or *qualification* unless it is indicated otherwise.

1.3 A*ny university* or *any other university* means any university recognised by the Senate for the purpose under consideration.

1.4 *Applicant* means a person who has submitted an application in hard-copy or electronic format to become a *student* of the *University*.

1.5 *Assessment* means the process of judging learning and may have both a formative and/or summative nature.

1.6 *Auxiliary pass* (also referred to as ancillary pass or condoned pass, unless the contrary appears in the faculty rules) means a special type of condonation of a failing mark to a pass when no supplementary *assessment* is offered, so that the *course* will be included as a *credit* towards the *qualification* but the *student* may not proceed to a higher level *course* in that subject.

1.7 *Candidate/Postgraduate student* (see Rule G1.24) means a *student* registered for a *higher qualification* (see Rule G1.16).

1.8 *Corequisite course* is a course which must be taken with another course and is a requirement for credit in the other course.

1.9 *Course* means a component of teaching and learning activity, which may run for an entire academic year or a portion thereof, that is recognised in any of the faculty rules as a component of a qualification.

1.10 *Credit* means the recognition that is obtained when a *student* passes such *assessments* and complies with such conditions as the *Senate* may impose for the completion of each *course*. A *credit* towards a *qualification* may be granted to a *student* in respect of a *credit* obtained from another institution recognised by the *Senate* for this purpose or from another faculty within the *University*.

The plural includes the singular where the sense so suggests.

1.11 *Credit Accumulation and Transfer* (CAT) is the practice of accumulating credits from one or more cognate learning programmes in an institution, and the transfer of credits to be recognised towards a qualification/part-qualification in the same or a different institution to the satisfaction of Senate. This practice is subject to the rules published by the CHE and in conformance with the HEQFS requirements.

1.12 *Curriculum* means a *course* or combination of *courses* leading to a *qualification*.

1.13 *Dissertation* is the term reserved for an extended piece of written work that makes a contribution to the advancement of knowledge that may incorporate creative work or publications integral to the argument, and is submitted in fulfilment of the requirements for a degree of master by research.

1.14 *Examination and re-examination* mean a formal, compulsory, summative, scheduled assessment.

1.15 *Exemption* from a *course* means that the *Senate* has deemed a *student* to have a sufficient understanding of the subject matter of that *course* to warrant the *student* not having to complete the *course*. An *exemption* is not a *credit* but allows the *student* to proceed to the subsequent *level* in a particular *course*. The full number of *credits* required for a *qualification* is not affected by the granting of an *exemption*.

1.16 *Higher qualification* means a *qualification* which requires at least the attainment of a first degree, or equivalent recognised by the *Senate*, at entry level and includes a degree of Bachelor with Honours.

1.17 *Joint degrees* mean an undergraduate (Bachelors) or a *postgraduate* degree (Masters and PhD), jointly offered by the *University* and an external non-South African partner institution, recognised by the *Senate*. The student/candidate shall receive a single co-branded degree certificate representing work completed at the *University* and a partner institution.

1.18 *Matriculation* means the formal recognition by Umalusi prior to 2008 in terms of any law, of the capacity of a *student* to enter a university.

Umalusi is a council for quality assurance in the certification of qualifications in the general education and training band (Grades 0 to 9) and the further education and training band (Grades 10 to 12).

1.19 *National Senior Certificate (NSC)* means the formal recognition by Umalusi from 2008 in terms of any law, of the capacity of a *student* to enter a university.

1.20 *National Certificate (Vocational) [NC(V)]* means the formal recognition by Umalusi from 2009 in terms of any law, of the capacity of a vocational *student* to enter a university.

1.21 *Notional Hours of Learning* means the agreed estimate of the average learning time that it would take a student to meet the defined outcomes. It includes but is not limited to the consideration of contact time, research, completion of assignments, time spent in structured learning in the workplace, and individual learning.

1.22 *NQF credits* are *credits* recognised by the Higher Education Qualifications Sub-Framework (HEQSF) as a measure of the volume of learning required for a qualification, qualified as the number of notional study hours required for achieving the learning outcomes specified for a qualification.

1.23 *Occasional student* means a person who is registered at the *University* for any *course/s* for non-qualification purposes. An occasional *student* is deemed to be a *student* as defined in Rule G1.33 for all other purposes.

1.24 *Postgraduate student/Candidate* means a *student* who is registered for a *higher qualification* (see Rule G1.7).

1.25 *Prerequisite course* is a course for which *credit* must be obtained before being able to register for the subsequent *course*.

1.26 *Programme* is a *course* or set of *courses* or postgraduate research which may lead to a *qualification*.

1.27 *Qualification* includes any degree, diploma, certificate, licentiate, or any other educational attainment that is offered by the *University* as stipulated in its list of *qualifications*.

1.28 *Recognition of prior learning* means the taking into account of the previous learning and experience of the applicant by the *Senate* either for purposes of *admission* and/or for the granting of *exemption* or full or partial *credit* towards one or more *courses*.

1.29 *Research Report* is the term reserved for the written document which forms the research component of a degree of master by coursework and research report and which may include creative work or publications integral to the argument.

1.30 *Semester* is half an *academic year*.

1.31 *Senate* is defined in section 1 as read with section 28 of the Higher Education Act 101 of 1997 and is the body which governs the policies and procedures in respect of the teaching, learning, research and academic functions of the *University*. The *Senate* may delegate its powers except where expressly prohibited from doing so by the University Statute.

In many cases the powers of the Senate are, for practical purposes, delegated to and exercised by the deans of the faculties or, in specific instances their nominee/s.

1.32 *Short course* is a certified teaching and learning activity of less than 1200 notional study hours which does not, or does not directly, carry credit towards a qualification. With special permission of the *Senate*, short *courses* may carry *credit* towards a *qualification*. A short *course student* is not deemed to be a *student* as defined in Rule G1.33 but is still subject to the *University* rules, policies and procedures.

1.33 *Student* means any person registered at the University full-time or part-time for a degree, diploma, licentiate or certificate of the University or enrolled for any course or programme of instruction of the University, provided that a person so registered or enrolled who is also a full-time or part-time employee of the University is not a student for the purpose of membership of the Council or the Senate.

1.34 *Study-abroad component* means that part of a *curriculum* leading to a *qualification* which a *student* has been granted permission by the *Senate* to complete at an institution recognised by the *Senate* for this purpose, in a country other than South Africa.

1.35 *Teaching block* is a quarter of an *academic year*.

1.36 *Thesis* is the term reserved for an extended piece of writing based on research that makes an original and significant contribution to knowledge that may incorporate creative work or publications integral to the overall argument, and is submitted in fulfilment of the requirements for a doctor of philosophy qualification.

1.37 *University* means the University of the Witwatersrand, Johannesburg, unless the context indicates otherwise.

G2 Powers of the University

2.1 The *University* has the power in terms of section 77(3) of its Statute to confer, in any faculty, the degrees of bachelor, master and doctor, as well as to grant a diploma, certificate, licentiate or other *qualification* to any person who has satisfied such requirements as may be prescribed.

2.2 No *qualification*, other than an honorary degree, may be conferred by the *University* upon any person who has not attended the *University* as a *student* for such period, and satisfied such other requirements, as may be prescribed.

2.3 The *University* may confer, without attendance or examination, an honorary degree of master or doctor, in any faculty, upon any person who has rendered distinguished services in the advancement of arts, science, jurisprudence or other branches of learning, or who has otherwise rendered herself or himself worthy of such a qualification. The *University* has the power in terms of section 79(8) of its Statute to withdraw the conferment of any qualification.

2.4 The *University* provides higher education at or above level 5 of the National Qualification Framework as contemplated in the National Qualifications Framework Act, Act No 67 of 2008.

2.5 The *University* has the power in terms of its Statute and the Higher Education Act 101 of 1997 to determine the *admission* policy, the entrance requirements in respect of its *curricula*, the number of *students* who may be admitted for a particular *curriculum* or *course* and the manner of their selection and the minimum requirements for the readmission to a *curriculum* leading to a *qualification* in a faculty of the *University*. The *University* has the power to refuse readmission to a *student* who fails to satisfy such minimum requirements for readmission.

2.6 The *University* reserves the right not to offer a particular *course* or *qualification* notwithstanding that such *course* or *qualification* appears in the rules of a faculty.

G3 Application of Rules

3.1 These rules apply to all *students* who register for the first time in 2022 and to all *students* who were registered before 2022 unless for compelling reasons the *Senate* determines otherwise in a particular case, in which event such a *student* may proceed in terms of the rules under which s/he was last registered, or in terms of amendments to these rules, or in terms of a special *curriculum* laid down for her/him by the *Senate* subject to the provisions of Rule G7.

3.2 Where a right of appeal or review exists any *student*, who is the subject of an adverse decision must be informed by the member of the academic or administrative staff who conveys the decision of that right and of the procedure to be followed.

G4 Admission

4.1 Application for admission

A person who wishes to be admitted as a *student* of the *University* must apply in hard- copy or electronic format on the *University's* application form submitting evidence of her/his academic and general *qualifications*. In the case of application for *admission* to a *programme* leading to a higher *qualification* the *applicant* may be required to indicate the line of research s/he wishes to pursue.

4.2 Medical fitness

In respect of certain *courses* or *qualifications* an *applicant* may be required to demonstrate mental and/or physical fitness and may not be admitted to such *course* or *qualification* if s/he does not so demonstrate to the satisfaction of the *Senate*.

4.3 Discretion of the Senate to admit

Notwithstanding anything contained in the Rules regarding the minimum requirements for *admission*, the *Senate* may on good cause admit or refuse to admit any *student* to any year of study.

4.4 Proficiency in English

4.4.1 All *applicants* for *admission* (with the exception of those referred to in Rule G4.4.2) to any *curriculum* leading to a *qualification* must have passed English as a first or second language (higher grade) at *matriculation* or passed English home language or first additional language in the NSC or NC(V) or at a level considered equivalent by the *Senate* or deemed to be equivalent by legislation.

4.4.2 Immigrants of less than five years' residence in South Africa who have passed English at the standard grade at *matriculation* or who have passed English in the NSC or NC(V) will be considered for *admission*.

4.4.3 Notwithstanding Rule G4.4.1 and Rule G4.4.2, the *Senate* recognises the International English Language Testing System (IELTS) with a minimum test score of seven (7) or the Cambridge English Language Assessment (CAE) with a minimum of 185 points to be proficient for admission. In exceptional cases, the Test of English as a Foreign Language (TOEFL) may be recognised by the University with a minimum test score of 600 for *admission*.

A pass in English at the General Certificate of Secondary Education (GCSE), the International General Certificate of Secondary Education (IGCSE), or the General Certificate of Education (GCE) Ordinary level is considered equivalent to a pass in English at NSC or NC(V) level or at the higher grade at matriculation level.

4.5 Faculty or qualification-specific requirements

In addition to satisfying the minimum *admission* requirements of the *University*, an *applicant* must satisfy any additional requirements of the faculty to which s/he seeks *admission*.

4.6 Certificate of good conduct

A *student* who was registered at any other university, must upon application for *admission* to this *University*, submit a certificate of good conduct and an academic transcript issued by that university or those universities, which satisfies the *Senate* that s/he is a person of good standing.

4.7 Credits and exemptions

4.7.1 Credits

The *Senate* may grant a *student credit* in a *course* or *courses* once only, if s/he has completed:

a) an equivalent *course* offered under a different curriculum, for the same *qualification* in the *University*;

b) the same or equivalent *course* offered for another *qualification* in the *University* provided that the required attendance period at the *University* has been satisfied in terms of Rule G6.1; or

c) an equivalent *course* offered in another university or institution recognised for this purpose by the *Senate* provided that the provisions of Rule G4.8 and Rule G7.9 are observed.

d) an equivalent short *course* at this *University* recognised for this purpose by the *Senate* in terms of Rule G1.32 but such short *courses* shall not constitute more than 50 percent of the *credits* towards a *qualification*.

Such credits are acknowledged as part fulfilment of the requirements for a qualification and with permission of the Senate these courses may carry credit towards a qualification but shall not constitute more than 50 percent of the credits towards a qualification. See Rule G1.11.

4.7.2 Exemptions

On admission and subject to Rule G7.9 the *Senate* may grant a *student exemption* from a *course* or part of a *course* offered by the *University* where it has deemed a *student* to have a sufficient understanding of the subject matter to warrant the *student* not having to complete the *course* or part of the *course*. An *exemption* is not a *credit* but allows the *student* to proceed to the subsequent year of study in a particular *course*. The full number of *credits* required for a *qualification* is not affected by the granting of an *exemption*.

4.8 Credits for previous study

4.8.1 An *applicant* may be admitted to any curriculum leading to a *qualification* and this *University* may accept, as far as practicable, certificates of proficiency (*credits*) issued by another university or institution and periods of study as a matriculated *student* at another university or institution, provided that:

a) the periods of attendance at this and any other institution are together not less than the completed period prescribed by this *University* for that *qualification*;

b) s/he has at this *University*:

i) in the case of a first *qualification* for which the period of attendance is three or four *academic years*, attended for at least two *academic years* and has attended and completed at least half of the total number of NQF credits prescribed for the *qualification* including the final year course/courses in her/his major subject; or

ii) in the case of a first *qualification* for which the period of attendance is more than four years, attended for at least half the required period of attendance and completed at least half of the total number of *courses* prescribed for the *qualification*; or

iii) in the case of any other degree of bachelor offered after a first degree, attended for at least two *academic years*, except for the degree of Bachelor of Education (BEd), for which the period of attendance may be one *academic year*, and has attended and completed at least half of the total number of NQF credits prescribed for the degree.

iv) in the case of any postgraduate degree, attended and completed at least half of the total number of courses prescribed for the degree.

c) s/he applies for such *credit* during or before the end of the first registration period.

4.8.2 A *student* may be granted entry to a *qualification* if s/he has completed a diploma with a minimum duration of three years at this *University* or another institution recognised by the *Senate* for this purpose. To allow for such entry into another qualification Umalusi must have granted complete or conditional exemption from the *matriculation* examination or must have formally recognised the capacity of the NSC or NC(V) *student* to enter a university. Such exemption or formal recognition by Umalusi must have been backdated to the commencement of the year in which *credit* for such diploma was first earned. *Credits* towards such a diploma may be accepted as part of the requirements for a *qualification* offered by the *University* provided that the *student* complies with Rule G4.8.1 (a), (b) i – iii and (c) above.

4.9 Admission to an undergraduate diploma, certificate, licentiate or other qualification

The *Senate* may, by resolution, determine the standard for admission to a programme leading to an undergraduate diploma, certificate, licentiate or other undergraduate *qualification* other than a degree. Different standards may be set for the different *qualifications*.

4.10 Admission to the degree of bachelor

4.10.1 National Senior Certificate/National Certificate (Vocational)/ Matriculation

The minimum requirement for admission to a programme leading to the degree of bachelor is:

a) a *National Senior Certificate (NSC)* with the formal recognition by Umalusi in terms of any law, of the capacity of a applicant to enter a university for the degree of bachelor;

b) a *National Certificate (Vocational) – NC(V)* with the formal recognition by Umalusi from 2009 in terms of any law, of the capacity of a vocational applicant to enter a university for the degree of bachelor;

c) m*atriculation* in the form of a university entrance examination or a *matriculation* endorsement from Umalusi or the granting of complete or conditional *matriculation* exemption by the Matriculation Board of Universities South Africa (USAf).

The date of validity of the NSC, NC(V), matriculation certificate, matriculation endorsement, or certificate of exemption from the matriculation examination must precede 2 April of the academic year for which admission is sought, notwithstanding that the certificate may be issued at a later date.

4.10.2 Certificate of conditional exemption on recommendation of the Senate

Certificate of conditional exemption on recommendation of the *Senate*:

An *applicant* must be issued a certificate of conditional exemption by USAf if that *applicant*, in the opinion of the *Senate* has demonstrated, in a selection process approved by the *Senate*, that s/he is suitable for *admission* to the *University*. Where the *Senate* certifies that the holder of a certificate of conditional e*xemption* issued in terms of this paragraph has completed the normal requirements of the *curriculum* for the first year of study of any qualification, USAf must issue a certificate of complete e*xemption to* her/him, dated from the first day in January of the year in which the first degree credit was obtained. An applicant may be registered for a *course* under this rule only if places are available for that *course*. In the case of an applicant who has not qualified with an NSC or NC(V) for entry to a university, Rule G4.3 will apply.

4.10.3 Certificate of ordinary conditional exemption

An *applicant* who has been issued a conditional exemption from the *matriculation* examination and who has one outstanding requirement for complete exemption may be admitted to a programme leading to the degree of bachelor provided that s/he fulfils that outstanding requirement in the first year of study as prescribed by USAf. In the case of an *applicant* who has not qualified with an NSC or NC(V) for entry to a university, Rule G4.3 will apply.

4.10.4 Mature age conditional exemption

An *applicant* who has been issued a mature age conditional exemption from the *matriculation* examination by virtue of being over the age of 23 years or 45 years, as the case may be, may be admitted to a programme leading to the degree of bachelor on condition s/he fulfils the requirements of the undergraduate *qualification* within the period stipulated by the faculty concerned. Such fulfilment entitles the *applicant* to complete exemption from the *matriculation* examination.

For the purposes of mature age conditional exemption the USAf distinguishes between applicants aged 23 to 44 years and applicants of 45 years or more. Further details regarding mature age conditional exemption are available from USAf.

In the case of an *applicant* who has not qualified with an NSC or NC(V) for entry to a university, Rule G4.3 will apply.

4.10.5 Holder of a three-year diploma

An *applicant* who has passed school Grade 12, but who did not obtain a *matriculation* exemption, an NSC or an NC(V) to enter university, and who has completed a three- year diploma from a university, university of technology, teachers' training college, nursing college or a franchised or associated technical or community college recognised by the *Senate* for this purpose may be admitted to a programme leading to the degree of bachelor on condition that s/he fulfils the requirements of the undergraduate *qualification* within the period stipulated by the faculty concerned. Such fulfilment entitles the *applicant* to complete exemption from *matriculation*, the NSC or the NC(V).

4.10.6 Immigrant conditional exemption

Subject to Rule G4.4, a person who has resided in South Africa for less than five years and who has been issued with a conditional *matriculation* exemption by reason of not having passed a second language at higher grade in the school-leaving examination at a South African school, may be admitted to a programme leading to the degree of bachelor, on condition that s/he completes a second language *course* at higher grade or NSC or NC(V) or university level within the period stipulated by the faculty concerned. The *qualification* cannot be awarded until this condition has been fulfilled.

4.10.7 Foreign conditional exemption

An *applicant* from a foreign country who has been issued a conditional exemption from the *matriculation* examination by USAf may be admitted to a programme leading to the degree of bachelor on condition that s/he fulfils the requirements of the undergraduate *qualification* within the period stipulated by the faculty concerned. Such fulfilment entitles the *applicant* to complete exemption from the *matriculation* examination. In the case of a foreign *applicant* who has not qualified with an NSC or NC(V) for entry to a university, Rule G4.3 will apply.

4.11 Admission to a programme leading to a higher qualification

4.11.1 General requirement for admission to a programme leading to a higher qualification

For *admission* to a programme leading to a *higher qualification* the *Senate* must be satisfied that the *candidate* is qualified at an appropriate standard to undertake the proposed line of study or research or both.

4.11.2 Admission to a programme leading to a degree of bachelor with honours

Subject to Rule G4.11.6, a graduate in an area of study which the *Senate* considers appropriate of this or another university recognised by the *Senate* for this purpose may be admitted to a *programme* leading to the degree of bachelor with honours. However, in a case considered by it to be exceptional, the *Senate* may admit a person who has not satisfied all the requirements for the degree of bachelor, and in such a case the degree of bachelor with honours will not be made until the requirements for the degree of bachelor have been satisfied.

4.11.3 Admission to a postgraduate diploma or certificate

Subject to Rule G4.11.6, a graduate in an area of study which the *Senate* considers appropriate of this or another university recognised by the *Senate* for this purpose may be admitted to a programme leading to a postgraduate diploma or certificate. However, in a case considered by it to be exceptional, the *Senate* may admit as a *student* a person who has not satisfied all the requirements for the degree of bachelor, and in such a case the award of the postgraduate diploma or certificate will not be made until the requirements for the degree of bachelor have been satisfied.

4.11.4 Admission to a programme leading to the degree of master

Subject to Rule G4.11.6, a graduate of this or another university recognised by the *Senate* for this purpose may be admitted to a programme leading to the degree of master if s/he holds a *qualification* in a field considered by the *Senate* to be appropriate and which can normally only be taken over not less than four years of full-time study; or if s/he holds more than one *qualification* both or all of which are considered by the *Senate* to be in an appropriate field, and for which the combined number of years of full-time study is not less than four years. The *Senate* may require an applicant for registration for a programme leading to the degree of master to attend such courses or pass such examinations, oral or written or both, as it deems necessary before admitting her/him as a *candidate* for the *qualification*.

4.11.5 Admission to a programme leading to the degree of Doctor of Philosophy

Subject to Rule G4.11.6, a holder of a degree of master in an appropriate field from this or any other university recognised by the *Senate* for this purpose may be admitted to a programme leading to the degree of Doctor of Philosophy.

4.11.6 Overriding criteria for admission to a programme leading to the award of a higher qualification

Notwithstanding the criteria specified in Rule G4.11.2 to Rule G4.11.5 above, a person who has demonstrated a level of competence to the *Senate's* satisfaction by virtue of examples of research, writings, experience, professional standing or reputation or other attainments or *qualifications* in the discipline or cognate field may be admitted as a *candidate* to a higher *qualification*.

4.11.7 Admission to candidature for a senior doctorate

Any person may be admitted as a *candidate* for the degree of doctor if the *Senate* is satisfied, after consulting with an ad hoc committee of the faculty board concerned which has been convened to peruse the published work submitted, that, on the face of it, a case exists for admitting the *candidate*.

The following qualifications are senior doctorates:

Doctor of Architecture, Doctor of Commerce, Doctor of Economic Science, Doctor of Education, Doctor of Engineering, Doctor of Laws, Doctor of Literature, Doctor of Music, Doctor of Science, Doctor of Science in Architecture, Doctor of Science in Building, Doctor of Science in Business Administration, Doctor of Science in Dentistry, Doctor of Science in Engineering, Doctor of Science in Medicine, Doctor of Science in Quantity Surveying, Doctor of Science in Town and Regional Planning, Doctor of Town and Regional Planning.

4.12 Admission of occasional students

A person, whether matriculated or not, may be permitted by the *Senate* to register for *courses* outside a recognised *curriculum* subject to such requirements and conditions as may be determined by the *Senate*. However, any such courses may not subsequently be granted as *credits* towards a degree unless the *student* had matriculated before commencing them. A *student* seeking credit towards a *qualification* in respect of a *course* taken for non-qualification purposes at this *University* or another institution must satisfy the *Senate* that:

a) s/he is eligible for *admission* to the *curriculum* leading to the *qualification*; and

b) the validity of the *credit/s* has not lapsed.

4.13 Admission of study–abroad/ international occasional students

Students of an institution recognised by the *Senate* for this purpose may be admitted to *courses* for non-qualification purposes.

Where an exchange agreement with such an institution exists fees may be waived on the basis of reciprocity.

4.14 Admission – previously excluded students

The *Senate* may in exceptional circumstances consider the application of a *student* who was previously excluded from the *University,* for having failed to satisfy the minimum undergraduate degree requirements and exceeding the maximum time (N+2) for the completion of the degree. In such a case the *student* will have to demonstrate that if s/he is readmitted, s/he will be able to succeed and complete the degree.

G5 Registration

The last day for registration differs among faculties and programmes. It is the responsibility of the student to find out from the relevant faculty office when the last day of registration is for her/his programme and to register on or before that date.

5.1 Registration and renewal of registration

Except with the permission of the *Senate* no person may attend any *course* or proceed as a *candidate* for any *qualification* unless s/he is registered as a *student* of the *University* at the material time. Registration is renewable annually or on such shorter period as the *Senate* may determine.

Normally, an annual period of registration is from the date of registration in a particular year until the last day of registration in the first quarter of the subsequent year in the relevant faculty.

A student who registers in the first semester for first semester or full year course(s) may with the permission of Senate substitute such course(s) with an equivalent course(s) provided that they do so within the first two weeks of the first semester.

A student who registers in the first semester for a course(s) that commences in the second semester may with the permission of Senate substitute such course(s) with an equivalent course(s) provided that they do so within the first two weeks of the second semester.

5.2 Concurrent registration at other institutions or faculties or for other qualifications

A person who is registered as a *student* for any *qualification* may not be registered as a *student* for any other *qualification* or at any other faculty of the *University* or at any other tertiary education institution except with the approval of the *Senate* normally given in advance. Such approval will only be granted in circumstances considered exceptional by the *Senate*.

5.3 Registration as a student prior to registration for a qualification

The *Senate* may permit or require a person, before being registered for a *qualification*, to register as an occasional *student* and attend *courses* for such period and pass assessments at the prescribed standard in such *courses* as the *Senate* may determine in her/his case.

5.4 Late registration

Late registration, for which a fee may be charged, may be permitted by the *Senate* only in exceptional circumstances.

5.5 Registration for twelve months for senior doctorate

A *candidate* for a senior doctorate must be registered as a *student* of the *University* for at least twelve months before the *qualification* may be conferred.

5.6 Cancellation of registration due to ill health

5.6.1 An *applicant* for registration in the first or any subsequent year of study may be required to satisfy the Vice-Chancellor that s/he is physically and mentally fit to carry out the work involved in that or any subsequent year of study, and may for this purpose be required to present herself/himself for, and submit to, any medical examination that the Vice-Chancellor may require in her/his case.

5.6.2 The Vice-Chancellor may suspend the registration of any *student* if s/he is satisfied that this step is warranted because of the *student's* physical or mental ill health. An appeal against such suspension may be made to the Council.

5.6.3 The Council may cancel the registration of any *student* because of her/his physical or mental ill health if it is satisfied after giving the student a proper opportunity to make representations (as defined in the Administration of Justice Amendment Act 53 of 2002), that this step is warranted.

5.7 Cancellation of registration as a result of unsatisfactory performance/progress

5.7.1 The *Senate* may cancel the registration of an undergraduate *student* in one or more of the *courses* for which that *student* is registered in that year, if in the opinion of the *Senate* the *student's* progress is unsatisfactory or if the academic achievement of the *student* is such that s/he will not at the end of the year obtain *credit* in such *course* or *courses*. For this rule to be invoked, the Head of School must ensure the criteria have been published in advance by which progress and/or academic achievement will be judged as the case may be. An appeal against such cancellation may be made in the first instance to the relevant Head of School. If the Head of School is unwilling to reverse her/his original decision, s/he shall forthwith place the *student's* representations and his/her own written comments before the Dean for a decision. In exceptional cases, the Dean may set up an appeal committee composed of two senior faculty members (one from the school concerned) nominated by her/him. The decision of the Dean or the appeal committee, as the case may be, shall be final. Fee implications associated with the cancellation of registrations are outlined in the Schedule of Fees books.

5.7.2 The *Senate* may cancel the registration of an undergraduate *student* in the *qualification* for which that *student* is registered in that year and in the opinion of the *Senate* the *student's* progress is unsatisfactory or the *student* has not met the conditions that was stipulated for her/his readmission in that year of study.

5.7.3 The *Senate* may cancel the registration of a postgraduate *student* registered for a programme by research if a higher degrees committee (or equivalent), on the recommendation of the relevant supervisor(s) and head of school, has considered the research proposal and/or other milestones of the research of that *student* and has judged the research proposal or the progress towards the milestones to be academically unsatisfactory or, in material aspects, incomplete. The higher degrees committee may appoint a panel comprising one member of the higher degrees committee, the relevant supervisor and the relevant Head of School for the purpose of advising the higher degrees committee. Reasons must be given when such registration is cancelled and an appeal against such cancellation may be made to the Dean of the Faculty, who will then propose membership of an ad hoc committee to review the case. The three-person ad hoc committee will be chaired by the Dean. The Chairperson of the higher degrees committee; the Head of School and/or the Supervisor (or equivalent); may be in attendance.

If the ad hoc committee does not permit renewal of registration, the *student* has the right to submit a further appeal to the Deputy Vice-Chancellor (DVC): Research who may consult with the Dean. The decision of the DVC: Research acting on behalf of the Council, shall be final. Fee implications associated with the cancellation of registrations are outlined in the Schedule of Fees book.

5.7.4 The process set out in Rule G5.7.3 will also apply to a postgraduate *student* registered for a programme which includes coursework.

5.8 Change of registration

In exceptional circumstances, where a first-year *student* is adjudged by the *Senate* to be making inadequate progress and the criteria by which such judgment is made have been published in terms of Rule G5.7, the *student* may be permitted or required to alter her/his registration to a special *curriculum* for the same *qualification*.

5.9 Cancellation of registration by student

5.9.1 Date of cancellation of registration for a qualification

Unless in exceptional circumstances the *Senate* otherwise determines, a *student* who cancels her/his registration for a *qualification* less than one month prior to the commencement of the final *examination* session in which the *assessment* for that *qualification* are held, will be deemed to have failed in all the *courses* for which s/he was registered in that year, except for those *courses* which s/he has already completed.

5.9.2 Date of cancellation of registration in a particular course

Unless the *Senate* otherwise determines, a *student* may not cancel her/his registration for a particular *course* less than one month prior to the commencement date of the final *examination* session in which the *assessment* for that *course* is held.

5.10 Refusal of permission to register

A *student* who fails to complete a *course* may be refused permission by the *Senate* to register again for that *course* if *admission* to the *course* is limited or if s/he has registered more than once for that course.

G6 Attendance

6.1 Minimum Attendance

The minimum attendance for any programme shall be determined by the Faculty Rules in compliance with the HEQFS.

6.2 Failure to attend

Any *student* registered for any *course* who fails to fulfil the attendance requirements prescribed by the faculty for that *course* may be refused permission by the *Senate* to present herself/himself for assessment in that *course*.

6.3 Outside work, visits, tours, fieldwork, vacation employment, non-examined courses

The requirements for any *qualification* or *course* may include such work or attendance whether within or outside the *University* and during the academic year and/or vacation periods as the *Senate* may prescribe. A *student* is required to perform satisfactorily all duties required of her/him in this connection. Failure to comply with these requirements may result in the *student* being refused permission by the *Senate* to present herself/himself for *assessment*, to register for the subsequent year of study or any particular year of study thereafter or ineligibility for the conferment of the *qualification*.

6.4 Exemption from attendance

In exceptional circumstances where it is deemed appropriate, the *Senate* may excuse a *student* from attending all or part of a *course*.

6.5 Attendance requirement for students for qualification

Any *student* for whom attendance is not otherwise prescribed by the rules is required to attend at the *University* for such period and in such manner as may be determined by the *Senate*. The *Senate* may waive this requirement in exceptional circumstances.

6.6 Limitation on the activity of a student for reasons of ill health

6.6.1 The Vice-Chancellor is entitled to investigate the physical or mental health of any *student* where s/he considers it necessary in the interest of the *student* or in the interests of the *University*, to that end may require the *student* to obtain a medical report from or to submit to examination by a suitably qualified medical practitioner or psychologist acceptable to the Vice-Chancellor. The University is responsible for any costs incurred in the course of such investigation.

6.6.2 Whenever the Vice-Chancellor has reasonable grounds to believe that a *student* is or may become a danger to herself/himself or to any other person, or may cause damage to any premises occupied or under the control of the *University*, or may disrupt any of the activities or functions of the *University*, s/he may place limitations on the presence or activities of that *student* on *University* premises and the *student* is required to observe those limitations.

Without prejudice to her/his general powers under this rule, the Vice- Chancellor may prohibit the *student* from –

a) entering the precincts of, or any specified part of the *University* including a *University* residence; and/or

b) attending any lecture or any specified lectures, laboratory, or other classes or activity whether academic or otherwise.

Any action taken under this rule must be reported to the next meeting of Council or the Executive Committee of Council.

6.6.3 Unless in the opinion of the Vice-Chancellor the urgency of the case or the condition of the *student* concerned makes it inappropriate or impractical to do so, the Vice-Chancellor or any other officer of the University designated by the Vice-Chancellor, must interview the *student* concerned before any action is taken under Rule G6.6.2 above and afford her/him a reasonable opportunity to be heard.

6.6.4 Any limitation imposed on a *student* under Rule G6.6.2 above remains in force until the Vice-Chancellor is satisfied that it is no longer necessary. However, the *student* concerned is entitled at any time to make representations to the Vice-Chancellor or to apply to the Council to review any limitations imposed under Rule G6.6.2 above.

6.6.5 The Council may, at any time, investigate the matter and having considered any representations that may have been made by the Vice-Chancellor or the student concerned, may confirm, alter or set aside any limitation imposed under G6.6.2 above.

G7 Curricula

7.1 Senate approval of curriculum

A person may not be registered for a *curriculum* leading to a *qualification* in any year of study until her/his *curriculum* for that year has been approved by the *Senate*. An approved *curriculum* may only be amended with the consent of the *Senate*.

7.2 Condonation of breach of rules

The *Senate* may, with retrospective effect, condone any breach of the faculty rules governing a *curriculum* if it is satisfied that the *student* concerned was not at fault and would suffer undue hardship if the breach were not condoned.

7.3 Restriction on choice of courses

In terms of Rule G2.6 wherever the rules for a *qualification* provide for the selection of *courses* by a *student*, such selection may be limited by the timetable of classes, a restriction on the number of *students* to be registered for a particular *course* or insufficient *resources*.

7.4 Special curricula

The *Senate* may approve a special cognately consonant *curriculum* for a *student*:

a) where it considers it necessary for that *student* to proceed on a *curriculum* which extends beyond the minimum period of full-time study. The maximum period of extension is stipulated in the faculty rules; or

b) where it considers it necessary for that *student* to proceed on foundation and/or additional *courses* which do not contribute *credits* towards a *qualification*; or

c) who has been granted *credits* or *exemptions* in terms of Rule G4.7; or

d) who has interrupted her/his studies at the *University* prior to a change in the rules governing the *curriculum* or *qualification* for which s/he was registered or to whom no *curriculum* is currently applicable; or

e) who has been permitted to proceed to a subsequent year of study without having obtained *credit* for all the *courses* prescribed for the previous year of study; or

f) who has, in circumstances considered by the *Senate* to be exceptional, been able to give satisfactory evidence of her/his *qualifications* to proceed to a second or third level *course* in a subject; or

g) who, in the opinion of the *Senate*, suffers or has suffered a disadvantage because of illness or physical disability or because of some other good and sufficient cause; or

h) who has, in circumstances considered by the *Senate* to be exceptional, been able to give satisfactory evidence of her/his ability to complete the first *course* in a subject by part-time study; or

i) in any other circumstances which it considers academically desirable or necessary. The granting of a special *curriculum* has been delegated by the Senate to the Dean of each faculty, or to the nominee/s of the Dean, in instances where the Dean reports such nomination/s and the period for which each such person will exercise this responsibility, to the Faculty Board.

7.5 Change of rules during a student's registration

If the rules governing a *qualification* are changed, a *student* who registered under the old rules and who has obtained sufficient *credits* to enable her/him to proceed to the next year of study in terms of those rules, may proceed on the old *curriculum* unless s/he elects to proceed on the new *curriculum*. However where there are, in the opinion of the *Senate*, compelling reasons for doing so, which may include failure in one or more *courses*, or where a *student* does not register for the next year of study in the ensuing academic year or where at her/his request, a *student* is permitted by the *Senate* to register in the ensuing year on a special *curriculum*, that *student* may be required by the *Senate* to proceed on new rules or on interim rules or on a special *curriculum* laid down for her/him by the *Senate*.

7.6 Study-abroad component/ foreign electives

A registered *student* who completes a *study-abroad component* approved by the *Senate* or, as part of an institutional exchange agreement, completes appropriate *credits* at an institution which is recognised by the *Senate* for this purpose in a country other than South Africa, earns *credits* as defined in the requirements for the *qualification*.

7.7 Credits

Subject to the rules pertaining to a particular *qualification* and any special restrictions on *credits* in the rules, a *student* obtains *credit* in any *course* that s/he successfully completes. However, even if a *student* obtains such *credit*, s/he may be refused permission to renew her/his registration if s/he fails to comply with the minimum requirements of study prescribed.

7.8 Minimum requirements of study

7.8.1 A *student* who does not meet the minimum requirements of study may be refused permission by the *Senate* to renew her/his registration. If, however, a *student* is permitted to renew her/his registration after having failed to satisfy the minimum requirements of study, s/he may be required to satisfy further conditions as the *Senate* may determine in her/his case.

The minimum requirements of study prescribed for students are set out in the faculty rules.

7.8.2 Save in exceptional circumstances, a *student* who fails to meet the minimum requirements of study after s/he has reached or exceeded the maximum time (N + 2) for the completion of the degree shall not be permitted by *Senate* to renew her/his study with the *University*.

Rule 7.8.2 will only apply to undergraduate programmes.

7.9 Withdrawal of, or refusal to grant credits and/or exemptions

The *Senate* may withdraw or refuse to grant *credits* and/or *exemptions* if, in the opinion of the *Senate*, the time which has elapsed between obtaining the *credit* or *exemption* and completion of the other requirements for the award of a *qualification* is excessive or is excessive in view of the nature of the subject.

Unless otherwise stipulated by the Dean of the Faculty, the shelf life of a course is four years.

7.10 Sub-minimum rule

Unless specified otherwise in a *course* outline, a *student* will not be allowed to obtain *credit* for a *course* unless s/he achieves:

a) a final mark of at least 50 percent for that *course*; and

b) a sub-minimum of 35 percent in each of the components of that *course* as well as in the summative assessment for that *course*.

Such a sub-minimum criterion applies only to components which contribute 25 percent or more towards a *course*, unless specified otherwise in the *course* outline.

Summative assessment in this instance is assessment that regulates the progression of *students* by awarding marks at the conclusion of a *course*.

G8 Requirements for Award of Qualification

In addition to the requirements of *admission*, registration, attendance and *assessment* applicable to the *qualification* for which a student is registered, such *student* must meet the requirements for the award of the *qualification* by obtaining *credit* in the *courses* set in each academic year and/or conducting research approved by the *Senate* and satisfying such further requirements as may be prescribed by the *Senate* and which are set out in the faculty rules.

G9 Degree of Master

9.1 General

The *Senate* may require a *candidate* for the degree of master as a condition of the conferment of the degree to attend such *courses* or pass such *examinations* (written or oral) as it deems necessary before conferring the *qualification*.

9.2 The programme of master proceeding by research

Where appropriate a faculty may offer a *programme* leading to the degree of master by advanced study and research normally under the guidance of a supervisor/s appointed by the Senate.

9.3 Programme of master by research report and coursework

Where appropriate a faculty may offer a *programme* leading to the degree of master by research report and coursework by by attendance, completion of a curriculum approved by the Senate and submission of coursework and research report on an approved topic by the Senate.

9.4 Conditions for the conferment of the degree of master by research

A person who is admitted as a *candidate* for a degree of master by research must, after consultation with her or his supervisor if there is one, present for the approval of the *Senate* a *dissertation* on a subject approved by the *Senate*. The *dissertation* must, in the opinion of the *Senate*, constitute both an application of the methods of research and a contribution to the advancement of knowledge in the subject chosen.

Consistent with the definition of a *dissertation* in Rule G1.13, a *dissertation* will be an extended piece of written work which may incorporate creative work or publications.

The terms Dissertation and Research Report are defined in Rule G1.13 and G1.29 Further conditions for the conferment of the degree of master are set out in the faculty rules and the Senate Standing Orders for Higher Degrees.

9.5 Supervision of full-time members of staff

In circumstances considered by it to be exceptional the *Senate* may dispense with the requirement for supervision in the case of a *candidate* who holds an appointment as a member of the full-time academic staff of the *University* and has held such appointment for such period as is laid down in the faculty rules. In such a case the *Senate* must appoint an internal and external examiner.

9.6 Abstract and style of Dissertation or Research Report

The *Dissertation* or *Research Report* prescribed by the *Senate* must include an abstract and conform as far as possible to the style, length and format recommended in the authorised style guide obtainable from faculty offices.

9.7 Copies of Dissertation or Research Report

A candidate for the degree of master must submit for examination an electronic copy of her/his dissertation or research report via email or any other electronic platform designated by the faculty office. In exceptional circumstances the examiner may request a hard copy of the dissertation or research report. In such a case, the candidate will be required to provide a bound hard copy or copies, together with the electronic version. Copies must be in a format that, in the opinion of the Senate, is suitable for submission to the examiners.

Prior to graduation, a candidate must submit a final, corrected electronic copy of her/his dissertation or research report via email or any other electronic platform designated by the faculty office.

9.8 Formal declaration

Together with her/his *dissertation* or *research report*, a *candidate* must submit a formal declaration stating whether –

a) it is her/his own unaided work or, if s/he has been assisted, what assistance s/he has received;

b) the substance or any part of it has been submitted in the past or is being or is to be submitted for a qualification at any other university;

c) the information used in the *dissertation* or *research report* has been obtained by her/him while employed by, or working under the aegis of, any person or organisation other than the *University*.

9.9 Acknowledgement of conferment of degree if material is published

A *candidate* upon whom a degree of master has been conferred by the *University* and who subsequently publishes or republishes her/his *dissertation* or *research report* in whole or in part, must indicate on the title page or in the preface or, if this is not appropriate, in a footnote, that such *Dissertation* or *Research Report* has been approved for that *qualification* by the *University*.

9.10 Completion of all requirements for the degree of master

Unless the *Senate* has granted an extension of time, a *candidate* who has not satisfied all the requirements for the degree of master including submission of a *research report*, if s/he is required to submit one, by the date stipulated in the faculty rules is deemed to have failed. If the *Senate* grants her/him such extension s/he is required to register for the new academic year.

G10 Degree of Doctor of Philosophy

10.1 Fulfilment of requirements for conferment of the degree of Doctor of Philosophy

When the research is completed a *candidate* must:

a) present for the approval of the *Senate* a *thesis*, the research for which is normally conducted under the guidance of a supervisor/s, which must constitute in the opinion of the *Senate* a substantial contribution to the advancement of knowledge in the subject chosen, and which must be satisfactory as regards literary presentation;

The term thesis is defined in Rule G1.36. Further conditions for the conferment of the degree of Doctor of Philosophy are set out in the faculty rules and the Senate Standing Orders for Higher Degrees.

b) furnish an abstract with each copy of the *thesis*;

c) if required by the *Senate*, present herself/himself for such *assessment*, or such other requirements as the *Senate* may determine in respect of the subject of her/his *thesis*.

10.2 Supervision of full-time members of staff

In circumstances considered by it to be exceptional, the *Senate* may dispense with the requirement for supervision in the case of a *candidate* who holds an appointment as a member of the full-time academic staff of the *University* and has held such appointment for such period as is laid down in the faculty rules. In such a case, the *Senate* must appoint one internal and two external examiners.

10.3 Copies of thesis

Unless the faculty rules for the qualification require otherwise, a candidate for the degree of Doctor of Philosophy must submit for examination an electronic copy of her/his thesis via email or any other electronic platform designated by the faculty office. In exceptional circumstances, the examiner may request a hard copy of the thesis. In such a case, the candidate will be required to provide a bound copy of her/his thesis, together with the electronic version. The bound copies must be in a format that, in the opinion of the Senate, is suitable for submission to the examiners.

Prior to graduation, a candidate must submit a final, corrected electronic copy of her/his thesis via email or any other electronic platform designated by the faculty office.

The rules relating to formal declaration (Rule G9.8), acknowledgement of conferment of the *qualification*, (Rule G9.9) and completion of all requirements for the degree of master (Rule G9.10), apply with the appropriate changes.

G9.7, G10.3: A candidate for a higher degree is not entitled to the return of such copies.

G11 Senior Doctorate

11.1 Conditions for the conferment of the degree

A *candidate* for a senior doctorate must present for the approval of the *Senate* at least five copies of original published work, or original work accepted for publication, in a field approved by the *Senate*. Such work must, in the opinion of the *Senate*, constitute a distinguished contribution to the advancement of knowledge in that field.

11.2 Notice of intention to apply for candidature

A *candidate* must give notice in writing to the Registrar of her/his intention to present herself/himself as a *candidate* for the *qualification*, submitting at the same time the title and an outline of the proposed submission.

G12 Conversion of candidature for higher qualifications

12.1 General

Where the requirements for a higher qualification allow, a *candidate* may be permitted or required by *Senate* under conditions prescribed by it to convert her/his candidature from one higher *qualification* to another within the period of registration. Special conditions for conversion are specified in the faculty rules.

The conditions for conversion are generally applicable for existing *programmes* and *qualifications* prior to 2009, for new *programmes* or *qualifications*, i.e. those which have not existed before 2009, the conditions for conversion are subject to *Senate* discretion. On conferment of a converted higher *qualification*, the transcript will be endorsed to reflect the conversion.

Conditions for conversion may change in light of the Higher Education Qualifications Sub-Framework.

12.2 Conversion from a programme leading to the degree of master by research to a programme leading to the degree of Doctor of Philosophy

a) A person who has been admitted as a *candidate* for the degree of master may, in exceptional circumstances, at her/his request and on the recommendation of the supervisor and of the Head of the School concerned, on the basis of work towards the *dissertation* be allowed, by permission of the *Senate*, to proceed instead to the degree of Doctor of Philosophy. Provided further that the degree of master shall NOT be conferred on her/him in the event of her/his–

i) withdrawing her/his candidature for the degree of Doctor of Philosophy;

or

ii) having her/his candidature for the degree of Doctor of Philosophy cancelled in terms Rule G5.7; or failing to satisfy the requirements for the degree of Doctor of Philosophy.

b) A person who has completed the requirements for the degree of master, at her/his request and on the recommendation of the Head of the School concerned, may be permitted by the *Senate* not to have the qualification conferred on her/him, but to conduct, for not less than one academic year of further full-time study, or not less than two academic years of further part-time study, additional research for the degree of Doctor of Philosophy, which shall be a significant extension of the research already completed by her/him: Provided that the period of additional research may be waived or reduced in a case considered by the *Senate* to be exceptional. Provided further that the degree of master shall NOT be conferred on her/him in the event of her/his –

i) withdrawing her/his candidature for the degree of Doctor of Philosophy;

or

ii) having her/his candidature for the degree of Doctor of Philosophy cancelled in terms Rule G5.7; or

iii) failing to satisfy the requirements for the degree of Doctor of Philosophy.

c) A person who is permitted to change her/his candidature in terms of (a) or (b) above will be deemed to have been admitted to candidature for the degree of Doctor of Philosophy at the date of her/his admission to candidature for the degree of master, or at such later date as the *Senate* may determine in her/his case, but will be subject, in all other respects, to the rules for the degree of Doctor of Philosophy and such other conditions as the *Senate* may determine in her/his case.

12.3 Conversion from a programme leading to a degree of master by coursework and research report to a programme leading to the degree of master by research

a) A person who has been admitted as a candidate for the degree of master by coursework and *research report* may, in exceptional circumstances, at her/his request and on the recommendation of the supervisor and of the Head of the School concerned, on the basis of work towards the *research report* be allowed, by permission of the *Senate*, to proceed instead to the degree of master by research. Provided further that the degree of master by coursework and *research report* shall NOT be conferred on her/him in the event of her/his-

i) withdrawing her/his candidature for the degree of master by research; or

ii) having her/his candidature for the degree of master by research cancelled in terms Rule G5.7; or

iii) failing to satisfy the requirements for the degree of master by research.

b) A person who has completed the requirements for the degree of master by coursework and *research report*, at her/his request and on the recommendation of the Head of the School concerned, may be permitted by the *Senate* not to have the degree conferred on her/him, but to conduct, for not less than one academic year of further full-time study, or not less than two academic years of further part-time study, additional research for the degree of master by research, which shall be a significant extension of the research already completed by her/him: Provided that the period of additional research may be waived or reduced in a case considered by the *Senate* to be exceptional. Provided further that the degree of master by coursework and *Research Report* shall be conferred on her/him in the event of her/his –

i) withdrawing her/his candidature for the degree of master by research; or

ii) having her/his candidature for the degree of master by research cancelled in terms Rule G5.7; or

iii) failing to satisfy the requirements for the degree of master by research.

c) A person who is permitted to change her/his candidature in terms of (a) or (b) above will be deemed to have been admitted to candidature for the degree of master by research at the date of her/his admission to candidature for the degree of master by coursework and *research report*, or at such later date as the *Senate* may determine in her/his case, but will be subject, in all other respects, to the rules for the degree of master by research and such other conditions as the *Senate* may determine in her/his case.

G13 Assessment

13.1 General

An *assessment* may be written, practical, electronic, clinical or oral, in project or assignment form or be any other piece of work or any combination thereof as may be specified by the *Senate*, provided that a *student's* overall *assessment* does not consist of an oral *assessment* alone, except if expressly determined as appropriate by the *Senate*. Such determination may not be delegated. In all cases the evaluation must be in a form that is suitable for objective *assessment* by an internal moderator or external examiner. In each case the School must make clear the extent and nature of the work to be assessed and the criteria to be used.

13.2 Examiners

13.2.1 At least one examiner for each *course* must be a member of the academic staff of the *University* who has taught the *students* in the *course* under *assessment* unless it is impracticable in any instance because of the death, dismissal, resignation, absence, illness or other incapacity of the member of staff concerned, or for some reason deemed by the *Senate* to be sufficient.

13.2.2 At least 50 percent of the *assessments* that contribute to the final marks for every *course* will be internally moderated and/or externally examined, provided that at least 30 percent of every *course* is externally examined.

13.2.3 An internal moderator is normally a member of the academic staff who may be from the same department or school or from another department or school but who has not been involved at all in teaching the *course* during the relevant *academic year*. Unless otherwise impracticable or with the approval of the Dean, an internal moderator should not be appointed to examine the same *course* for more than three consecutive years.

13.2.4 An external examiner is normally appointed from outside the *University*, preferably from another university, or in the case of professional disciplines, from among experienced members of the professions. In exceptional cases where these options are impracticable, a member of the academic staff may, with the permission of the Dean, be appointed as an external examiner but only if s/he has not been involved at all in teaching the *course* during the relevant *academic year*. Unless otherwise impracticable or with the approval of the Dean an external examiner should not be appointed to examine the same *course* for more than three consecutive years. There should be no reciprocity between external examiners from this and other institutions save in circumstances which the *Senate* deems exceptional.

13.2.5 An additional requirement with regard to examiners for the degree of Doctor of Philosophy is that the *Senate* must appoint three examiners of whom two must be external examiners as defined in Rule G13.2.4 above.

13.3 Eligibility for assessment

A *student* may be disqualified from presenting herself/himself for any *assessment* if s/he has not satisfied such requirements, including satisfactory participation in the work of the class, as may be prescribed by the *Senate*.

These requirements include, but are not limited to: attendance, assignments completed, tutorials participated in, practical experiments, clinical work, field work and outside work. It is incumbent on each student to ascertain from the head of school what is required to qualify for presentation for assessment for each course. Disqualification includes being refused permission to complete an assessment or receiving no marks for such assessment.

13.4 Additional oral or other form of assessment

The *Senate* may require a *student* to present herself/himself for an oral or other form of *assessment* if, on the marks obtained by her/him after prescribed *assessment*/s, s/he is, in the opinion of the *Senate*, on the borderline of the pass mark or the mark required for a particular class, as defined in the faculty or school standing orders. In such an event the marks obtained in such oral assessment are reported to the *Senate* in addition to the marks obtained in the prescribed assessment/s. The *Senate* must then determine the mark to be allocated.

13.5 Supplementary assessments

A *student* who has failed a *course* may be permitted by the *Senate* to present herself/himself for a supplementary *assessment* where such *assessment* is permitted by the rules of the faculty which teaches and examines the *course*, unless otherwise agreed by the faculties concerned. Supplementary *assessments* may only be deferred in circumstances considered by the *Senate* to be exceptional.

A supplementary assessment fee may be charged.

13.6 Deferred assessments

13.6.1 *Students* applying for a deferred *examination* must do so within three (3) working days after the date of the *examination*.

13.6.2 If the Dean of the faculty is satisfied that there is sufficient reason, s/he may permit a *student* to defer her/his *assessment/s*. The Dean will require the *student* to submit such evidence to support her/his case as the Dean considers necessary.

A Dean who permits a *student* to present herself/himself for a deferred *assessment* may require her/him to do so at such time and subject to such conditions as s/he considers fit and, in particular, may require the *student* to defer or to repeat (as the case may be) some or all her/his *assessments* (or some or all the *assessments* that s/he has not failed) in the year in respect of which her/his application is lodged.

13.6.3 A *student* who does not present herself/himself for a deferred *assessment* is not entitled or permitted to have the *assessment* further deferred unless there are, in the opinion of the *Senate*, exceptional grounds for permitting her/him to do so.

13.6.4 Unless in the opinion of the *Senate*, exceptional circumstances exist, a deferred *assessment*:

a) in the first *semester*, must be completed not later than the first week of the third *teaching block*;

b) in the second *semester*, must be completed before the commencement of the following *academic year*.

13.7 Re-assessment

Where a *student* has presented herself/himself for *assessment* and before the results or provisional or unconfirmed results of such *assessment* are published, the Dean of the faculty, after due consideration of the relevant factors, may permit a *student* to sit for re-*assessment* if at the time of the *assessment* owing to illness or her/his mental state, the *student* was unable to bring her/his judgment properly to bear on whether to apply for a deferred assessment in terms of Rule G13.6.1 above and if the Dean considers that the *student* would suffer hardship to an exceptional degree were s/he not allowed to do so.

13.8 Absence from assessment

Unless the *Senate* is satisfied that there was good and sufficient reason, a *student* who is absent from an *assessment*, in a *course* for which, in accordance with the relevant *curriculum*, s/he is required, permitted or entitled to present herself/himself, fails that *course*.

G14 Academic Progression

14.1 Completion of courses prescribed for previous year of study

Except as provided in the rules for any *qualification* or by permission of the *Senate*, a *student* may not be admitted to a year of study until s/he has completed the *courses* prescribed for any preceding year of study and satisfied such further requirements, if any, as are prescribed by the rules.

14.2 Standard required to proceed

A *student* may not include in her/his *curriculum* any *course* at a subsequent level unless s/he has attained in that *course* at the preceding level such standard as is considered by the *Senate* to warrant her/his admission to the *course* at the subsequent level and has satisfied the prerequisites for that *course* as determined by the *Senate* from time to time.

14.3 Prerequisite non-credit bearing courses

Where a *student* is required to attend a *course* which does not constitute a *credit* towards the *qualification* for which s/he is registered or to perform any other requirement prescribed for any particular year of study for any *qualification*, her/him failure to attend such *course* or to perform such other requirement may result in her/him being refused permission by the *Senate* to register for the subsequent year of study or any particular year of study thereafter.

14.4 Special curricula for students who cannot proceed to the next year of study

A *student* who has obtained *credit* in some of the *courses* prescribed for any year of study but who may not in terms of the rules proceed to the following year of study and who has not been excluded in terms of the faculty rules for progression, may be permitted or required by the *Senate* to proceed on a special *curriculum*. In addition to the *courses* being repeated the student may be permitted to include in her/his *curriculum* a *course* or *courses* prescribed for the next year of study and/or such *course* as may enrich the content of her/his *curriculum*.

14.5 Re-attendance requirement for students who cannot proceed to the next year of study

A *student* who is not permitted by the *Senate* to proceed to the subsequent year of study or to include in her/his *curriculum* for the following academic year a further *course* in a subject in which s/he has obtained *credit*, may be required by the *Senate* to re-attend and perform to the satisfaction of the *Senate* the work of the class prescribed for such a repeated *course*, failing which s/he may be refused permission to register for the subsequent year of study or any particular year of study thereafter.

G15 Results

15.1 Publication of results

The final mark obtained by a *student* in a *course* may be published either by way of a percentage mark or as a result decision except where the *Senate* has, in the case of some supplementary *assessments*, ruled otherwise.

15.2 Non-publication of results

The final marks obtained by a *student* will not be published and a *qualification* will not be conferred on a *student* unless and until –

a) s/he has paid all outstanding fees, levies, disbursements, fines and any other monies lawfully owing to the *University*;

b) any disciplinary proceedings, pending or incomplete, have been completed; and

c) there has been compliance with any order made against the student as a consequence of any disciplinary proceedings.

G16 Conferment of qualification

16.1 Congregation

Qualifications must be conferred by the *University* at a meeting of the Congregation of the *University* convened for this purpose.

16.2 Issuing of a certificate

Degrees are conferred and Diplomas are granted at a *University* Graduation ceremony. A degree or diploma certificate will not be issued to a *student/candidate* prior to her/his name appearing in the official graduation programme.

16.3 Endorsement of certificate

Where a *qualification* is conferred or granted in a specific field, option or branch, the *Senate* may determine that the certificate attesting to such conferment or granting will bear a statement specifying that field, option or branch. The *Senate* may determine that where a person who has been granted such a certificate has satisfied the requirements for another field, option or branch, the original certificate be endorsed to reflect this fact.

16.4 Non-conferment of qualification

A *student* who otherwise qualifies for the conferment of a *qualification* may be deemed not to have done so unless and until –

a) the *student* has paid all outstanding fees, levies, disbursements, fines and any other monies lawfully owing to the *University*;

b) any disciplinary proceedings, pending or incomplete, have been completed;

c) any order made against the *student* as a consequence of any disciplinary proceedings has been complied with; and

d) in the case of the conversion from one higher *qualification* to another s/he has surrendered the certificate in respect of the former higher *qualification*. Where such surrender is impossible the *Senate* may permit the conferment of the *qualification*.

16.5 Permission to complete qualification by obtaining credits elsewhere

The *Senate* may, if it considers fit, permit a *student* who has only one or two, or, in a case considered by it to be exceptional, three *courses* or such number of *courses* as does not exceed 30 per cent of the total number of prescribed *courses* outstanding for a *qualification* and who satisfies the *Senate* that, by reason of a change of residence, or for some other good and sufficient cause, s/he is unable to continue attending at the *University*, to complete such *course* or *courses* at another university or at an institution recognised for this purpose by the *Senate* within or outside the Republic of South Africa.

The policy of the faculties on this issue is set out in the standing orders of each faculty.

G17 Conferment of Qualification with Distinction

The *qualification* is awarded with distinction or with distinction in a particular *course* to a *student* who has obtained the standard laid down by the *Senate* for that purpose.

G18 Honorary Degrees

18.1 A proposal to confer an honorary degree may be made either by a member of the Council or of the *Senate* and must be seconded by another member of either of these structures.

18.2 The proposal must be communicated in writing to the University Registrar.

18.3 The proposal must be accompanied by a statement setting out the reasons for making it.

18.4 A resolution to confer an honorary degree must be passed in the Council and in the *Senate* by an absolute majority of the members of each structure voting by secret postal ballot.

18.5 A person who sits on both structures is entitled to vote in each election.

G19 Intellectual Property

Students are advised to refer to the University Policy on Intellectual Property.

19.1 Any owner's right to intellectual property in any *thesis*, *dissertation*, *Research Report* or any other work is normally subject to the right of the *University* to make a reproduction of it or parts of it in any medium for a person or institution requiring it for study or research, provided that not more than one copy is supplied to that person or institution.

19.2 Where research includes a patentable invention, the *University* may keep the research confidential for a reasonable period if specifically requested to do so.

19.3 Where confidentiality has been agreed in advance the *University* must keep the research confidential for the period agreed.

19.4 Subject to 19.2 and 19.3 the *University* may distribute abstracts or summaries of any *thesis*, *dissertation*, *research report* or any other work for publication in indexing and bibliographic periodicals considered by the *University* to be appropriate.

G20 Ethical Clearance

Students who propose to conduct research of any kind on human or animal subjects must apply for ethical clearance from the appropriate *University's* Ethics Committee/s

Senate Rules for the Faculty of Health Sciences

These Rules are subordinate to and should be read in conjunction with the General Rules. The Rules for degrees and diplomas published here are subject to change. They reflect the Rules and Regulations of the *University* as at 31 July 2021 but may be amended prior to the commencement of the 2022 *academic year*.

General Information

The Faculty consists of the Schools of Physiology, Anatomical Sciences, Oral Health Sciences, Therapeutic Sciences, Public Health, Clinical Medicine, and Pathology, each with its own identity and ethos. The Faculty of Health Sciences is closely associated with the National Health Laboratory Services and the Provincial Health Service.

Qualifications are offered in the following areas: Dentistry (including the Bachelor of Oral Health Sciences in the track of Oral Hygiene), Medicine (including the Bachelor of Clinical Medical Practice), Nursing, Occupational Therapy, Pharmacy and Physiotherapy as well as a general degree (Bachelor of Health Sciences).

1 Application of Rules

See Rule G3.

2 Medical fitness

Without derogating from the generality of the provisions of Rule G4.2, *students* for *qualifications* in the Faculty of Health Sciences shall be physically and mentally fit to carry out the work involved in the *courses* included in the *curriculum* for such *qualifications*. Notwithstanding anything in these rules contained, a *student* who applies for registration in the first or any subsequent year of study may be required by the Vice-Chancellor of the *University* to satisfy it that s/he is physically and mentally fit to carry out the work involved in that or any subsequent year of study, and shall present herself/himself for, and submit to, any medical *examination* that the Vice-Chancellor of the *University* may require in her/his case.

3 Immunisation

An individual for any of the *qualifications* in the Faculty of Health Sciences will not be permitted to register for the first time unless and until s/he submits evidence demonstrating specific antibody or certification of immunisation to the satisfaction of the *Senate*.

4 First Aid and Computer Literacy requirements

Unless otherwise permitted by the *Senate*, a *student* who is admitted, for the first time to any year of study for the degrees of Bachelor of Clinical Medical Practice (BCMP), Bachelor of Dental Science (BDS), Bachelor of Health Sciences (BHSci), Bachelor of Oral Health Sciences (BOHSci), Bachelor of Medicine and Bachelor of Surgery (MBBCh), Bachelor of Pharmacy (B Pharm), Bachelor of Science in Physiotherapy (BSc(Physiotherapy)), Bachelor of Science in Occupational Therapy (BSc(Occupational Therapy)) and Bachelor of Nursing (B Nursing) shall be required to produce a valid certificate in first aid and a certificate of competence in computer usage granted by authorities to be recognised for this purpose by the *Senate* from time to time, failing which s/he shall be refused permission to complete the *examination* for the year of study for which s/he is registered.

5A Registration with professional and statutory bodies

In terms of the Medical, Dental and Supplementary Health Service Professions Act (No. 56 of 1974) and the regulations under the Act all *students* registered for health sciences *qualifications* must register with the Health Professions Council of South Africa at the commencement of their studies for the *qualification* and shall renew such registration after any interruption exceeding one year in their studies. A further registration from *student* to *student* intern will take place at the end of the fifth year of study for medical *students*. The number of years of registration with the Council are as follows: as a medical *student*, normally not fewer than six years; as a dental *student* not fewer than five years; as an occupational therapy *student* or physiotherapy *student* not fewer than four years; as a clinical associate or an oral health sciences *student* not fewer than three years.

In addition, all *students* registered for the degree, Bachelor of Nursing must register with the South African Nursing Council at the commencement of their studies. Graduates will not be permitted to register as nurses with the South African Nursing Council until they have completed all the practical requirements for the *qualification* specified by the *Senate*. Similarly, all *students* registered for the degree, Bachelor of Pharmacy must register with the South African Pharmacy Council at the commencement of their first year of study.

5B Student conduct

Any *student* registering for the first time for any year of study shall be required to sign an undertaking to abide by the Faculty's code of conduct for the *qualifications*, the breach of which may result in a charge of misconduct being preferred against the *student* in terms of the Rules for *Student* Discipline.

6 Declaration at commencement of health sciences studies

A *student* shall subscribe to the following declaration before being admitted to the second year of health sciences study:

'As a *student* in the Faculty of Health Sciences of the University of the Witwatersrand, Johannesburg, I do solemnly declare:

That I will not improperly divulge anything I may learn in my capacity as a *student* of health sciences.

That in my relations with patients, colleagues and others I will conduct myself with dignity as becomes a member of an honourable profession.

And I further declare that I will be loyal to my University and will endeavour to promote its welfare and maintain its reputation.

7 UNDERGRADUATE

7.1 Professional Degrees

Qualification Name	Degree Code	NQF Exit Level
Bachelor of Dental Science (BDS)	MFA08	8
Bachelor of Medicine and Bachelor of Surgery (MBBCh)	MFA00	8
Bachelor of Nursing (BNurs)	MFA07	8
Bachelor of Pharmacy (BPharm)	MFA04	8
Bachelor of Science in Occupational Therapy – (BSc(Occupational Therapy))	MFA03	8
Bachelor of Science in Physiotherapy – (BSc(Physiotherapy))	MFA02	8

7.1.1 Admission rules

7.1.1.1 Minimum requirements for admission*

a) Bachelor of Dental Science

i) A pass in Mathematics, English, Physical Sciences and Life Sciences at level 5 on the Scale of Achievement for the *National Senior Certificate (NSC)*, or a pass in Mathematics, English, Physical Sciences and Life Sciences at level 6 on the Scale of Achievement for the *National Certificate (Vocational) [(NC(V)]* or a pass in English, Mathematics, Physical Sciences and Biology or Physiology at the Higher Grade or a standard of a minimum of 60 per cent at the Standard Grade.

b) Bachelor of Medicine and Bachelor of Surgery; Bachelor of Pharmacy; Bachelor of Science in Physiotherapy

i) A pass in Mathematics and English at level 5 on the Scale of Achievement for the *National Senior Certificate (NSC)*, or a pass in Mathematics and English at level 6 on the Scale of Achievement for the *National Certificate (Vocational) [NC(V)]* or a pass in Mathematics at the Higher Grade or a standard of a minimum of 60 per cent in Mathematics at the Standard Grade; and

ii) a pass in either Physical Sciences or Life Sciences at level 5 on the Scale of Achievement for the *National Senior Certificate (NSC)*, or a pass in either Physical Sciences or Life Sciences at level 6 on the Scale of Achievement for the *National Certificate (Vocational) [(NC(V)]* or a pass at the Higher Grade or a standard of a minimum of 60 per cent at the Standard Grade in a minimum of one of the following subjects: Biology; Physical Sciences or Physiology.

c) Bachelor of Medicine and Bachelor of Surgery – Graduate Entry Medical Programme (GEMP)

i) Acceptance into the Graduate Entry Medical Programme will be based on an *assessment* of the performance achieved in the prior *qualification*/s, and will also require that the *student* meets prescribed standards in English, and Mathematics in the *National Senior Certificate (NSC)* or equivalent and Biology, Physics and Chemistry at first year bachelor's level as set out annually in the "Guide for *Applicants*" booklet. The selection procedure could include additional evaluations.

d) Bachelor of Nursing and Bachelor of Science in Occupational Therapy

i) A pass in Mathematics and English at level 4 on the Scale of Achievement for the National Senior Certificate (NSC), or a pass in Mathematics and English at level 5 on the Scale of Achievement for the National Certificate (Vocational) [(NC(V)] or a pass in Mathematics at the Higher Grade or a standard of a minimum of 50 per cent in Mathematics at the Standard Grade; and

ii) a pass in either Physical Sciences or Life Sciences at level 4 on the Scale of Achievement for the *National Senior Certificate (NSC)*, or a pass in either Physical Sciences or Life Sciences at level 5 on the Scale of Achievement for the *National Certificate (Vocational) [(NC(V)]* or a pass at the Higher Grade or a standard of a minimum of 50 per cent at Standard Grade in one of the following subjects: Biology; Physical Sciences or Physiology.

*** In addition to the minimum requirements as stipulated in Rule 7.1.1.1, all eligible *applicant*s will be required to undertake the National Benchmark Tests, excluding *applicant*s to the GEMP.**

7.1.2 Curriculum rules

7.1.2.1 Length of degree

The length of *curriculum* for each of the degrees referred to in 7.1 is given in the following table:

f/t = full-time

BDS	MBBCh	BNurs	BPharm	BSc(OT)	BSc(Physio)
5 f/t	6 f/t or 4 f/t for appropriately qualified *students*	4 f/t	4 f/t	4 f/t	4 f/t

7.1.2.2 Clinical and practical requirements

a) BDS and MBBCh

i) A *student* shall, to the satisfaction of the *Senate*, comply with such clinical and practical requirements as may be determined by the *Senate* for each year of study, failing which s/he may be refused, in terms of Rule G15.4, permission to present herself/himself for any *assessment*.

ii) A *student* who fails the clinical component of the *assessment* in any *course* shall be deemed to have failed the *assessment* in the *course*.

Rule 7.1.2.2 (a)(ii)

This is a requirement of the Health Professions Council of South Africa (HPCSA).

b) BNurs

Notwithstanding anything to the contrary contained in these rules, a *student* shall be deemed not to have completed a *course* in Nursing, Midwifery, Community Health or Psychiatric Nursing until s/he has completed both the practical and theoretical components prescribed for such *course* in the syllabus thereof.

7.1.2.3 Structure of degree

a) Bachelor of Dental Science

Programme Code: MFA08	NQF Exit Level: 8
Plan Code: MPABDS21	Total NQF Credits: 828

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
ANAT2030A	Anatomy for Dental Students	48	6
PHSL2003A	Physiology and Medical Biochemistry I	48	6
SCMD1005A	Bioethics and Health Law I	3	5
OHSC1006A	Fundamental Dental Skills	25	5
COMD1002A	Community Dentistry I	12	5
OHSC1007A	Dental Materials for Dental Students I	12	5
FAHS1898A	First Aid	0	5
FAHS1997A	Computer Literacy	0	5
Year of Study II			
ANAP3001A	Pathology (Anatomical and Haematological)	24	7
ANAT3030A	Oral Biology for Dental Students	24	7
CMID3002A	Medical Microbiology	24	7
OPAT2000A	Oral Microbiology	12	6
OHSC2008A	Paediatric, Endodontic and Restorative Dentistry I	30	6
PROD2001A	Prosthodontics I	35	6
Year of Study III			
OPAT3003A	Oral Pathology	13	7
PHAR3005A	Pharmacology	6	7
OHSC3011A	Maxillo-Facial and Oral Radiology I	6	7
FAMH3001A	Emergency Medicine	24	7
COMD3002A	Community Dentistry II	9	7
PROD3001A	Prosthodontics II	34	7
SURG3002A	Maxillo-Facial and Oral Surgery I	17	7
OHSC3010A	Paediatric, Endodontic and Restorative Dentistry II	25	7
ORTD3003A	Orthodontics I	12	7
ORMP3003A	Periodontology	35	7
OHSC3013A	Integrated Dentistry I	10	7
OHSC2009A	Dental Materials for Dental Students II	10	8
OHSC3012A	Dental Practice Management I	4	7

Course Code	Description	NQF Credits	NQF Level
Year of Study IV			
MEDC4003A	General Medicine and Paediatrics for Dental Students	12	8
SURG4000A	General Surgery	12	8
OHSC4013A	Integrated Dentistry II	28	8
PROD4002A	Prosthodontics	23	8
OHSC4009A	Paediatric, Endodontic and Restorative Dentistry III	26	8
ORMP4005A	Periodontology and Oral Medicine	32	8
OHSC4010A	Maxillo-Facial and Oral Radiology II	8	8
ORTD4003A	Orthodontics II	12	8
SURG4005A	Maxillo-Facial and Oral Surgery II	25	8
COMD4003A	Community Dentistry III	21	8
SCMD2005A	Bioethics and Health Law II	3	8
OHSC4011A	Dental Practice Management II	4	8
Year of Study V			
ANAE5001A	Anaesthetics	24	8
COMD5003A	Community Dentistry IV	20	8
OHSC5008A	Integrated Dentistry III	76	8

b) Bachelor of Medicine and Bachelor of Surgery

Programme Code: MFA00	**NQF Exit Level: 8**
Plan Code: MPAMBS21	**Total NQF Credits: 1098**

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
APES1001A	Introduction to Medical Science I	36	5
CHEM1048A	Chemistry I	36	5
PHYS1024A	Physics I	36	5
PSYC1008A	Psychological Foundations of Health	18	5
SOCL1016A	Sociological Foundations of Health	18	5
ELEN1009A	System Dynamics for Medical Students	18	6
FAHS1898A	First Aid	0	5
FAHS1997A	Computer Literacy	0	5
Year of Study II			
ANAT2020A	Human Anatomy	48	6
HAEM2000A	Molecular Medicine	48	6
PHSL2004A	Physiology and Medical Biochemistry I	48	6

Course Code	Description	NQF Credits	NQF Level
SCMD2002A	Medical Thought and Practice II	24	6
Year of Study III			
SCMD3000A	Integrated Basic Medical and Human Sciences A	192	7
Year of Study IV			
SCMD4000A	Integrated Basic Medical and Human Sciences B	192	8
Year of Study V			
SCMD5000A	Integrated Clinical Medicine A	192	8
All learning is collected into one *course*, Integrated Clinical Medicine A (SCMD5000A), which is divided into eight clinical blocks: Internal Medicine Surgery Obstetrics Paediatrics Psychiatry, Family Medicine, Public Health Ophthalmology, Urology, Otorhinolaryngology (ENT) Acute and Perioperative Care (Trauma, Anaesthesiology, Emergency Medicine) Integrated Practice			
Year of Study VI			
SCMD6000A	Integrated Clinical Medicine B	192	8
FAHS1594A	MBBCh Elective Studies	0	8
All learning is collected into one *course*, Integrated Clinical Medicine B (SCMD6000A), which is divided into eight clinical blocks as well as two learning components: Internal Medicine Surgery Gynaecology Paediatrics Psychiatry Integrated Primary Care Orthopaedics, Internal Medicine (Mixed Block) Forensic Medicine and Evidence Based Medicine Assignment			
*Elective Studies Before the commencement of the sixth year of study of MBBCh, a *student* shall complete, to the satisfaction of the *Senate*, Elective Studies (FAHS1594A) in a field approved by the *Senate*, extending over a period of four weeks. A *student* must submit a report on the programme of elective studies to the faculty in a format determined and approved by the *Senate*: Provided that in the event of a *student* being required to present herself/himself for the end-of-year *examination*, the *Senate* may require the *student* to pursue a prescribed programme of studies, designed to assist the *student* to prepare for the end-of-year *assessment*, to be determined by the *Senate*. In such an event, the programme of elective studies shall commence after the completion of the end-of-year *examination*.			

c) Bachelor of Nursing

Programme Code: MFA07	NQF Exit Level: 8
Plan Code: MPANUR21	Total NQF Credits: 508

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
APES1000A	Introduction to Medical Sciences	18	5
SOCL1012A	Human Behavioural Sciences I	18	5
NRSE1002A	Integrated General Nursing Sciences I	64	5
ANAT2005A	Anatomy for Nursing Sciences I	24	5
FAHS1898	First Aid	0	5
FAHS1997	Computer Literacy	0	5
Year of Study II			
PHSL2003A	Physiology and Medical Biochemistry I	48	6
CMID2000A	Microbiology	24	6
NRSE2001A	Integrated General Nursing Sciences II	60	6
Year of Study III			
PHAR3000A	Pharmacology	24	7
NRSE3004A	Midwifery I	60	7
NRSE3003A	Integrated General Nursing Sciences III	48	7
Year of Study IV			
NRSE4004A	Midwifery II	60	8
NRSE4003A	Integrated General Nursing Sciences IV	60	8

d) Bachelor of Pharmacy

Programme Code: MFA04	NQF Exit Level: 8
Plan Code: MPAPHM20	Total NQF Credits: 576

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
APES1000A	Introduction to Medical Science	18	5
CHEM1048A	Chemistry I	36	5
PHYS1008A	Physics I	18	5
PACY1000A	Pharmaceutical Practice	36	5
FAMH1001A	Health Systems Sciences	18	5
FAHS1898A	First Aid	0	5
FAHS1997A	Computer Literacy	0	5

Course Code	Description	NQF Credits	NQF Level
Year of Study II			
ANAT2031A	Anatomy for Pharmacy Students	24	6
PHSL2003A	Physiology and Medical Biochemistry I	48	6
PACY2000A	Pharmaceutical Chemistry I	36	6
PACY2001A	Pharmaceutics I	36	6
PACY2002A	Pharmacy Practice I	18	6
Year of Study III			
ANAP2000A	Pathology	12	6
CMID2001A	Medical Microbiology	12	6
PACY3000A	Pharmaceutical Chemistry II	18	7
PACY3004A	Clinical Pharmacy I	36	7
PACY3002A	Pharmacy Practice II	18	7
PACY3003A	Pharmaceutics II	18	7
PHAR3001A	Pharmacology I	24	7
Year of Study IV			
PACY4001A	Pharmaceutics III	36	8
PACY4002A	Pharmaceutical Chemistry III	18	8
PACY4003A	Special Undergraduate Research Project	30	8
PACY4008A	Clinical Pharmacy II	18	8
PACY4007A	Pharmacy Practice III	36	8
PHAR4003A	Pharmacology II	12	8
FAHS1996A	Emergency Medical Assistance*	0	8

*Emergency Medical Assistance

During the fourth year of study, a *student* shall, to the satisfaction of the *Senate* attend and perform the work of the class in Emergency Medical Assistance (FAHS1996A), and shall attain a standard to the satisfaction of the *Senate* in an *assessment* in this *course*, failing which s/he shall not be permitted to qualify for the award of the degree.

e) Bachelor of Science in Occupational Therapy

Programme Code: MFA03	**NQF Exit Level: 8**
Plan Code: MPAOCT20	**Total NQF Credits: 558**

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
APES1000A	Introduction to Medical Science	18	5
CHEM1028A	Chemistry	18	5

Course Code	Description	NQF Credits	NQF Level
OCCT1000A	Fundamentals of Occupational Science and Occupational Therapy I	36	5
PHYS1008A	Physics I	18	5
PSYC1004A	Basic Principles of Group and Individual Psychology I	18	5
PSYC1007A	Introduction to Psychology I	18	5
SOCL1012A	Human Behavioural Sciences I	18	5
FAHS1898A	First Aid	0	5
FAHS1997A	Computer Literacy	0	5
Year of Study II			
ANAT2033A	Anatomy for Physiotherapy and Occupational Therapy Students	48	6
OCCT2000A	Fundamentals of Occupational Science and Occupational Therapy II	48	6
PHSL2003A	Physiology and Medical Biochemistry I	48	6
Year of Study III			
OCCT3000A	Occupational Therapy II applied to Physical Conditions	30	7
OCCT3001A	Occupational Therapy II applied to Psychiatric Conditions	30	7
OCCT3002A	Medicine and Surgery for Occupational Therapy	12	7
OCCT3003A	Science of Occupation II	24	7
PSMH3000A	Psychiatry in relation to Occupational Therapy	24	7
PSYC2002A	Health Psychology	24	6
PSYC2009A	Research Design and Analysis	24	6
Year of Study IV			
OCCT4000A	Science of Occupation III	30	8
OCCT4001A	Occupational Therapy as applied to Psychiatric Conditions	36	8
OCCT4002A	Occupational Therapy as applied to Physical Conditions	36	8

f) Bachelor of Science in Physiotherapy

Programme Code: MFA02	**NQF Exit Level: 8**
Plan Code: MPAPHY20	**Total NQF Credits: 576**

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
APES1000A	Introduction to Medical Science	18	5
CHEM1029A	Chemistry I	18	5
PHST1000A	Introduction to Physiotherapy	36	5

Course Code	Description	NQF Credits	NQF Level
PHYS1009A	Physics I	18	5
PSYC1004A	Basic Principles of Group and Individual Psychology I	18	5
PSYC1007A	Introduction to Psychology I	18	5
SOCL1012A	Human Behavioural Sciences	18	5
FAHS1898A	First Aid	0	5
FAHS1997A	Computer Literacy	0	5
Year of Study II			
ANAT2033A	Anatomy for Physiotherapy and Occupational Therapy Students	48	6
PHST2000A	Physiotherapy I	48	6
PHSL2003A	Physiology and Medical Biochemistry I	48	6
Year of Study III			
PHAR3002A	Pharmacology	24	7
PHST3000A	Physiotherapy II	24	7
PHST3001A	Rehabilitation I	24	7
PHST3002A	Clinical Physiotherapy I	42	7
PHST3003A	General Medicine and Surgery	12	7
PHST3004A	Research Methodology Part I	24	7
Year of Study IV			
PHST2001A	Management for Therapists	12	6
PHST4000A	Physiotherapy III	18	8
PHST4001A	Rehabilitation II	18	8
PHST4002A	Clinical Physiotherapy II	72	8
PHST4004A	Research Methodology Part II	18	8

7.1.3 Progression and Completion Rules

7.1.3.1 Credits and exemption rules

a) Credits

i) Except as provided in (ii) below, a *student* registered in any year of study shall obtain *credit* for any *course* that s/he completes.

ii) A *student* registered for any year of study for the degree, Bachelor of Dental Science or for the fourth year of study for the degree of Bachelor of Pharmacyand Bachelor of Science in Physiotherapy and for the third or fourth year of study for the degree of Bachelor of Science in Occupational Therapy shall obtain *credit* in all of the *courses* prescribed for the year of study which s/he completes in the same *academic year*: Provided that a *student* who fails one or more *courses* and is required to repeat the year may be exempted by the *Senate* from re-attendance at and re-*assessment*/ re-*examination* in a non-clinical *course* and from the final re-*assessment* in any clinical *course* in which s/he has, at the ordinary *examination* or at any deferred or

supplementary *examination* for which s/he has been permitted to present herself/himself in terms of the rules, attained such higher standard than the pass standard as may be determined by the *Senate**, but such *exemption* shall remain in effect only until the end of the *examination* session of the following *academic year*, for the degree of Bachelor of Pharmacy, and, in the case of the fourth year of study for the degrees Bachelor of Science in Physiotherapy and Bachelor of Science in Occupational Therapy for six months thereafter.

iii) A *student* registered for the first year of the degree, Bachelor of Nursing shall not be permitted to proceed to the *course* ANAT2005A until s/he has passed, or has obtained *credit*/ *exemption* for the *course* APES1000A.

M7.1.3.1 (a)(ii)

***Normally this will be 60%.**

b) Exemption

No *student* may be exempted from any part of the GEMP, and a *student* may therefore not be admitted to the degree MBBCh beyond the third year of study (MBBCh III/GEMP I).

7.1.3.2 Academic progression

a) MBBCh — First year to fifth year of study

Except as provided in the rules for any *qualification*, a *student* shall not be admitted to a year of study until s/he has completed the *courses* prescribed for the preceding year of study and satisfied such further requirements, if any, as are prescribed by, or determined in terms of, the rules.

Provided that, in order to proceed to the fifth year of study of 8.1.MBBCh/GEMP III a *student* must have satisfactorily completed the prescribed *courses* for the third and fourth years of study of the MBBCh/GEMP I and II, and the integrated *assessment* at the end of the fourth year of study of the MBBCh/GEMP II.

b) MBBCh/GEMP — Sixth year of study

A *student* may proceed to the sixth year of study of MBBCh/GEMP IV if the Integrated Practice topic, and all or six of the seven rotation topics, for the *course* Integrated Clinical Medicine A (SCMD5000A) have been passed.

7.1.3.3 Assessment

a) Assessments for Bachelor of Dental Science (MFA08)

The *assessment* of the *courses* listed in Rule 7.1.2.3 (a) may comprise:

i) a variety of *assessments*, such as written tests, assignments, projects, etc.; and

ii) practical and/or clinical *assessments*, whichever is appropriate; and

iii) an oral *assessment* if the *Senate* so decides in the case of a particular *student*.

b) Supplementary examinations for BDS (MFA08); MBBCh (MFA00); BNurs (MFA07); BPharm (MFA04); BSc(OT) (MFA03); BSc(Physiotherapy) (MFA02)*

***Supplementary *examinations* for MBBCh I and II, BDS I, II, III and IV, BNursing I, II and III, BPharm I, II, III and IV, BSc(OT) I, II and lll, and BSc(Physio) I, II and lll will normally be held in December.**

i) A *student* who has failed to complete one or more of the *courses* in her/his *curriculum* for the relevant year of study indicated in the following table may be permitted by the *Senate* to present herself/himself for a supplementary *examination* in the *course* or *courses* that s/he has failed to complete, as set out in the Faculty Standing Orders for *qualifications*.

BDS	MBBCh	BNurs	BPharm	BSc(OT)	BSc(Physio)
1st, 2nd, 3rd & 4th	1st & 2nd	1st, 2nd & 3rd	1st, 2nd, 3rd & 4th	1st, 2nd & 3rd	1st, 2nd & 3rd

c) Supplementary examination for BPharm – fourth year of study

i) A *student* who fails to complete a *course* in June may be permitted by the *Senate* to present herself/himself for supplementary *examination* in that *course* in the second half of the year.

ii) In respect of the *examinations* conducted in November, a *student* who completes all but one *course* prescribed for the fourth year of study may be permitted by the *Senate* to present herself/himself for supplementary *examination* in the *courses* that s/he has failed to complete. In a case considered by it to be exceptional, the *Senate* may permit a *student* who completes two *courses* prescribed for the fourth year of study, to present herself/himself for supplementary *examination* in the *courses* that s/he has failed to complete.

7.1.3.4 Repeating courses and re-examination

a) BDS (refer also to Rule 7.1.3.1)

The provisions of the following sub-paragraphs are without prejudice to the operation of the minimum requirements of study.

i) A *student* shall be required to complete, to the satisfaction of the *Senate*, the requirements for each of the two components for the *course* MEDC4003A General Medicine and Paediatrics for Dental *Students*.

ii) A *student* who has attained an aggregate of less than 50 percent of the final mark for the *course* General Medicine and Paediatrics for Dental *Students* (MEDC4003A) shall not be required to attend and complete any component in which s/he may have obtained a minimum of 60 percent of the marks allocated to that component, but should s/he fail to complete the remaining topic in the ensuing *academic year*, such *exemptions* will fall away, and s/he will be required to re-attend and complete both components.

iii) A *student* who fails more than three of the *courses* prescribed for the fifth year of study shall be required to repeat the fifth year of study.

iv) A *student* who fails three or fewer than three of the *courses* prescribed for the fifth year of study may be permitted to present herself/himself for re-*assessment* in the *course* or *courses* that s/he has failed to complete on the next occasion on which the *assessments* for the fifth year of study are held, normally within the first six months of the following year, provided that until s/he has completed all the *courses* prescribed for the fifth year of study s/he shall be required to attend and present herself/himself for *assessment* in all such *courses* except those in which s/he has obtained *exemption* in terms of Rule 7.1.3.1.

v) A *student* who fails to complete all the prescribed *courses* by the end of the final year shall not, save by the permission of the *Senate*, be permitted to re-register for the final year of study.

b) MBBCh

i) A *student* who, on first presenting herself/himself for the final *assessment* for the topic, Integrated Practice in the *course* Integrated Clinical Practice A for the fifth year of study or for the final *assessment* for the topic, Integrated Practice in the *course* Integrated Clinical Practice B for the sixth year of study, fails this *assessment*, shall be permitted to present herself/himself for re-*assessment* on the next occasion that these integrated *assessments* are held.

In the case of the fifth year of study, the re-assessment will take place in January of the succeeding year. In the case of the sixth year of study, the re-assessment will be scheduled for April and June.

ii) A *student* who fails the prescribed *course* for the fifth year of study or the sixth year of study more than once shall not, unless otherwise permitted by the *Senate*, be permitted to re-register for the fifth year or the final year of study.

c) BNurs

The provisions of the following sub-paragraphs are without prejudice to the operation of the minimum requirements of study.

i) A *student*, who, at the end of the *examination* session of the fourth year of study for the degree, has completed none of the *courses* prescribed for the fourth year of study, shall be required to repeat the fourth year of study before presenting herself/himself again for *assessment*.

ii) A *student* who completes one or two or three of the *courses* prescribed for the fourth year of study may be permitted to present herself/himself for re- *examination* in the *course* or *courses* that s/he has failed to complete on the next occasion on which the *examinations* for the fourth year of study are held and, subject to paragraph (iii) hereof, on successive occasions thereafter.

iii) A *student* who fails to complete all the prescribed *courses* by the end of the final year shall not, unless otherwise permitted by the *Senate*, be permitted to re- register for the final year of study.

d) BPharm; BSc(OT) and BSc(Physiotherapy)

The provisions of the following sub-paragraphs are without prejudice to the operation of the minimum requirements of study.

i) A *student* who, at the end of the *examination* session of the fourth year of study for the degree has completed none of the *courses* prescribed for the fourth year of study shall be required to repeat the fourth year of study before presenting herself/himself again for *assessment*.

ii) A *student* who completes one or two of the *courses* prescribed for the fourth year of study may be permitted to present herself/himself for re-*assessment* in the *course* or *courses* that s/he has failed to complete on the next occasion on which the *examinations* for the fourth year of study are held, and subject to paragraph (iii) hereof, on successive occasions thereafter: Provided that until s/he has obtained *credit* in all the *courses* prescribed for the fourth year of study s/he may be required to attend and present herself/himself for *assessment* in all such *courses* excepting those in which s/he has obtained *exemption* in terms of Rule 7.1.3.1.

iii) A *student* who fails to complete all the prescribed *courses* by the end of the following *academic year* shall not, unless otherwise permitted by the *Senate*, be permitted to re-register for the final year of study.

7.1.3.5 Minimum requirements of study

a) A *student* shall present evidence to the satisfaction of the *Senate* that s/he has attended satisfactorily the *courses* for which attendance is required in terms of these rules, and shall hold such hospital appointments during the teaching terms and during vacations as may from time to time be determined by the *Senate* and shall faithfully perform all duties required of her/him in this connection and perform such other work and pursue such other activity as may be required by and in terms of the rules. Non-compliance with this requirement will result in failure.

b) Subject to the provisions of Rule G13.3, a *student* who has failed to complete any *course* or *courses* included in her/his *curriculum* for a year of study, and who has been permitted by or the *Senate* to renew her/his registration to complete any *course* or *courses* included in her/his *curriculum* for that year of study which s/he has failed to complete, may be disqualified from presenting herself/himself for *assessment* in any such *course* or *courses* unless and until any requirement or condition, that may be laid down by the *Senate* as a requirement or condition of renewal of registration in her/his case, has been satisfied.

c) The minimum requirements of study prescribed for *students* are set out below. A *student* who does not meet the minimum requirements of study may be refused permission by the *Senate* to renew her/his registration. If, however, a *student* is permitted to renew her/his registration after having failed to satisfy the minimum requirements of study, s/he may be required to satisfy these and further conditions as the *Senate* may determine in her/his case.

d) Subject to the provisions relating to the change of rules, a *student* registered in terms of the current rules must pass –

i) BDS

All years of study: All *courses* and complete all other requirements that may be made in the rules pertaining to these years of study.

ii) MBBCh

First and second years of study: All *courses*.

Third, fourth, fifth and sixth years of study: All *courses* and complete all other requirements that may be made in the rules pertaining to these years of study.

iii) BNursing

All years of study: All *courses*.

iv) BPharm

First, second and third years of study: All *courses*.

Fourth year of study: All *courses* and complete all other requirements that may be made in the rules pertaining to that year of study.

v) BSc(Occupational Therapy)

All years of study: All *courses*.

vi) BSc(Physiotherapy)

All years of study: All *courses*.

7.2 Professional Status and Recognition of Degrees

7.2.1 Declaration by graduands

Prior to being admitted to a *qualification* a graduand will be called on to subscribe to the following declaration:

'As a graduand of the University of the Witwatersrand I do solemnly declare:

That I will exercise my profession to the best of my knowledge and ability for the safety and welfare of all persons entrusted to my care and for the health and well-being of the community.

That I will not knowingly or intentionally do anything or administer anything to them to their hurt or prejudice.

That I will not permit consideration of religion, nationality, politics, race, gender, sexual orientation, lifestyle, economic status, or social standing to interfere with my duty to my patient.

That I will not improperly divulge anything I have learned in my professional capacity.

That I will endeavour at all times to defend my professional independence against improper interference.

That I will respect the autonomy of my patients including appropriately obtaining their informed consent for investigation and treatment.

That I will conduct research on patients only in accordance with correct ethical principles and the approval of a formally constituted ethics committee.

That in my relations with patients and colleagues I will conduct myself as becomes a member of an honourable profession.

I make this declaration upon my honour.'

7.3 General Degrees

Qualification Name	Degree Code	NQF Exit Level
Bachelor of Health Sciences (BHSci) **In the fields of:** Biokinetics Biomedical Sciences Health Systems Sciences Nursing Systems Science	MBA05 MFABIOK10 MFABMED10 MFAHESS10 MFANUSS10	7
Bachelor of Oral Health Sciences (BOHSci) **In the track of:** Oral Hygiene	MBA04	7
Bachelor of Clinical Medical Practice (BCMP)	MBA01	7

7.3.1 Admission rules

7.3.1.1 Minimum requirements for admission*

a) Bachelor of Health Sciences in the fields of Biokinetics, Biomedical Sciences, Health Systems Sciences and Nursing Systems Science

i) A pass in Mathematics and English at level 5 on the Scale of Achievement for the *National Senior Certificate (NSC)*, or a pass in Mathematics and English at level 6 on the Scale of Achievement for the *National certificate (Vocational) [NC(V)]* or a pass in Mathematics at the Higher Grade or a standard of a minimum of 60 per cent in Mathematics at the Standard Grade; and

ii) a pass in either Physical Sciences or Life Sciences at level 5 on the Scale of Achievement for the *National Senior Certificate (NSC)*, or a pass in either Physical Sciences or Life Sciences at level 6 on the Scale of Achievement for the *National Certificate (Vocational) [NC(V)]* or a pass at the Higher Grade or a standard of a minimum of 60 per cent at the Standard Grade in a minimum of one of the following subjects: Biology; Physical Sciences or Physiology.

b) Bachelor of Clinical Medical Practice; Bachelor of Oral Health Sciences

i) A pass in Mathematics and English at level 4 on the Scale of Achievement for the *National Senior Certificate (NSC)*, or a pass in Mathematical Literacy at level 7 and English at level 4 on the Scale of Achievement, or a pass in Mathematics and English at level 5 on the Scale of Achievement for the *National Certificate (Vocational) [NC(V)]* or a pass in Mathematics at the Higher Grade or a standard of a minimum of 50 per cent in Mathematics at the Standard Grade; and

ii) a pass in either Physical Sciences or Life Sciences at level 4 on the Scale of Achievement for the *National Senior Certificate (NSC)*, or a pass in either Physical Sciences or Life Sciences at level 5 on the Scale of Achievement for the *National Certificate (Vocational) [NC(V)]* or a pass at the Higher Grade or a standard of a minimum of 50 per cent at Standard Grade in one of the following subjects: Biology; Physical Sciences or Physiology

*** In addition to the minimum requirements as stipulated in Rule 7.3.1.1, all eligible *applicant*s will be required to undertake the National Benchmark Tests.**

7.3.2 Curriculum rules

7.3.2.1 Length of degree

BCMP	BHSci & BOHSci
3 f/t	3 f/t

7.3.2.2 Structure of degree

a) Bachelor of Clinical Medical Practice

Programme Code: MBA01	NQF Exit Level: 7
Plan Code: MPACMP10	Total NQF Credits: 432

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
SCMD1001A	Fundamentals of Medical and Clinical Science	144	5
FAHS1898A	First Aid	0	5
FAHS1997A	Computer Literacy	0	5
Year of Study II			
SCMD2001A	Fundamentals of Clinical Medical Practice	144	6
Year of Study III			
SCMD3003A	Applied Clinical Medical Practice	144	7

b) Bachelor of Health Sciences Fields of Study

The degree is offered in the following fields of study:

Biokinetics	: (MFABIOK10)
Biomedical Sciences	: (MFABMED10)
Health Systems Sciences	: (MFAHESS10)
Nursing Systems Science	: (MFANUSS10)

Field of Biokinetics

Programme Code: MBA05	**NQF Exit Level: 7**
Plan Code: MFABIOK10	**Total NQF Credits: 432**

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
APES1001A	Introduction to Medical Sciences I	36	5
CHEM1048A	Chemistry I	36	5
PHYS1024A	Physics I	36	5
FAMH1001A	Health Systems Sciences	18	5
ELEN1008A	System Dynamics for Health Sciences	18	5
FAHS1898A	First Aid	0	5
FAHS1997A	Computer Literacy	0	5
Year of Study II			
ANAT2020A	Human Anatomy II	48	6
PHSL2004A	Physiology and Medical Biochemistry II	48	6
STHS2000A	Exercise Science II	48	6
Year of Study III			
PHSL3006A	Physiology III	72	7
STHS3000A	Exercise Science III	72	7

Field of Biomedical Sciences

Programme Code: MBA05	**NQF Exit Level: 7**
Plan Code: MFABMED10	**Total NQF Credits: 432**

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
APES1001A	Introduction to Medical Sciences I	36	5
CHEM1048A	Chemistry I	36	5
PHYS1024A	Physics I	36	5
FAMH1001A	Health Systems Sciences	18	5
ELEN1008A	System Dynamics for Health Sciences	18	5

Course Code	Description	NQF Credits	NQF Level
FAHS1898A	First Aid	0	5
FAHS1997A	Computer Literacy	0	5
Year of Study II			
ANAT2020A	Human Anatomy II	48	6
PHSL2004A	Physiology and Medical Biochemistry II	48	6
HAEM2000A	Molecular Medicine II	48	6
Year of Study III			
Two of the following *courses*:			
ANAT3002A	Human Biology III	72	7
ANAT3011A	Medical Cell Biology III	72	7
HAEM3002A	Molecular Medicine III	72	7
PHSL3006A	Physiology III	72	7
PHAR3004A	Pharmacology III	72	7

Field of Health Systems Sciences

Programme Code: MBA05	**NQF Exit Level: 7**
Plan Code: MFAHESS10	**Total NQF Credits: 432**

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
APES1001A	Introduction to Medical Sciences I	36	5
CHEM1048A	Chemistry I	36	5
PHYS1024A	Physics I	36	5
FAMH1001A	Health Systems Sciences	18	5
ELEN1008A	System Dynamics for Health Sciences	18	5
FAHS1898A	First Aid	0	5
FAHS1997A	Computer Literacy	0	5
Year of Study II			
PHSL2006A	Applied Anatomy and Physiology II	48	6
FAMH2006A	Health Systems Sciences II	48	6
COMH2000A	Public Health II	48	6
Year of Study III			
FAMH3004A	Health Systems Sciences III	72	7
COMH3003A	Public Health III	72	7

Field of Nursing Systems Science (In Abeyance)

Programme Code: MBA05	NQF Exit Level: 7
Plan Code: MFANUSS10	Total NQF Credits: 360

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
NRSE1003A	Sociological and Psychological Foundations of Health	40	5
NRSE1004A	Biological Foundations of Health	40	5
NRSE1005A	Health and Illness	40	5
Year of Study II			
NRSE2004A	Homeostasis and Regulation	40	6
NRSE2002A	Applied Microbiology	40	6
NRSE2003A	Clinical Therapeutics for Health Professionals	40	6
Year of Study III			
NRSE3006A	Health Care Systems	40	7
NRSE3007A	Quality in Health Care	40	7
NRSE3005A	Evidence Based Integration	40	7

c) Bachelor of Oral Health Sciences: Oral Hygiene track

Programme Code: MBA04	NQF Exit Level: 7
Plan Code: MPAORH10	Total NQF Credits: 388

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
ANAT1002A	Anatomy, Oral Biology and Physiology for Dental Auxiliaries	36	5
OHSC1002A	Fundamentals of Clinical Oral Health	36	5
OHSC1003A	Behavioural and Social Sciences for Dental Auxiliaries	18	5
OHSC1005A	Oral Microbiology for Dental Auxiliaries	7	5
OPAT1004A	Oral Pathology for Dental Auxiliaries	11	5
FAHS1898A	First Aid	0	5
FAHS1997A	Computer Literacy	0	5
Year of Study II			
OHSC2004A	Integrated Clinical Dentistry for Oral Hygienists	48	6
SCMD1004A	Bioethics for Dental Auxiliaries I	12	6
COMD1001A	Community Dentistry for Dental Auxiliaries	24	6
OHSC2005A	Fundamentals of Clinical Oral Health I	48	6

Course Code	Description	NQF Credits	NQF Level
Year of Study III			
OHSC3005A	Applied Research and Dental Practice Management for Dental Auxiliaries	38	7
SCMD2003A	Bioethics for Dental Auxiliaries II	10	7
COMD2003A	Community Dentistry for Dental Auxiliaries II	24	7
OHSC3006A	Fundamentals of Clinical Oral Health II	76	7

7.3.3 Progression and Completion Rules

7.3.3.1 Assessment

a) Supplementary examinations for BHSci and BOHSci*

***Supplementary *examinations* for BHSci I and II, BOHSci I and II, will normally be held in December. Supplementary *examinations* for BHSci III will normally be held in December or January of the next *academic year*.**

i) A *student* who has failed to complete one or more of the *courses* in her/his *curriculum* for the relevant year of study indicated in the following table may be permitted by the *Senate* to present herself/himself for a supplementary *examination* in the *course* or *courses* that s/he has failed to complete, as set out in the Faculty Standing Orders for *qualifications*.

BHSci	BOHSci
1st, 2nd & 3rd	1st & 2nd 1st & 2nd

7.3.3.2 Minimum requirements of study

a) A *student* shall present evidence to the satisfaction of the *Senate* that s/he has attended satisfactorily the *courses* for which attendance is required in terms of these rules, and shall hold such hospital appointments during the teaching terms and during vacations as may from time to time be determined by the *Senate* and shall faithfully perform all duties required of her/him in this connection and perform such other work and pursue such other activity as may be required by and in terms of the rules. Non-compliance with this requirement will result in failure.

b) Subject to the provisions of Rule G13.3, a *student* who has failed to complete any *course* or *courses* included in her/his *curriculum* for a year of study, and who has been permitted by the Council or the *Senate* to renew her/his registration to complete any *course* or *courses* included in her/his *curriculum* for that year of study which s/he has failed to complete, may be disqualified from presenting herself/himself for *assessment* in any such *course* or *courses* unless and until any requirement or condition, that may be laid down by Council or the *Senate* (or both) as a requirement or condition of renewal of registration in her/his case, has been satisfied.

c) The minimum requirements of study prescribed for *students* are set out below. A *student* who does not meet the minimum requirements of study may be refused permission by the *Senate* to renew her/his registration. If, however, a *student* is permitted to renew her/his registration after having failed to satisfy the minimum requirements of study, s/he may be required to satisfy these and further conditions as the *Senate* may determine in her/his case.

d) Subject to the provisions relating to the change of rules, a *student* registered in terms of the current rules must pass –

i) BCMP - All years of study: All *courses*.

ii) BHSci - All years of study: All *courses*.

iii) BOHSci - All years of study: All *courses*.

7.3.3.3 Declaration by graduands

Prior to being admitted to a *qualification* a graduand for the degree of Bachelor of Clinical Medical Practice and Bachelor of Oral Health Sciences will be called on to subscribe to the following declaration:

'As a graduand of the University of the Witwatersrand I do solemnly declare:

That I will exercise my profession to the best of my knowledge and ability for the safety and welfare of all persons entrusted to my care and for the health and well-being of the community.

That I will not knowingly or intentionally do anything or administer anything to them to their hurt or prejudice.

That I will not permit consideration of religion, nationality, politics, race, gender, sexual orientation, lifestyle, economic status, or social standing to interfere with my duty to my patient.

That I will not improperly divulge anything I have learned in my professional capacity.

That I will endeavour at all times to defend my professional independence against improper interference.

That I will respect the autonomy of my patients including appropriately obtaining their informed consent for investigation and treatment.

That I will conduct research on patients only in accordance with correct ethical principles and the approval of a formally constituted ethics committee.

That in my relations with patients and colleagues I will conduct myself as becomes a member of an honourable profession.

I make this declaration upon my honour.'

8 POSTGRADUATE

8.1 Diplomas

Qualification Name	Programme Code	NQF Exit Level
Postgraduate Diploma in Occupational Therapy	MXA11	8
Postgraduate Diploma in Physiotherapy	MXA14	8
Postgraduate Diploma in Child Health (Community Paediatrics option and Neurodevelopment option)	MXA02	8
Postgraduate Diploma in Health Sciences Education	MXA13	8
Postgraduate Diploma in Health Service Management	MXA06	8
Postgraduate Diploma in Occupational Health	MXA03	8
Postgraduate Diploma in Public Health	MXA00	8
Postgraduate Diploma in Tropical Medicine and Hygiene	MXA08	8

8.1.1 Postgraduate Diploma in Occupational Therapy

8.1.1.1 Admission rules

a) Admission requirements

Any of the following may be admitted by the *Senate* as a *candidate* for the Postgraduate Diploma in Occupational Therapy: Provided that s/he has been registered as an occupational therapist with the Health Professions Council of South Africa, and has been engaged in the practice of occupational therapy for not less than one year in an institution which is approved by the Health Professions Council of South Africa:

i) A Bachelor of Science in Occupational Therapy of the *University*.

ii) A graduate of *any other university* who has satisfied the *Senate* by means of a written or oral test (or both) or by means of any other mode of *assessment* to be determined from time to time by the *Senate* that s/he is qualified to undertake the line of study proposed or research (or both).

iii) A person other than a graduate who has in the manner set out in above satisfied the *Senate*.

8.1.1.2 Curriculum rules

a) Length of programme

The *curriculum* for the Postgraduate Diploma in Occupational Therapy shall extend over not less than two *academic years* of part-time study.

b) Fields of Study

The diploma is offered in the following fields of study:

Neurological Disorders	: (MFANDIS50)
Perceptual Disorders	: (MFAPDIS50)
Psychiatric Disorders	: (MFAPSYD50)

Field of Neurological Disorders

Programme Code: MXA11	**NQF Exit Level: 8**
Plan Code: MFANDIS50	**Total NQF Credits: 145**

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
ANAT5012A	General Neuroanatomy	15	8
PHSL5004A	Applied Neurophysiology	15	8
OCCT5014A	Occupational Science and Models of Practice	15	8
Year of Study II			
OCCT5010A	Occupational Therapy Treatment of Neurological Disorders	50	8
OCCT5013A	Professional Practice and Leadership	50	8

Field of Perceptual Disorders

Programme Code: MXA11	NQF Exit Level: 8
Plan Code: MFAPDIS50	Total NQF Credits: 145

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
ANAT5012A	General Neuroanatomy	15	8
PHSL5004A	Applied Neurophysiology	15	8
OCCT5014A	Occupational Science and Models of Practice	15	8
Year of Study II			
OCCT5011A	Occupational Therapy Treatment of Perceptual Disorders	50	8
OCCT5013A	Professional Practice and Leadership	50	8

Field of Psychiatric Disorders

Programme Code: MXA11	NQF Exit Level: 8
Plan Code: MFAPSYD50	Total NQF Credits: 145

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
ANAT5012A	General Neuroanatomy	15	8
PHSL5004A	Applied Neurophysiology	15	8
OCCT5014A	Occupational Science and Models of Practice	15	8
Year of Study II			
OCCT5012A	Occupational Therapy Treatment of Psychiatric Disorders	50	8
OCCT5013A	Professional Practice and Leadership	50	8

8.1.1.3 Progression and Completion rules

a) Credit, exemption and supplementary examination

i) A *candidate* shall not obtain *credit* in any of the *courses* prescribed for Year of Study I of the *curriculum* unless s/he completes all such *courses* in the same *academic year*: Provided that a *candidate* may be exempted by the *Senate* from re-attendance at or from re-attendance at and re-*examination* in any *course* in which s/he has attained such higher standard than the pass standard as may be determined by the *Senate*, but such *exemption* shall remain in effect only until the end of the *examination* session of the following *academic year*.

ii) A *candidate* who completes a minimum of three of the *courses* prescribed for Year of Study I of the *curriculum* may be permitted by the *Senate* to present herself/himself for supplementary *examination* in the *course* or *courses* that s/he has failed to complete.

iii) A *candidate* who fails to complete the *courses* prescribed for Year of Study I, may be permitted by the *Senate* to renew her/his registration and be required to re-attend and present herself/himself for *re-examination* in all the *courses* prescribed for Year of Study I of the *curriculum*.

b) Award of Qualification

In the case of a *candidate* who has qualified for the diploma, Postgraduate Diploma in Occupational Therapy, the certificate shall bear the appropriate wording indicating the field of specialisation.

8.1.2 Postgraduate Diploma in Physiotherapy

8.1.2.1 Admission rules

a) Admission requirements

Any of the following may be admitted by the *Senate* as a *candidate* for the Postgraduate Diploma in Physiotherapy: Provided that s/he has been registered as a physiotherapist with the Health Professions Council of South Africa, and has been engaged in the practice of physiotherapy for not less than one year in an institution which is approved by the Health Professions Council of South Africa:

i) A Bachelor of Science in Physiotherapy of the University.

ii) A graduate of *any other university* who has satisfied the *Senate* by means of a written or oral test (or both) or by means of any other mode of *assessment* to be determined from time to time by the *Senate* that s/he is qualified to undertake the line of study proposed or research (or both).

iii) A person other than a graduate who has in the manner set out in (ii) above satisfied the *Senate*.

8.1.2.2 Curriculum rules

a) Length of programme

The *curriculum* for the Postgraduate Diploma in Physiotherapy shall extend over not less than one year of full-time study, or two years of part-time study.

b) Fields of Study

The diploma is offered in the following fields of study:

Neuromusculoskeletal Physiotherapy : (MFANMSK50)

Sport and Exercise Physiotherapy : (MFASPEX50)

Field of Neuromusculoskeletal Physiotherapy

Programme Code: MXA14	**NQF Exit Level: 8**
Plan Code: MFANMSK50	**Total NQF Credits: 120**

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
ANAT2013A	Applied Anatomy	15	8
PHSL5003A	Applied General Physiology	15	8
ANAP5002A	Applied Pathology for Physiotherapists	20	8
PHST5006A	Neuromusculoskeletal Physiotherapy	70	8

Field of Sport and Exercise Physiotherapy

Programme Code: MXA14	**NQF Exit Level: 8**
Plan Code: MFASPEX50	**Total NQF Credits: 120**

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
ANAT2013A	Applied Anatomy	15	8
PHSL5003A	Applied General Physiology	15	8
ANAP5002A	Applied Pathology for Physiotherapists	20	8
PHST5005A	Sport and Exercise Physiotherapy	70	8

8.1.2.3 Progression and completion rules

a) Credit, exemption, supplementary examination and re-examination

i) In the case of full-time study, a *candidate* shall not obtain *credit* in any of the *courses* unless s/he completes all such *courses* in the same *academic year* and in the case of part-time study, a *candidate* shall not obtain *credit* in any of the *courses* unless s/he completes a minimum of three such *courses* in the same *academic year*: Provided that a *candidate* may be exempted by the *Senate* from re-attendance at or from re-attendance at and re-*examination* in any *course* in which s/he has attained such higher standard than the pass standard as may be determined by the *Senate*, but such *exemption* shall remain in effect only until the end of the *examination* session of the following *academic year*.

ii) In the case of full-time study, a *candidate* who completes only two of the *courses* and in the case of part-time study, a *candidate* who completes only one of the *courses* may be permitted by the *Senate* to present herself/himself for supplementary *examination* in the *course* or *courses* that s/he has failed to complete.

iii) In a case considered by it to be exceptional, the *Senate* may permit a *candidate* who has passed only one of the *courses* to present herself/himself for supplementary *examination* in the *courses* that s/he has failed to complete.

iv) A *candidate* who fails to complete the *courses* prescribed for Year of Study I, may be permitted by the *Senate* to renew her/his registration and be required to re-attend and present herself/himself for *re-examination* in all the *courses* prescribed for Year of Study I of the *curriculum*.

8.1.3 Postgraduate Diplomas in Child Health (Community Paediatrics) and (Neurodevelopment); Health Service Management; Occupational Health; Public Health and Tropical Medicine and Hygiene

8.1.3.1 Admission rules

a) Admission requirements

Any of the following may be admitted as a *candidate*:

i) A graduate of the *University* who has been awarded one of the following degrees:

Bachelor of Dental Science;

Bachelor of Medicine and Bachelor of Surgery; Bachelor of Nursing;

Bachelor of Science in Occupational Therapy; Bachelor of Pharmacy;

Bachelor of Science in Physiotherapy; Bachelor of Health Sciences with Honours; Bachelor of Science with Honours.

ii) A graduate who has been awarded any other *qualification* the *curriculum* of which extends over a minimum of four years of full-time study, of the *University*, who, in the opinion of the *Senate*, is sufficiently qualified to undertake the field of study proposed.

iii) Any other person, who has satisfied the *Senate*, by means of a written or oral test (or both), or by any other mode of *assessment* to be determined from time to time by the *Senate*, that s/he is sufficiently qualified to undertake the field of study proposed.

8.1.3.2 Curriculum rules

a) Postgraduate Diploma in Child Health

i) Length of programme

The *curriculum* for this diploma shall extend over not less than two *academic years* of part-time study and shall comprise one of the two options listed below:

Year of Study I and Year of Study II will be offered sequentially in alternate years.

Except by permission of the *Senate*, a *candidate* may not proceed to Year of Study II unless s/he has completed all the *courses* prescribed for Year of Study I.

ii) Fields of study

The Diploma is offered in the following fields of study:

Community Paediatrics option

Programme Code: MXA02	**NQF Exit Level: 8**
Plan Code: MFACHCP50	**Total NQF Credits: 120**

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
PAED5014A	Introduction to Child Health	15	8
COMH5033A	Introduction to Health Measurement	15	8
PAED5015A	Child Health I	15	8
Year of Study II			
PAED5016A	Child Health II	15	8
PAED5017A	Maternal Health	15	8
and **three** of the following elective *courses*:			
COMH5032A	Management in Health and Health Services	15	8
COMH5041A	The District Model in Primary Health Care	15	8
COMH5017A	Health Care Financing	15	8
COMH5015A	Project Management for Public Health Practitioners	15	8
PAED5018A	Developmental Problems in Childhood	15	8
PAED5019A	Behavioural Problems in Childhood	15	8

Course Code	Description	NQF Credits	NQF Level
COMH5020A	Health Systems and Decentralisation	15	8
PAED5010A	A Public Health Approach to Perinatal and Paediatric HIV	15	8

Neurodevelopment option

Programme Code: MXA02	**NQF Exit Level: 8**
Plan Code: MFACHND50	**Total NQF Credits: 110**

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
PAED5018A	Developmental Problems in Childhood	15	8
ANAT5012A	General Neuroanatomy	15	8
PHSL5000A	The Principles of Physiology and Medical Biochemistry in relation to the Nervous System	20	8
Year of Study II			
COMH5033A	Introduction to Health Measurement	15	8
PAED5019A	Behavioural Problems in Childhood	15	8
PSMH5004A	Psychological Medicine	15	8
PAED5012A	Paediatric Neurology	15	8

b) Postgraduate Diploma in Health Service Management

i) Length of programme

The *curriculum* for this diploma extends over not less than two years of part- time study.

Programme Code: MXA06	**NQF Exit Level: 8**
Plan Code: MPAHSM50	**Total NQF Credits: 150**

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
COMH5061A	Orientation to Public Health	0	8
COMH5030A	Health Service Management: General Principles	15	8
COMH5032A	Management in Health and Health Services	15	8
COMH5065A	Institutional, Corporate and Hospital Management	15	8
COMH5039A	Human Resource Management and Development	15	8
and **one** of the following elective *courses*:			
COMH5037A	Financial Management and Health Economics	15	8
COMH5043A	Introduction to Management Theory and Practice	15	8
COMH5015A	Project Management for Public Health Practitioners	15	8

Course Code	Description	NQF Credits	NQF Level
Year of Study II			
COMH5160A	Health Systems Organisation and Human Resources	15	8
COMH5031A	Health Service Management: Health Information Systems and Health Facilities	15	8
COMH5066A	Resources, Facilities and Logistics	15	8
and **two** of the following elective *courses*:			
COMH5020A	Health Systems and Decentralisation	15	8
COMH5021A	Health Policy and Policy Analysis	15	8
COMH5081A	Health Legislation and Structure of Health Services	15	8
COMH5064A	Health Service Management: Personnel	15	8
COMH5063A	Health Service Management: Finance	15	8
COMH5082A	Hospital Information Systems	15	8
COMH5077A	Strategic Planning and Management	15	8

c) Postgraduate Diploma in Occupational Health

i) Length of programme

The *curriculum* for this diploma extends over not less than two *academic years* of part-time study.

Programme Code: MXA03	**NQF Exit Level: 8**
Plan Code: MPAOCH50	**Total NQF Credits: 120**

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
COMH5076A	Occupational Health Part I	60	8
Year of Study II			
COMH5079A	Occupational Health Part II	60	8

d) Postgraduate Diploma in Public Health

i) Length of programme

The *curriculum* for this diploma extends over not less than two *academic years* of part-time study.

ii) Fields of study

The diploma is offered in the following fields of study:

Exposure and Health : (MFAEXPH50)

Health Systems and Policy : (MFASHSSP50)

Maternal and Child Health : (MFAMACH50)

Occupational Hygiene:	: (MFAOCCH50)
Rural Health	: (MFARURH50)
Social and Behaviour Change Communication	: (MFASBCC50)

Field of Exposure and Health

Programme Code: MXA00	**NQF Exit Level: 8**
Plan Code: MFAEXPH50	**Total NQF Credits: 150**

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
COMH5061A	Orientation to Public Health	0	8
Five of the following elective *courses*:			
COMH5034A	Introduction to Environmental and Occupational Health	15	8
COMH5166A	Exposure Induced Health Outcome	15	8
COMH5164A	Exposure Science I	15	8
COMH5162A	Fundamentals of Risk Assessment	15	8
COMH5156A	Risk & Safety Management: Systems and Programmes	15	8
COMH5163A	Exposure Control I	15	8
Year of Study II			
COMH5024A	Health Measurement	15	8
COMH5152A	Health and Society	15	8
COMH5153A	Approaches to Population Health	15	8
COMH5154A	Designing Effective Public Health Programmes	15	8
COMH5025A	Health Measurement II	15	8

Field of Health Systems and Policy

Programme Code: MXA00	**NQF Exit Level: 8**
Plan Code: MFAHSSP50	**Total NQF Credits: 150**

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
COMH5061A	Orientation to Public Health	0	8
Five of the following elective *courses*:			
COMH5024A	Health Measurement I	15	8
COMH5025A	Health Measurement II	15	8
COMH5152A	Health and Society	15	8
COMH5153A	Approaches to Population Health	15	8
COMH5154A	Designing Effective Public Health Programmes	15	8

Course Code	Description	NQF Credits	NQF Level
COMH5070A	Introduction to Health Systems	15	8
Year of Study II			
Five of the following elective *courses*:			
COMH5015A	Project Management for Public Health Practitioners	15	8
COMH5017A	Health Care Financing	15	8
COMH5021A	Health Policy and Policy Analysis	15	8
COMH5038A	Health Policy, Health Care and Development	15	8
COMH5043A	Introduction to Management Theory and Practice	15	8
COMH5071A	Health Systems Evaluation and Research	15	8
COMH5069A	HIV/AIDS and Health Systems	15	8
COMH5160A	Health Systems Organisation and Human Resources	15	8

Field of Maternal and Child Health

Programme Code: MXA00	**NQF Exit Level: 8**
Plan Code: MFAMACH50	**Total NQF Credits: 150**

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
COMH5061A	Orientation to Public Health	0	8
Five of the following elective *courses*:			
COMH5024A	Health Measurement I	15	8
COMH5025A	Health Measurement II	15	8
COMH5152A	Health and Society	15	8
COMH5153A	Approaches to Population Health	15	8
COMH5154A	Designing Effective Public Health Programmes	15	8
PAED5015A	Child Health I	15	8
Year of Study II			
Five of the following elective *courses*:			
COMH5032A	Management in Health and Health Services	15	8
PAED5009A	Maternal and Child Nutrition	15	8
PAED5010A	A Public Health approach to Perinatal and Paediatric HIV	15	8
PAED5011A	Adolescent Health	15	8
PAED5017A	Maternal Health	15	8
PAED5015A	Child Health I	15	8
PAED5016A	Child Health II	15	8

Field of Occupational Hygiene

Programme Code: MXA00	NQF Exit Level: 8
Plan Code: MFAOCCH50	Total NQF Credits: 150

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
COMH5061A	Orientation to Public Health	0	8
Five of the following elective *courses*:			
COMH5024A	Health Measurement I	15	8
COMH5025A	Health Measurement II	15	8
COMH5152A	Health and Society	15	8
COMH5153A	Approaches to Population Health	15	8
COMH5154A	Designing Effective Public Health Programmes	15	8
COMH5034A	Introduction to Environmental and Occupational Health	15	8
Year of Study II			
Five of the following elective *courses*:			
COMH5072A	Risk Assessment and Management	15	8
COMH5007A	Measurement of Hazardous Substances	15	8
COMH5074A	Ergonomics and Physical Agents	15	8
COMH5075A	Control of Workplace Hazards	15	8
COMH5073A	Physical and Biological Hazards and Occupational Safety	15	8
COMH5011A	Occupational Hygiene Field Work, Health and Safety Legislation	15	8
COMH5032A	Management in Health and Health Services	15	8
COMH5060A	Occupational and Environmental Health I	15	8
FAMH5005A	Development of Rural Health Services – Strategies and Approaches	15	8

Field of Rural Health

Programme Code: MXA00	NQF Exit Level: 8
Plan Code: MFARURH50	Total NQF Credits: 150

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
COMH5061A	Orientation to Public Health	0	8
Five of the following elective *courses*:			
COMH5024A	Health Measurement I	15	8
COMH5025A	Health Measurement II	15	8

Course Code	Description	NQF Credits	NQF Level
COMH5152A	Health and Society	15	8
COMH5153A	Approaches to Population Health	15	8
COMH5154A	Designing Effective Public Health Programmes	15	8
FAMH5002A	The Rural Health Care Context	15	8
Year of Study II			
Five of the following elective *courses*:			
COMH5032A	Management in Health and Health Services	15	8
FAMH5006A	Community Oriented Primary Care	15	8
FAMH5002A	The Rural Health Care Context	15	8
FAMH5005A	Development of Rural Health Services – Strategies and Approaches	15	8
FAMH5001A	Quality Improvement in Rural Health Care	15	8
FAMH5003A	The Health of Rural People – Epidemiology and Burden of Disease	15	8
FAMH5004A	Management of District Hospitals	15	8

Field of Social and Behaviour Change Communication

Programme Code: MXA00	**NQF Exit Level: 8**
Plan Code: MFASBCC50	**Total NQF Credits: 150**

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
COMH5061A	Orientation to Public Health	0	8
Five of the following elective *courses*:			
COMH5152A	Health and Society	15	8
COMH5153A	Approaches to Population Health	15	8
COMH5154A	Designing Effective Public Health Programmes	15	8
COMH5024A	Health Measurement I	15	8
COMH5156A	Planning and Implementing Social and Behaviour Change Communication	15	8
COMH5158A	Integration of Qualitative and Quantitative Research Methods	15	8
Year of Study II			
Five of the following elective *courses*:			
COMH5150A	Applying Social and Behaviour Change Theory to Practice	15	8
COMH5157A	Social and Behaviour Change Communication Approaches	15	8

Course Code	Description	NQF Credits	NQF Level
COMH5151A	Communication, Media and Society	15	8
COMH5156A	Planning and Implementing Social and Behaviour Change Communication	15	8
COMH5159A	Research, Monitoring and Evaluation	15	8
COMH5158A	Integration of Qualitative and Quantitative Research Methods	15	8
COMH5127A	Advocacy Skills for Promoting Equity	15	8
COMH5130A	Sexual and Reproductive Rights and International and National Legislation	15	8
COMH5057A	Strategies in Health Promotion	15	8
COMH5032A	Management in Health and Health Services	15	8

iii) *Assessments*

The *assessment* in the *courses* for Year of Study I and II shall be written, oral, and practical, by continuous *assessment* or by a combination of these methods as the *Senate* may determine in each case.

e) Postgraduate Diploma in Tropical Medicine and Hygiene

i) Length of programme

The *curriculum* extends over one year of full-time study.

Programme Code: MXA08	**NQF Exit Level: 8**
Plan Code: MPATMH50	**Total NQF Credits: 125**

Course Code	Description	NQF Credits	NQF Level
CMID5007A	Parasitology	25	8
CMID5005A	Tropical Pathology	25	8
CMID5003A	Tropical Medicine	25	8
CMID5004A	Tropical Public Health	25	8
CMID5006A	Microbiology, including Bacteriology, Virology, Mycology, Immunology and Epidemiology	25	8

8.1.3.3 Progression and completion rules

a) Credit rule

i) A *candidate* shall obtain *credit* in any of the *courses* prescribed for Year of Study I and II: Provided that s/he has successfully completed all requirements for the *course* or *courses* and with the approval of the *Senate*.

ii) A *candidate* shall not obtain *credit* in any of the *courses* prescribed for any part of a diploma unless s/he completes all such *courses* in the same *academic year*.

iii) A *candidate* who has been permitted to renew her/his registration for a part of a diploma, may be exempted by the *Senate* from re-attendance at and *re-examination* in any *course* in which s/he has attained such higher standard than the pass standard as may be determined by the *Senate**.

Any such *exemption* shall remain in effect only until the end of the *examination* session of the following *academic year*.

Rule 8.1.3.3 (a)(iii)

***Normally this will be 60%.**

b) Supplementary examination

i) A *candidate* who completes all but one of the *courses* prescribed for any part of a diploma may be permitted by the *Senate* to present herself/himself for a supplementary *examination* in the *course* that s/he has failed to complete at such time as the *Senate* may determine.

c) Award of diploma

The certificate, of a *candidate* who has qualified for the award of the diploma, shall bear the appropriate wording indicating the field of study (and option if applicable).

d) Conversion of candidature: Postgraduate Diploma in Child Health

A *candidate* who has completed all the coursework requirements for the Postgraduate Diploma in Child Health, and who wishes to register for the degree, Master of Science in Medicine in the field of Child Health may, by permission of the *Senate*, proceed in terms of the rules for the degree. Such *candidate* shall, before the degree is conferred upon her/him, surrender the Postgraduate Diploma.

e) Conversion of candidature: Postgraduate Diploma in Public Health

A *candidate* who has completed all the coursework requirements for the Postgraduate Diploma in Public Health, and who wishes to register for the degree, Master of Public Health may, by permission of the *Senate*, proceed in terms of the rules for this degree. Such *candidate* shall, before the degree is conferred upon her/him, surrender the Postgraduate Diploma in Public Health.

8.1.4 Postgraduate Diploma in Health Sciences Education (MXA13)

8.1.4.1 Admission rules

a) Admission requirements

Any of the following may be admitted by the *Senate* as a *candidate* for the Postgraduate Diploma in Health Sciences Education provided that s/he has a minimum of two years of relevant teaching experience in a health sciences related field:

i) A graduate of this or any other University who has been awarded one of the following degrees:

Bachelor of Dental Science;

Bachelor of Medicine and Bachelor of Surgery;

Bachelor of Nursing;

Bachelor of Science in Occupational Therapy;

Bachelor of Pharmacy;

Bachelor of Science in Physiotherapy;

Bachelor of Arts in Speech and Hearing Therapy;

Bachelor of Health Sciences with Honours.

ii) A graduate who has been awarded any other *qualification*, the *curriculum* of which extends over not less than four years of full-time study, of this or *any other university*, and who, in the opinion of the *Senate*, is sufficiently qualified to undertake the field of study proposed.

iii) Any other person, who has satisfied the *Senate*, by means of a written or oral test (or both), or by any other mode of *assessment* to be determined from time to time by the *Senate*, that s/he is sufficiently qualified to undertake the field of study proposed.

8.1.4.2 Curriculum rules

a) Length of programme

The *curriculum* for the Postgraduate Diploma in Health Sciences Education extends over not less than one year of full-time study, or two years of part-time study.

Programme Code: MXA13	**NQF Exit Level: 8**
Plan Code: MPAHSE50	**Total NQF Credits: 120**

Course Code	Description	NQF Credits	NQF Level
SCMD5001A	Theories of Teaching and Learning	30	8
SCMD5002A	Teaching Methodologies for Health Science Education	30	8
SCMD5003A	Essentials of Assessment in Health Science Education	30	8
SCMD5004A	Curriculum Design for Health Science Education	30	8

8.1.4.3 Progression and completion rules

a) Credit and supplementary examination

i) A *candidate* shall obtain *credit* in any *course* that s/he completes, to the satisfaction of *Senate*.

ii) A *candidate* who completes one or two *courses* included in his/ her *curriculum* to the satisfaction of *Senate* may be permitted by the *Senate* to present herself/himself for supplementary *examination* in the *course* or *courses* that s/he has failed to complete.

8.2 General Degrees

Qualification Name	Degree Code	NQF Exit Level
Bachelor of Health Sciences Honours – BHSci(Hons) **In the fields of:** Anatomical Pathology Bioethics and Health Law	MHA00 MFAANAP40 MFABAHL40	8
Biokinetics Chemical Pathology Clinical Microbiology & Infectious Diseases Exercise Science Experimental Physiology Forensic Sciences Human Biology Human Genetics Immunology	MFASTHS40 MFACHEP40 MFACMID40 MFAESCI40 MFAPHSL40 MFAFORM40 MFAHBIO40 MFAHUMG40 MFAIMML40	8

Qualification Name	Degree Code	NQF Exit Level
Medical Cell Biology Molecular Medicine and Medical Biochemistry Neuroscience Pharmacology (Health Sciences track) Pharmacology (Biosciences track) Public Health	MFAANAT40 MFAHAEM40 MFANEUR40 MFAPHSC40 MFAPBIO40 MFAPUBH40	8
Bachelor of Clinical Medical Practice Honours – BCMP(Hons) **In the field of:** Emergency Medicine	MHA01 MFABCMP41	8

8.2.1 Bachelor of Health Sciences with Honours

8.2.1.1 Admission rules

a) Admission requirements

i) Subject to the provisions of Rules 8.2.1.1 (b) and 8.2.1.1 (c) the honours subject/field of study selected by a *candidate* shall be, save by permission of the *Senate*, one in which s/he passed the relevant major *course* or *courses* at this University or *any other university* whose programme has been approved by *Senate*.

ii) A person may not normally be admitted as a *candidate* for Honours in a subject unless s/he has attained a minimum of 60 percent average in the final undergraduate *course* or *courses*; but, in special circumstances, a *student* may be given permission by the *Senate* to be admitted as a *candidate* if s/he has a *qualification* that the *Senate* considers adequate for the purpose of *admission*.

iii) All applications for *admission* to the Bachelor of Health Sciences Honours are assessed on an individual basis taking into account past experience and education. In special circumstances, a *student* may be given permission by the *Senate* to be admitted as a *candidate* if s/he has a *qualification* that the *Senate* considers adequate for the purpose of *admission*.

iv) Any one of the following may be admitted by the *Senate* as a *candidate* for the degree, Bachelor of Health Sciences Honours:

A. A Bachelor of Health Science of the University: Provided that, by special permission of the *Senate*, a person who has obtained *credit* in all but one of the *courses* contained in her/his programme for the degree, Bachelor of Health Sciences may be admitted as a *candidate* for the degree, Bachelor of Health Sciences with Honours and be registered concurrently for the degree, Bachelor of Health Sciences: Provided further that such *candidate* shall not be eligible to

qualify for the award of the Bachelor of Health Sciences Honours until s/he has obtained *credit* in the *course* outstanding for the degree, Bachelor of Health Sciences.

B. A Bachelor of Health Sciences of any other university.

C. A graduate of the University who holds a *qualification* in another faculty, if the *Senate* has determined that the academic discipline in which the *qualification* was obtained is relevant to the Honours subject for which s/he wishes to register.

D. A *student* may be admitted to the Bachelor of Health Sciences Honours if they have completed MBBCh III or MBBCh IV. They should have a mark of a minimum of 60 percent in the second year subject of relevance to the Honours and a minimum of 70 percent in the integrated *course* or *courses* Basic Medical and Human Sciences A or both A and B in the case of *admission* from MBBCh IV.

b) Requirements for admission to fields of study

The following requirements are prescribed for *admission* to particular subjects. Except with the permission of the *Senate*, an *applicant* shall not be admitted as a *candidate* for the Honours degree in the s ubjects listed under A unless s/he has obtained *credit* in a *course* or *courses* listed under B, or equivalent as acceptable to the *Senate*.

A. Field of Study	B. Prerequisites
Anatomical Pathology	A second-class pass in a minimum of one biological discipline as a major.
Bioethics and Health Law	Successful completion of any bachelors' degree with a minimum of 65% average in the final undergraduate *course* or *courses*.
Biokinetics	Exercise Science III or Human Movement Science III, or has obtained *credit* at another university in a *course* which, in the opinion of the *Senate* represents an equivalent standard.
Chemical Pathology	A second-class pass in a minimum of one biological discipline as a major.
Clinical Microbiology & Infectious Diseases	A second-class pass in a minimum of one biological discipline as a major.
Exercise Science	Exercise Science III, or has obtained *credit* at another university in a *course* which, in the opinion of the *Senate* represents an equivalent standard.
Experimental Physiology	Physiology III or its equivalent, or has obtained *credit* at another university in a *course* which, in the opinion of the *Senate* represents an equivalent standard.
Forensic Sciences	A second-class pass in a minimum of one biological discipline as a major.
Human Biology	A second-class pass in a minimum of one biological discipline as a major including a major level *course* in anatomy.
Human Genetics	A second-class pass in a minimum of one biological discipline as a major.
Medical Cell Biology	A second-class pass in a minimum of one biological discipline as a major.
Molecular Medicine and Medical Biochemistry	A second-class pass in a minimum of one biological discipline as a major.
Neuroscience	A second-class pass in a minimum of one biological discipline as a major.
Pharmacology (Health Sciences track)	A second-class pass in Pharmacology III, or its equivalent, or has obtained *credit* at another university in a *course* which, in the opinion of the *Senate* represents an equivalent standard.
Pharmacology (Biosciences track)	A second-class pass in one of the following: Human Biology, Anatomy, Psychology, Physiology, Microbiology, Genetics, Chemistry, Zoology, Botany or Biochemistry or one of the subjects in the Animal, Plant and Environmental Sciences. Pharmacology *course* not deemed an equivalent standard to PHAR3004A.

8.2.1.2 Curriculum rules

a) Length of programme

The *curriculum* for the Bachelor of Health Sciences with Honours extends over not less than one year of full-time study, or two years of part-time study.

b) Fields of study

The degree is offered in the following fields of study:

Anatomical Pathology : (MFAANAP40)
Bioethics and Health Law : (MFABAHL40)
Biokinetics : (MFASTHS40)
Chemical Pathology : (MFACHEP40)
Clinical Microbiology & Infectious Diseases : (MFACMID40)
Exercise Science : (MFAESCI40)
Experimental Physiology : (MFAPHSL40)
Forensic Sciences : (MFAFORM40)
Human Biology : (MFAHBIO40)
Human Genetics : (MFAHUMG40)
Immunology : (MFAIMML40)
Medical Cell Biology : (MFAANAT40)
Molecular Medicine and Medical Biochemistry : (MFAHAEM40)
Neuroscience : (MFANEUR40)
Pharmacology (Biosciences track) : (MFAPBIO40)
Pharmacology (Health Sciences track) : (MFAPHSC40)
Public Health : (MFAPUBH40)

Field of Anatomical Pathology

Programme Code: MHA00	**NQF Exit Level: 8**
Plan Code: MFAANAP40	**Total NQF Credits: 140**

Course Code	Description	NQF Credits	NQF Level
ANAP4001A	Anatomical Pathology Honours Coursework	80	8
ANAP4002A	Anatomical Pathology Honours Research Essay	60	8

Field of Bioethics and Health Law

Programme Code: MHA00	**NQF Exit Level: 8**
Plan Code: MFABAHL40	**Total NQF Credits: 140**

Course Code	Description	NQF Credits	NQF Level
SCMD4001A	Bioethics and Health Law Honours Coursework	70	8
SCMD4002A	Bioethics and Health Law Honours Research Essay	70	8

Field of Biokinetics

Programme Code: MHA00	NQF Exit Level: 8
Plan Code: MFASTHS40	Total NQF Credits: 140

Course Code	Description	NQF Credits	NQF Level
STHS4002A	Health, Wellness and Practice Management	18	8
STHS4003A	Rehabilitation of Chronic Diseases and Disabilities	18	8
STHS4004A	Special Populations and Disability in Sport	18	8
STHS4005A	Orthopaedic Conditions and Rehabilitation	18	8
STHS4007A	Biokinetics Honours Research Methodology	18	8
STHS4006A	Research Essay Biokinetics Honours	50	8

Field of Chemical Pathology

Programme Code: MHA00	NQF Exit Level: 8
Plan Code: MFACHEP40	Total NQF Credits: 140

Course Code	Description	NQF Credits	NQF Level
CHEP4003A	Chemical Pathology Honours Coursework	70	8
CHEP4004A	Chemical Pathology Honours Research Essay	70	8

Field of Clinical Microbiology & Infectious Diseases

Programme Code: MHA00	NQF Exit Level: 8
Plan Code: MFACMID40	Total NQF Credits: 140

Course Code	Description	NQF Credits	NQF Level
CMID4001A	Clinical Microbiology & Infectious Diseases Honours Coursework	70	8
CMID4002A	Clinical Microbiology & Infectious Diseases Honours Research Essay	70	8

Field of Exercise Science

Programme Code: MHA00	NQF Exit Level: 8
Plan Code: MFAESCI40	Total NQF Credits: 120

Course Code	Description	NQF Credits	NQF Level
STHS4013A	Concepts and Applications of the Exercise Sciences	15	8
STHS4009A	Strength and Conditioning Physiology	15	8
STHS4011A	Strength and Conditioning Programme Design	20	8

Course Code	Description	NQF Credits	NQF Level
STHS4012A	Periodisation Training for Sports	20	8
STHS4010A	Athlete Testing, Evaluation and Monitoring	15	8
STHS4008A	Research Report	35	8

Field of Experimental Physiology

Programme Code: MHA00	NQF Exit Level: 8
Plan Code: MFAPHSL40	Total NQF Credits: 140

Course Code	Description	NQF Credits	NQF Level
PHSL4005A	Experimental Physiology Honours Coursework	70	8
PHSL4006A	Experimental Physiology Honours Research Essay	70	8

Field of Forensic Sciences

Programme Code: MHA00	NQF Exit Level: 8
Plan Code: MFAFORM40	Total NQF Credits: 144

Course Code	Description	NQF Credits	NQF Level
FORM4003A	Forensic Sciences	90	8
FORM4004A	Forensic Sciences Research Essay	54	8

Field of Human Biology

Programme Code: MHA00	NQF Exit Level: 8
Plan Code: MFAHBIO40	Total NQF Credits: 140

Course Code	Description	NQF Credits	NQF Level
ANAT4013A	Human Biology Honours Coursework	70	8
ANAT4014A	Human Biology Honours Research Essay	70	8

Field of Human Genetics

Programme Code: MHA00	NQF Exit Level: 8
Plan Code: MFAHUMG40	Total NQF Credits: 140

Course Code	Description	NQF Credits	NQF Level
HUMG4005A	Human Genetics Honours Coursework	70	8
HUMG4006A	Human Genetics Honours Research Essay	70	8

Field of Immunology

Programme Code: MHA00	NQF Exit Level: 8
Plan Code: MFAIMML40	Total NQF Credits: 140

Course Code	Description	NQF Credits	NQF Level
IMML4001A	Immunology Honours Coursework	70	8
IMML4002A	Immunology Honours Research Essay	70	8

Field of Medical Cell Biology

Programme Code: MHA00	NQF Exit Level: 8
Plan Code: MFAANAT40	Total NQF Credits: 140

Course Code	Description	NQF Credits	NQF Level
ANAT4015A	Medical Cell Biology Honours Coursework	70	8
ANAT4016A	Medical Cell Biology Honours Research Essay	70	8

Field of Molecular Medicine and Medical Biochemistry

Programme Code: MHA00	NQF Exit Level: 8
Plan Code: MFAHAEM40	Total NQF Credits: 140

Course Code	Description	NQF Credits	NQF Level
HAEM4007A	Molecular Medicine Honours Coursework	70	8
HAEM4008A	Molecular Medicine Honours Research Essay	70	8

Field of Neuroscience

Programme Code: MHA00	NQF Exit Level: 8
Plan Code: MFANEUR40	Total NQF Credits: 140

Course Code	Description	NQF Credits	NQF Level
ANAT4017A	Neuroscience Honours Coursework	84	8
ANAT4018A	Neuroscience Research Essay	70	8

Field of Pharmacology (Biosciences track)

Programme Code: MHA00	NQF Exit Level: 8
Plan Code: MFAPBIO40	Total NQF Credits: 140

Course Code	Description	NQF Credits	NQF Level
PHAR4011A	Pharmacology Biosciences Theory Module	70	8
PHAR4010A	Pharmacology Research Essay	70	8

Field of Pharmacology (Health Sciences track)

Programme Code: MHA00	NQF Exit Level: 8
Plan Code: MFAPHSC40	Total NQF Credits: 140

Course Code	Description	NQF Credits	NQF Level
PHAR4009A	Pharmacology Health Sciences Theory Module	70	8
PHAR4010A	Pharmacology Research Essay	70	8

Field of Public Health

Programme Code: MHA00	NQF Exit Level: 8
Plan Code: MFAPUBH40	Total NQF Credits: 140

Course Code	Description	NQF Credits	NQF Level
COMH4008A	Principles of Epidemiology	20	8
COMH4007A	Principles of Biostatistics	20	8
COMH4002A	Public Health Honours Research Essay	60	8
and **two** of the following elective *courses*:			
COMH4005A	Introduction to Implementation Science	20	8
COMH4001A	Health Equity and the Social Context	20	8
COMH4004A	Gender-Based Analysis (GBA) in Infectious Diseases and Climate Change	20	8
COMH4006A	Planning Health Communication Programmes	20	8
COMH4003A	Approaches to Social and Behaviour Change	20	8
SOSS4015A	Basic Demographic Methods	23	8

8.2.1.3 Progression and Completion Rules

a) Completion of requirements

A *candidate* who has not satisfied all the requirements for the Honours degree, including the submission of required *Research Report*s, by the second Friday in December of the year of her/his registration shall be deemed to have failed the Honours *examination* unless the *Senate* grants her/him an extension of time. If the *Senate* grants her/him an extension of time, s/he will be required to register for the new *academic year*.

b) Re-assessment

A *candidate* who fails an Honours *examination* or part of an *examination* may be permitted by the *Senate* to present herself/himself for the *examination* again or that part of it at such time as the *Senate* may determine. Such a *candidate* may be required to re-attend the *course* or such parts of the *course* as the *Senate* may determine prior to such re-*examination*.

8.2.2 Bachelor of Clinical Medical Practice Honours

8.2.2.1 Admission rules

a) A person may not normally be admitted as a *candidate* for Honours in a subject unless s/he has attained a minimum of 60 percent average in the final undergraduate *course* or *courses*; but, in special circumstances, a *student* may be given permission by the *Senate* to be admitted as a *candidate* if s/he has a *qualification* that the *Senate* considers adequate for the purpose of *admission*.

b) All applications for *admission* to the Bachelor of Clinical Medical Practice Honours are assessed on an individual basis taking into account past experience and education. In special circumstances, a *student* may be given permission by the *Senate* to be admitted as a *candidate* if s/he has a *qualification* that the *Senate* considers adequate for the purpose of *admission*.

c) Any one of the following may be admitted by the *Senate* as a *candidate* for the degree, Bachelor of Clinical Medical Practice Honours:

i) A Bachelor of Clinical Medical Practice of the University: Provided that, by special permission of the *Senate*, a person who has obtained *credit* in all but one of the *courses* contained in her/his programme for the degree, Bachelor of Clinical Medical Practice may be admitted as a *candidate* for the degree, Bachelor of Clinical Medical Practice with Honours and be registered concurrently for the degree, Bachelor of Clinical Medical Practice: Provided further that such *candidate* shall not be eligible to qualify for the award of the Bachelor of Clinical Medical Practice Honours until s/he has obtained *credit* in the *course* outstanding for the degree, Bachelor of Clinical Medical Practice.

ii) A Bachelor of Clinical Medical Practice of *any other university*.

8.2.2.2 Requirements for admission to field of study

A. Field of Study	B. Prerequisites
Emergency Medicine	A second-class pass in Applied Clinical Medical Practice (SCMD3003A) or equivalent.

8.2.2.3 Curriculum rules

a) Length of programme

The *curriculum* for the Bachelor of Clinical Medical Practice with Honours extends over not less than two years of part-time study.

Programme Code: MHA01	**NQF Exit Level: 8**
Plan Code: MFABCMP41	**Total NQF Credits: 140**

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
SCMD4006A	Advanced Clinical Medical Practice in Emergency Medicine I	50	8
SCMD4009A	Theory and Methods in Clinical Medical Research	20	8
Year of Study II			
SCMD4008A	Clinical Medical Research Report	20	8
SCMD4007A	Advanced Clinical Medical Practice in Emergency Medicine II	50	8

8.3 Masters

Qualification Name	Degree Code	NQF Exit Level
Master of Dentistry — MDent **In the specialty of:** Oral Pathology Master of Dentistry in Community Dentistry Master of Dentistry in Maxillo-Facial and Oral Surgery Master of Dentistry in Orthodontics Master of Dentistry in Periodontology and Oral Medicine Master of Dentistry in Prosthodontics	MC014 MFOSOPAT60 MCA52 MCA55 MCA53 MCA54 MCA56	9
Master of Medicine in Anaesthesia	MCA21	9
Master of Medicine in Anatomical Pathology	MCA22	9
Master of Medicine in Cardio-Thoracic Surgery	MCA23	9
Master of Medicine in Chemical Pathology	MCA24	9
Master of Medicine in Clinical Pathology	MCA25	9
Master of Medicine in Community Health **In the fields of:** Occupational Medicine Public Health Medicine	MCA58 MFAOCCM60 MFAPUHM60	9
Master of Medicine in Dermatology	MCA26	9
Master of Medicine in Diagnostic Radiology	MCA27	9
Master of Medicine in Emergency Medicine	MCA28	9
Master of Medicine in Family Medicine	MCA29	9
Master of Medicine in Forensic Pathology	MCA30	9
Master of Medicine in Haematology	MCA31	9
Master of Medicine in Internal Medicine	MCA32	9
Master of Medicine in Medical Genetics	MCA33	9
Master of Medicine in Microbiology	MCA34	9
Master of Medicine in Neurology	MCA36	9
Master of Medicine in Neurological Surgery	MCA35	9
Master of Medicine in Nuclear Medicine	MCA37	9
Master of Medicine in Obstetrics and Gynaecology	MCA38	9
Master of Medicine in Ophthalmology	MCA40	9
Master of Medicine in Orthopaedic Surgery	MCA41	9
Master of Medicine in Otorhinolaryngology	MCA42	9
Master of Medicine in Paediatric Surgery	MCA43	9
Master of Medicine in Paediatrics	MCA44	9
Master of Medicine in Plastic and Reconstructive Surgery	MCA45	9

Qualification Name	Degree Code	NQF Exit Level
Master of Medicine in Psychiatry	MCA46	9
Master of Medicine in Radiation Oncology	MCA48	9
Master of Medicine in Surgery **In the fields of:** General Surgery Paediatric Surgery	MCA59 MFASURG60 MFAPAES60	9
Master of Medicine in Urology	MCA50	9
Master of Medicine in Virology	MCA51	9
Master of Pharmacy by *Dissertation* — MPharm	MRA03	9
Master of Public Health — MPH **In the fields of:** Exposure and Health Health Economics Health Systems and Policy Maternal and Child Health Occupational Hygiene Rural Health Social and Behaviour Change Communication	MCA17 MFAESCI60 MFAHECN60 MFAHSAP60 MFAMACH61 MFAOCCH62 MFARURH61 MFASBCC61	9
Master of Health Sciences Education by coursework and Research Report – MHSc(Ed)	MCA18	9
Master of Science in Dentistry by *Dissertation* — MSc(Dent) **In the fields of:** Aesthetic Dentistry Community Dentistry Cranio-Mandibular Dysfunction Endodontics Implantology Prosthodontics Maxillo-Facial Radiology Oral Pathology	MRA04 MFAAESD70 MFACOMD70 MFACRMD70 MFAENDO70 MFAIMPLA70 MFAPROS70 MFAMFRA70 MFAOPAT70	9
Oral Medicine Orthodontics Maxillo-Facial Radiology Paedodontics	MFAORAM70 MFAORTD70 MFAMFOS70 MFAPEDO70	9

Qualification Name	Degree Code	NQF Exit Level
Master of Science in Dentistry by coursework and Research Report— MSc(Med)	MCA07	
In the fields of:		
Community Dentistry	MFACMYD60	
Digital Operative Dentistry	MFADOPD60	
Endodontics	MFAENDO60	
Implantology	MFAIMPL60	
Maxillo-Facial Oral Surgery	MFAMFOS60	9
Maxillo-Facial Radiology	MFAMFRA60	
Oral Medicine	MFAORAM60	
Oral Pathology	MFAORPA60	
Orthodontics	MFAORTD60	
Paedodontics	MFAPEDO60	
Prosthodontics	MFAPRST60	
Restorative Dentistry	MFAREST60	
Master of Science in Medicine by *Dissertation* — MSc(Med)	MRA05	
In the fields of:		
Anaesthetics	MFAANAE70	
Anatomical Pathology	MFAANAP70	
Anatomical Sciences	MFAANAT70	
Biokinetics	MFABIOK70	
Chemical Pathology	MFACHEP70	
Clinical and Experimental Pharmacology	MFACEXP70	
Clinical Microbiology and Infectious Diseases	MFACMID70	
Community Health	MFACOMH70	
Critical Care	MFACRIT70	
Diagnostic Radiology	MFARADD70	
Emergency Medicine	MFAEMED70	
Exposure Science	MFAEXSC70	9
Family Medicine	MFAFAMH70	
Forensic Medicine	MFAFORM70	
Haematology and Molecular Medicine	MFAHAEM70	
Health Sciences Education	MFASCMD70	
Human Genetics	MFAHUMG70	
Immunology	MFAIMML70	
Internal Medicine	MFAMEDC70	
Material Science	MFAMATS70	
Microbiology	MFAOMCB70	
Neurosurgery	MFANEUS70	
Nursing	MFANRSE70	
Obstetrics and Gynaecology	MFAOBSG70	
Occupational Therapy	MFAOCCT70	

Qualification Name	Degree Code	NQF Exit Level
Oral Pathology	MFAORPA70	9
Oral Biology	MFAORAB70	
Orthopaedic Surgery	MFAORTS70	
Ophthalmology	MFAOPHT70	
Paediatrics	MFAPAED70	
Pharmacology	MFAPHAR70	
Pharmacy	MFAPACY70	
Physiology	MFAPHSL70	
Physiotherapy	MFAPHST70	
Psychiatry	MFAPSMH70	
Radiation Oncology	MFARASE70	
Rural Health	MFARURH70	
Surgery	MFASURG70	
Therapeutic Sciences	MFASTHS70	
Virology	MFAVIRL70	
Wits Reproductive and HIV Institute	MFAWRHI70	
Master of Science in Medicine by coursework and Research Report — MSc(Med)	MCA08	9
In the fields of:		
Bioethics and Health Law	MFABAHL60	
Biokinetics	MFABIOK60	
Biology and Control of African Disease Vectors	MFABCAD60	
Child Health (Community Paediatrics)	MFACHCP60	
Child Health (Neurodevelopment)	MFACHND60	
Child Life and Paediatric Psychosocial Care	MFACLPP60	
Emergency Medicine	MFAEMRM60	
Exposure Science	MFAEXSC60	
Genetic Counselling	MFAGENC61	
Genomic Medicine	MFAGENM60	
Pharmaceutical Affairs	MFAPHAF60	9
Clinical Pharmacy	MFACPHY60	
Sports Medicine	MFASPOM60	
Sports Science	MFASPSC60	
Vaccinology	MFAVACC61	
Master of Science in Epidemiology — MSc(Epi)	MCA16	9
In the fields of:		
Epidemiology and Biostatistics	MFAEBIO61	
Field Epidemiology	MFAFEPI60	
Infectious Disease Epidemiology	MFAIDEP61	
Public Health Informatics	MFAPHIN60	
Implementation Science	MFAIMPS60	
Biostatistics	MFABIOS60	

Qualification Name	Degree Code	NQF Exit Level
Master of Science in Nursing – MSc(Nursing)		
by *Dissertation*	MRA02	
by coursework and Research Report	MCA15	
In the fields of:		
Advanced Psychiatric Nursing	MFAPSYC61	
Child Nursing	MFACNUR60	
Infection Control	MFAINFC60	9
Intensive Care Nursing	MFAINTC60	
Nephrology Nursing	MFANEPH60	
Nursing Education	MFANRED60	
Occupational Health Nursing	MFANOCH60	
Oncology and Palliative Care	MFAONCP60	
Trauma and Emergency Nursing	MFATREM60	
Master of Science in Occupational Therapy –MSc(Occupational Therapy)		
by *Dissertation*	MRA01	
by coursework and Research Report	MCA11	9
In the fields of:		
Neurological Disorders		
Perceptual Disorders		
Psychiatric Disorders		
Master of Science in Physiotherapy — MSc(Physiotherapy)		
by *Dissertation*	MRA00	
by coursework and Research Report	MCA57	
In the fields of:		
Community Physiotherapy	MFACOMP60	
Neurology and Neurosurgery Physiotherapy	MFANNSP60	9
Orthopaedic Manipulative Physiotherapy	MFAOMTP60	
Orthopaedic Surgery Physiotherapy	MFAORSP60	
Paediatric Physiotherapy	MFAPEDP60	
Physiotherapeutic Musculoskeletal Pain Management	MFAPMPM60	
Respirology, Cardiology and Cardiothoracic Surgery Physiotherapy	MFARCCS60	9
Sports and Exercise Physiotherapy	MFASPEP60	
Traumatology Physiotherapy	MFATRMP60	

8.3.1 Master of Dentistry

8.3.1.1 Admission rules

a) Admission requirements

Any of the following may be admitted as a *candidate* for the degree provided s/he is registered as a dentist by the Health Professions Council of South Africa and has held the *qualification* referred to in (i) and/or (ii) below for a minimum of two years*.

***This does not apply to the specialty of Oral Pathology.**

i) A Bachelor of Dental Science or Bachelor of Dental Surgery of this *University*, or

ii) A graduate of *any other university* or institution who has been accepted as a *candidate* for the degree, Master of Dentistry by virtue of having passed at any other university or institution such *assessments* as are, in the opinion of the *Senate* equivalent to the Bachelor of Dental Science of the *University*.

iii) In the case of a foreign graduate wishing to train as a supernumerary registrar, s/he has limited registration with the Health Professions Council of South Africa.

iv) S/he is the holder of a training post in the Wits Dental Hospital.

S/he accepts the condition that, whether as Registrar or Supernumerary Registrar, s/he may be subject to a period of probation of a maximum of one year and that at the end of this period, the department or division concerned may advise the *Senate* that the registration of the *candidate* be cancelled.

8.3.1.2 Curriculum rules

a) Length of programme

The *curriculum* for the degree extends over four years of full-time study as set out below.

Master of Dentistry in the specialty of Oral Pathology

Programme Code: MC014	**NQF Exit Level: 9**
Plan Code: MFOSOPAT60	**Total Wits Points: 240**

Course Code	Description	NQF Credits	NQF Level
Part I			
The *curriculum* extends over not less than two *academic years*.			
ANAP7000	Morbid Anatomy and Histopathology	30	9
ANAP7002	Application of Basic Sciences in Pathology	30	9
EXPD7000	Research Techniques	60	9
Part II			
The *curriculum* extends over not less than two *academic years*.			
OPAT7017	Oral Pathology O	60	9
OPAT7018	Research Report	60	9

Master of Dentistry in Community Dentistry

Programme Code: MCA52	**NQF Exit Level: 9**
Plan Code: MPACOMD60	**Total NQF Points: 480**

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
COMH7221A	Health and Society	15	9
COMH7047A	Health Measurement I	15	9
COMH7222A	Approaches to Population Health	15	9
COMH7048A	Health Measurement II	15	9
COMD7010A	Community Dentistry I	25	9

Course Code	Description	NQF Credits	NQF Level
COMD7009A	Research Report I	20	9
EXPD7000A	Research Techniques	15	9
Year of Study II			
COMD7011A	Community Dentistry II	65	9
COMD7012A	Clinical Community Diagnosis I	20	9
COMD7013A	Research Report II	35	9
Year of Study III			
COMD7008A	Community Dentistry III	60	9
COMD7016A	Clinical Community Diagnosis II	20	9
COMD7014A	Research Report III	40	9
Year of Study IV			
COMD7017A	Community Dentistry IV	46	9
COMD7019A	Clinical Community Diagnosis III	54	9
COMD7018A	Research Report IV	20	9

Master of Dentistry in Maxillo-Facial and Oral Surgery

Programme Code: MCA55	NQF Exit Level: 9
Plan Code: MPAMFOS60	Total NQF Points: 480

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
ANAT7013A	Applied Anatomy for Dentists	15	9
PHSL7001A	Physiology	15	9
OPAT7010A	Applied Pathology for Dentists	15	9
EXPD7000A	Research Techniques	15	9
SURG7067A	Maxillo-Facial and Oral Surgery I	30	9
SURG7068A	Research Report I	30	9
Year of Study II			
OPAT7072A	Oral Pathology	20	9
SURG7069A	Maxillo-Facial and Oral Surgery II	50	9
SURG7070A	Research Report II	30	9
Year of Study III			
OPAT7028A	Oral Pathology II	15	9
ANAE7008A	Principles and Practice of Anaesthesia	55	9
SURG7071A	Maxillo-Facial and Oral Surgery III	30	9
SURG7024A	General Principles of Surgery	20	9

Course Code	Description	NQF Credits	NQF Level
SURG7072A	Research Report III	20	9
Year of Study IV			
SURG7049A	Principles and Practice of Plastic and Reconstructive Surgery	60	9
SURG7073A	Maxillo-Facial and Oral Surgery IV	30	9
SURG7074A	Research Report IV	30	9

Master of Dentistry in Orthodontics

Programme Code: MCA53	**NQF Exit Level: 9**
Plan Code: MPAORTD60	**Total NQF Points: 485**

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
ANAT7013A	Applied Anatomy for Dentists	15	9
PHSL7001A	Physiology	15	9
OPAT7010A	Applied Pathology for Dentists	15	9
EXPD7000A	Research Techniques	15	9
ORTD7013A	Clinical Practice in Orthodontics I	30	9
ORTD7022A	Research Report I	20	9
Year of Study II			
ORTD7014A	Clinical Practice in Orthodontics II	65	9
ORTD7038A	Cranio-Facial Anomalies I	15	9
OPAT7026A	Oral Pathology	5	9
ORTD7023A	Research Report II	35	9
Year of Study III			
ORTD7015A	Clinical Practice in Orthodontics III	60	9
ORTD7039A	Cranio-Facial Anomalies II	15	9
ORTD7026A	Developmental and Educational Psychology	6	9
ORTD7035A	Research Report III	40	9
Year of Study IV			
ORTD7037A	Clinical Practice in Orthodontics IV	45	9
ORTD7025A	Practice Administration	10	9
ORTD7040A	Cranio-Facial Anomalies III	15	9
ORTD7036A	Research Report IV	60	9

Master of Dentistry in Periodontology and Oral Medicine

Programme Code: MCA54	NQF Exit Level: 9
Plan Code: MPAORMP60	Total NQF Points: 480

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
ANAT7013A	Applied Anatomy for Dentists	15	9
PHSL7001A	Physiology	15	9
OPAT7010A	Applied Pathology for Dentists	15	9
EXPD7000A	Research Techniques	15	9
ORMP7025A	Oral Medicine I	15	9
ORMP7021A	Periodontology I	15	9
SURG7033A	Implantology I	15	9
ORMP7029A	Research Report I	15	9
Year of Study II			
OPAT7025A	Oral Microbiology	20	9
PHAR7003A	Dental Pharmacology	15	9
ORMP7022A	Periodontology II	20	9
ORMP7026A	Oral Medicine II	20	9
SURG7034A	Implantology II	20	9
ORMP7030A	Research Report II	25	9
Year of Study III			
ORMP7023A	Periodontology III	20	9
ORMP7027A	Oral Medicine III	20	9
OPAT7024A	Oral Pathology	20	9
SURG7035A	Implantology III	20	9
ORMP7031A	Research Report III	40	9
Year of Study IV			
ORMP7024A	Periodontology IV	20	9
ORMP7028A	Oral Medicine IV	20	9
SURG7036A	Implantology IV	20	9
ORMP7032A	Research Report IV	60	9

Master of Dentistry in Prosthodontics

Programme Code: MCA56	NQF Exit Level: 9
Plan Code: MPAPROD60	Total NQF Points: 480

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
ANAT7013A	Applied Anatomy for Dentists	15	9
PHSL7001A	Physiology	15	9
EXPD7000A	Research Techniques	15	9
PROD7022A	Research Report I	35	9
Year of Study II			
PROD7024A	Clinical Prosthodontics I	50	9
PROD7023A	Prosthodontics I	50	9
PROD7025A	Research Report II	20	9
Year of Study III			
PROD7028A	Clinical Prosthodontics II	50	9
PROD7026A	Prosthodontics II	50	9
PROD7027A	Research Report III	60	9
Year of Study IV			
PROD7029A	Clinical Prosthodontics II	60	9
PROD7030A	Prosthodontics III	60	9
PROD7031A	Research Report IV	40	9

8.3.1.3 Progression and completion rules

a) Granting credit for a course or courses

The *Senate* may grant *credit* to a *candidate* and exempt her/him from attendance at and/or from *examination* in any *course* or *courses* prescribed for the degree on the ground of her/his having completed a *course* or *courses* considered by the *Senate* to be equivalent: Provided that s/he completed such *course* or *courses* not more than five years prior to her/his attendance as a *candidate* for the *examinations* and provided that such *courses* for which *credit* has been granted do not constitute more than 50 percent of the coursework for the degree. (Refer also to Rule 8.3.1.3 (b)).

b) Exemption

i) The *Senate* may exempt a *candidate* from a part or the whole of the period of clinical training and instruction referred to in Rule 8.3.1.3 (i)(i) on the ground of her/his having completed work of a nature that the *Senate* considers would warrant such an *exemption*.

c) Records of clinical work

A *candidate* shall not be awarded the degree unless s/he produces such records of her/his clinical work as the *Senate* may require.

In Maxillo-Facial and Oral Surgery the *Senate* requires 18 fully documented cases treated by the *candidate*. In Orthodontics the *Senate* requires 15 fully documented cases treated by the *candidate*.

d) Assessment

The *assessment* in each *course* prescribed for the degree shall be written, oral and practical: Provided that in the case of Physiology (PHSL7001/ PHSL7001A) it shall be written and oral only.

i) In Maxillo-Facial and Oral Surgery a *candidate* shall not obtain *credit* in SURG7067A,Maxillo-Facial and Oral Surgery I, SURG7069A, Maxillo-Facial and Oral Surgery II, SURG7071A, Maxillo-Facial and Oral Surgery III, or SURG7073A, Maxillo-Facial and Oral Surgery IV, unless s/he obtains a minimum of 50 percent in each question and section (written and clinical) of the *assessments* for each of these *courses*.

e) Re-Assessment

A *candidate* who fails to complete a *course* or *courses* prescribed for the degree may present herself/ himself for *re-assessment* therein without further attendance: Provided that s/he may be required by the *Senate* to perform such further work in such *course* as may be determined by the *Senate*.

If, on re-*assessment*, s/he again fails to complete such *course* s/he may be required by the *Senate* to re-attend the *course*.

If, after re-attendance, the *candidate* again fails to complete the *course* or *courses*, the *Senate* may deem the progress of the *candidate* to be unsatisfactory, and the registration of the *candidate* may be cancelled under Rule G5.7.

f) Colleges of Medicine examinations

The *examinations* of the Colleges of Medicine of South Africa may be deemed by the *Senate* to be the *examinations* of the *University*: Provided that any *exemption* that may be granted to a *candidate* by virtue of her/his having been deemed to have completed an *examination* of the *University* in this way shall lapse at the end of five years from the date on which s/he was so exempted if s/he has not by then satisfied all the requirements for the degree, Master of Dentistry as specified in Rule 8.3.1.3 (i) or for the degree, Master of Science in Dentistry as specified in Rules 8.3.6.2 (b) and (c).

NB: Completion of all the *examinations* of the Colleges of Medicine of SA, even if this is sufficient for the award of the fellowship of the Colleges of Medicine of SA, will satisfy only the requirements for the *courses* for the degree, MDent. The degree, MDent will be awarded only on satisfactory completion of the *Research Report*.

g) Requirements for the degree

A *candidate* shall undergo such clinical training and instruction while holding a training post approved by the Health Professions Council of South Africa; as the *Senate* may determine; and shall:

i) attend, and complete, concurrently with such training and instruction, the *course* or *courses* specified in Rules 8.3.1.2, under the rules for the individual programme for which s/he is registered;

ii) conduct concurrently with such training and instruction, under the guidance of the Head of the clinical department or the Heads of the clinical departments concerned or her/his nominee or their nominees, such advanced study or research as may be determined by the *Senate* on a topic approved by it; and

iii) submit, for the approval of the *Senate*, before completion of the final *assessment*, a *Research Report* on the approved topic.

Rule 8.3.1.3 (g)(ii) - In general, the required standard for the report is that of an original research paper which would be accepted for publication in a reputable journal. Further details can be obtained from the Faculty Office.

8.3.2 Master of Medicine

The following general rules are subject to any additional or contrary provisions in the special rules for the degree, Master of Medicine in any individual specialty.

8.3.2.1 Admission rules

a) Admission requirements

An *applicant* may be considered for *admission* provided that:

i) s/he is registered as a medical practitioner with the Health Professions Council of South Africa, or s/he has a *qualification* from another university that would allow the *candidate* to register as a medical practitioner, or in the case of a foreign graduate wishing to train as a supernumerary registrar, s/he has limited registration with the Health Professions Council of South Africa; and

ii) s/he is a holder of a training post in one of the teaching hospitals attached to the Faculty of Health Sciences of the University, or in the School of Pathology, or in another institution approved by the *Senate* and the Health Professions Council of South Africa, subject to the provisions of specific rules for specialties and sub-specialties; and

iii) s/he is the holder, of a minimum of two years' standing, of the degree Bachelor of Medicine and Bachelor of Surgery of this University or of *any other university*; or

iv) is the holder of, either

A. an appropriate degree of Master of Medicine of the University; or

B. an appropriate specialist or sub-specialist *qualification* awarded by one of the Colleges of Medicine of South Africa, or by an institution recognised by the *Senate* to be of equivalent standing, and

v) s/he accepts the condition that, whether as Registrar or Supernumerary Registrar, s/he may be subject to a period of probation of a maximum of one year and that at the end of this period, the department or division concerned may advise the *Senate* that the registration of the *candidate* be cancelled.

8.3.2.2 Curriculum rules

a) Length of programme

The *curriculum* for the degree extends over either three or four years of full-time study as set out below.

Master of Medicine in Anaesthesia

Programme Code: MCA21	**NQF Exit Level: 9**
Plan Code: MPAANAE60	**Total NQF Credits: 480**

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
ANAE7000A	Applied Anatomy, Physiology, Physics and Pharmacology in Anaesthetic Practice	115	9
Year of Study II			
ANAE7008A	The Principles and Practice of Anaesthesia I	55	9
ANAE7010A	Peri-operative Care in relation to Anaesthetic Practice I	55	9
ANAE7011A	Research Report I	70	9
Year of Study III			
ANAE7009A	The Principles and Practice of Anaesthesia II	55	9
ANAE7013A	Peri-operative Care in relation to Anaesthetic Practice II	55	9

Course Code	Description	NQF Credits	NQF Level
ANAE7012A	Research Report II	75	9

Master of Medicine in Anatomical Pathology

Programme Code: MCA22	NQF Exit Level: 9
Plan Code: MPAANAP60	Total NQF Credits: 480

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
ANAP7002A	Application of Basic Sciences in Pathology	120	9
Year of Study II			
ANAP7012A	Anatomical Pathology I	70	9
ANAP7015A	Research Report I	45	9
Year of Study III			
ANAP7013A	Anatomical Pathology II	70	9
ANAP7016A	Research Report II	55	9
Year of Study IV			
ANAP7014A	Anatomical Pathology III	120	9

Master of Medicine in Cardio-thoracic Surgery

Programme Code: MCA23	NQF Exit Level: 9
Plan Code: MPACATS60	Total NQF Credits: 480

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
SURG7007A	Application of Basic Medical Sciences in Surgery in General	60	9
Year of Study II			
SURG7008A	The General Principles of Surgery in all Surgical Disciplines	60	9
Year of Study III			
SURG7063A	The Application of Basic Medical Sciences in Cardio-Thoracic Surgery I	50	9
SURG7061A	The Principles and Practice of Cardio-Thoracic Surgery I	55	9
SURG7064A	Research Report I	70	9
Year of Study IV			
SURG7066A	The Application of Basic Medical Sciences in Cardio-Thoracic Surgery II	55	9
SURG7062A	The Principles and Practice of Cardio-Thoracic Surgery II	55	9

Course Code	Description	NQF Credits	NQF Level
SURG7065A	Research Report II	75	9

Master of Medicine in Chemical Pathology

Programme Code: MCA24	NQF Exit Level: 9
Plan Code: MPACHEP61	Total NQF Credits: 480

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
CHEP7006A	Chemical Pathology Part I	120	9
Year of Study II			
CHEP7008A	Chemical Pathology Part II	120	9
Year of Study III			
CHEP7009A	Chemical Pathology Part III	50	9
CHEP7011A	Research Report I	70	9
Year of Study IV			
CHEP7010A	Chemical Pathology Part IV	45	9
CHEP7012A	Research Report II	75	9

Master of Medicine in Clinical Pathology

Programme Code: MCA25	NQF Exit Level: 9
Plan Code: MPACLIP60	Total NQF Credits: 480

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
ANAP7002A	Application of Basic Sciences in Pathology	120	9
Year of Study II			
CHEP7001A	Chemical Pathology (Clinical)	70	9
CMID7001A	Microbiology	70	9
CHEP7007A	Research Report I	70	9
Year of Study III			
HAEM7000A	Haematology (Clinical)	75	9
CHEP7013A	Research Report II	75	9

Master of Medicine in Community Health

Field of Occupational Medicine

Programme Code: MCA58	**NQF Exit Level: 9**
Plan Code: MFAOCCM60	**Total NQF Credits: 480**

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
COMH7272A	Principles and Practice of Occupational Medicine I	45	9
COMH7276A	Research Report I	30	9
and ***three*** courses (total of 45 credits) from courses offered for the MSc Epidemiology and Master of Public Health within the School of Public Health.			
Year of Study II			
COMH7273A	Principles and Practice of Occupational Medicine II	20	9
COMH7277A	Research Report II	55	9
and ***three*** courses (total of 45 credits) from courses offered for the MSc Epidemiology and Master of Public Health within the School of Public Health.			
Year of Study III			
COMH7274A	Principles and Practice of Occupational Medicine III	25	9
COMH7278A	Research Report III	65	9
and ***two*** courses (total of 30 credits) from courses offered for the MSc Epidemiology and Master of Public Health within the School of Public Health.			
Year of Study IV			
COMH7271A	Application of the Principles of Occupational Medicine	30	9
COMH7270A	Assessment and Evaluation of Health and Health Services	30	9
COMH7275A	Principles and Practice of Occupational Medicine IV	60	9

Field of Public Health Medicine

Programme Code: MCA58	**NQF Exit Level: 9**
Plan Code: MFAPUHM60	**Total NQF Credits: 475**

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
COMH7279A	Principles and Practice of Public Health Medicine I	30	9
COMH7283A	Research Report I	30	9
and ***four*** courses (total of 60 credits) from courses offered for the MSc Epidemiology and Master of Public Health within the School of Public Health.			
Year of Study II			
COMH7280A	Principles and Practice of Public Health Medicine II	30	9
COMH7284A	Research Report II	30	9

Course Code	Description	NQF Credits	NQF Level
and ***four*** courses (total of 60 credits) from courses offered for the MSc Epidemiology and Master of Public Health within the School of Public Health.			
Year of Study III			
COMH7281A	Principles and Practice of Public Health Medicine III	30	9
COMH7269A	Application of the Principles of Public Health Medicine	30	9
COMH7285A	Research Report III	90	9
Year of Study IV			
COMH7270A	Assessment and Evaluation of Health and Health Services	30	9
COMH7282A	Principles and Practice of Public Health Medicine IV	55	9

Master of Medicine in Dermatology

Programme Code: MCA26	**NQF Exit Level: 9**
Plan Code: MPADERM60	**Total NQF Credits: 480**

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
ANAT7001A	Anatomy with Special Reference to the Skin	50	9
ANAP7001A	Principles of Pathology	50	9
MEDC7003A	Application of Basic Medical Sciences in Dermatology	50	9
Year of Study II			
MEDC7040A	The Principles and Practice of Dermatology including Dermatohistopathology and Internal Medicine I	90	9
MEDC7039A	Research Report I	70	9
Year of Study III			
MEDC7041A	The Principles and Practice of Dermatology including Dermatohistopathology and Internal Medicine II	95	9
MEDC7042A	Research Report II	75	9

Master of Medicine in Diagnostic Radiology

Programme Code: MCA27	**NQF Exit Level: 9**
Plan Code: MPADRAD60	**Total NQF Credits: 480**

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
ANAT7023A	Applied Anatomy	20	9
RADD7000A	Radiography and Radiographic Photography	20	9
RADD7001A	Diagnostic X-ray Equipment Construction	20	9

Course Code	Description	NQF Credits	NQF Level
RADD7003A	Radiological Techniques and Special Investigations	20	9
RADD7005A	Radiation Protection and Radiation Biology	20	9
RASE7002A	Physical Basis of Diagnostic Radiology	20	9
Year of Study II			
RADD7009A	Theoretical and Practical Diagnostic Radiology I	50	9
RADD7010A	Clinical Medical Practice and Pathology as applied to Diagnostic Radiology I	55	9
RADD7012A	Research Report I	70	9
Year of Study III			
RADD7014A	Theoretical and Practical Diagnostic Radiology II	50	9
RADD7011A	Clinical Medical Practice and Pathology as applied to Diagnostic Radiology II	60	9
RADD7013A	Research Report II	75	9

Master of Medicine in Emergency Medicine

Programme Code: MCA28	**NQF Exit Level: 9**
Plan Code: MPAEMED60	**Total NQF Credits: 480**

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
FAMH7020A	Application of Basic Medical Sciences	40	9
FAMH7050A	Resuscitation	40	9
FAMH7049A	Acute and Undifferentiated Presentations	40	9
FAMH7047A	Emergency Care I	40	9
Year of Study II			
FAMH7048A	Emergency Care II	50	9
FAMH7046A	Paediatric Emergencies	40	9
FAMH7051A	Research Report I	75	9
Year of Study III			
FAMH7045A	Toxicology	40	9
FAMH7044A	Pre-Hospital Care and Disaster Medicine	40	9
FAMH7052A	Research Report II	75	9

Master of Medicine in Family Medicine

Programme Code: MCA29	NQF Exit Level: 9
Plan Code: MPAFAMM60	Total NQF Credits: 480

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
FAMH7037A	Principles and Practice of Family Medicine I	110	9
FAMH7040A	Research Report Part I	30	9
Year of Study II			
FAMH7038A	Principles and Practice of Family Medicine II	110	9
FAMH7041A	Research Report Part II	30	9
Year of Study III			
FAMH7039A	Principles and Practice of Family Medicine III	110	9
FAMH7042A	Research Report Part III	30	9
Year of Study IV			
FAMH7043A	Research Report Part IV	60	9

Master of Medicine in Forensic Pathology

Programme Code: MCA30	NQF Exit Level: 9
Plan Code: MPAFORM60	Total NQF Credits: 480

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
FORM7013A	Forensic Pathology I	120	9
Year of Study II			
FORM7014A	Forensic Pathology II	60	9
ANAP7008A	Morbid Anatomy and Histopathology	60	9
Year of Study III			
FORM7015A	Forensic Pathology III	50	9
FORM7011A	Research Report I	70	9
Year of Study IV			
FORM7016A	Forensic Pathology IV	45	9
FORM7012A	Research Report II	75	9

Master of Medicine in Haematology

Programme Code: MCA31	NQF Exit Level: 9
Plan Code: MPAHAEM60	Total NQF Credits: 480

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
ANAP7002A	Application of Basic Sciences in Pathology	120	9
Year of Study II			
HAEM7016A	Haematology I	120	9
Year of Study III			
HAEM7012A	Haematology II	50	9
HAEM7014A	Research Report I	70	9
Year of Study IV			
HAEM7013A	Haematology III	45	9
HAEM7015A	Research Report II	75	9

Master of Medicine in Internal Medicine

Programme Code: MCA32	NQF Exit Level: 9
Plan Code: MPAIMED60	Total NQF Credits: 480

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
MEDC7004A	Application of Basic Medical Sciences in Internal Medicine	165	9
Year of Study II			
MEDC7035A	The Principles and Practice of Internal Medicine I	85	9
MEDC7037A	Research Report I	70	9
Year of Study III			
MEDC7036A	The Principles and Practice of Internal Medicine II	85	9
MEDC7038A	Research Report II	75	9

Master of Medicine in Medical Genetics

Programme Code: MCA33	NQF Exit Level: 9
Plan Code: MPAMEDG60	Total NQF Credits: 480

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
HUMG7013A	Medical Genetics for Specialists	80	9
HUMG7012A	Genetic Counselling for Specialists	80	9

Course Code	Description	NQF Credits	NQF Level
Year of Study II			
HUMG7023A	Clinical Genetics for Specialists I	90	9
HUMG7021A	Research Report I	70	9
Year of Study III			
HUMG7024A	Clinical Genetics for Specialists II	85	9
HUMG7022A	Research Report II	75	9

Master of Medicine in Microbiology

Programme Code: MCA34	NQF Exit Level: 9
Plan Code: MPAMICR60	Total NQF Credits: 480

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
ANAP7002A	Application of Basic Sciences in Pathology	120	9
Year of Study II			
CMID7032A	Microbiology I	120	9
Year of Study III			
CMID7033A	Microbiology II	50	9
CMID7035A	Research Report I	70	9
Year of Study IV			
CMID7034A	Microbiology III	45	9
CMID7036A	Research Report II	75	9

Master of Medicine in Neurology

Programme Code: MCA36	NQF Exit Level: 9
Plan Code: MPANEUR60	Total NQF Credits: 480

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
MEDC7006A	The Applications of Basic Medical Sciences in relation to Neurology	120	9
Year of Study II			
MEDC7007A	The Principles and Practice of Neurology	120	9
Year of Study III			
MEDC7008A	The Principles and Practice of Internal Medicine	95	9
MEDC7033A	Research Report I	55	9

Course Code	Description	NQF Credits	NQF Level
Year of Study IV			
MEDC7034A	Research Report II	90	9

Master of Medicine in Neurological Surgery

Programme Code: MCA35	**NQF Exit Level: 9**
Plan Code: MPANEUS60	**Total NQF Credits: 480**

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
SURG7007A	Application of Basic Medical Sciences in Surgery in General	60	9
SURG7008A	The General Principles of Surgery in all Surgical Disciplines	60	9
Year of Study II			
NEUS7000A	Principles and Practice of Neurosurgery	60	9
NEUS7012A	Research Report I	20	9
Year of Study III			
NEUS7001A	Application of Basic Medical Sciences in Neurosurgery	75	9
NEUS7013A	Research Report II	60	9
Year of Study IV			
NEUS7002A	Principles of General Surgery	80	9
NEUS7014A	Research Report III	65	9

Master of Medicine in Nuclear Medicine

Programme Code: MCA37	**NQF Exit Level: 9**
Plan Code: MPANUCM60	**Total NQF Credits: 480**

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
RASE7008A	Physics in relation to Nuclear Medicine and Biostatistics	45	9
RASE7009A	Principles of Anatomy, Physiology and Medical Biochemistry in relation to Nuclear Medicine	45	9
RASE7012A	Principles of Pathology and Pharmacology in relation to Nuclear Medicine and Introduction to General Radiobiology	45	9
Year of Study II			
RASE7015A	Principles and Practice of General Radiation Biology as applied to Nuclear Medicine	100	9
Year of Study III			
RASE7026A	The Clinical Practice of Nuclear Medicine I	50	9

Course Code	Description	NQF Credits	NQF Level
RASE7022A	Research Report I	75	9
Year of Study IV			
RASE7027A	The Clinical Practice of Nuclear Medicine II	50	9
RASE7023A	Research Report II	70	9

Master of Medicine in Obstetrics and Gynaecology

Programme Code: MCA38	NQF Exit Level: 9
Plan Code: MPAOBSG60	Total NQF Credits: 480

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
OBSG7000A	The Applications of Basic Medical Sciences in Obstetrics and Gynaecology	120	9
Year of Study II			
OBSG7010A	The Principles and Practice of Obstetrics and Gynaecology I	105	9
OBSG7008A	Research Report I	70	9
Year of Study III			
OBSG7011A	The Principles and Practice of Obstetrics and Gynaecology II	110	9
OBSG7009A	Research Report II	75	9

Master of Medicine in Ophthalmology

Programme Code: MCA40	NQF Exit Level: 9
Plan Code: MPAOPHT60	Total NQF Credits: 480

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
OPHT7000A	Physiology of the Visual System and Related Areas including Optics	120	9
Year of Study II			
OPHT7001A	Anatomy and Embryology of the Visual System and Related Areas	120	9
Year of Study III			
OPHT7002A	Ophthalmic Medicine and Neurology	45	9
OPHT7007A	Research Report I	70	9

Course Code	Description	NQF Credits	NQF Level
Year of Study IV			
OPHT7003A	Ophthalmic Surgery and Pathology	50	9
OPHT7008A	Research Report II	75	9

Master of Medicine in Orthopaedic Surgery

Programme Code: MCA41	**NQF Exit Level: 9**
Plan Code: MPAORTS60	**Total NQF Credits: 480**

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
SURG7007A	Application of Basic Medical Sciences in Surgery in General	60	9
Year of Study II			
SURG7008A	The General Principles of Surgery in all Surgical Disciplines	60	9
ORTS7002A	Methods of Diagnosis and Treatment of Orthopaedic Surgical Conditions	75	9
Year of Study III			
ORTS7001A	Applications of Basic Medical Sciences in Orthopaedic Surgery	75	9
ORTS7007A	Research Report I	70	9
Year of Study IV			
ORTS7003A	Principles and Practice of Orthopaedic Surgery	65	9
ORTS7008A	Research Report II	75	9

Master of Medicine in Otorhinolaryngology

Programme Code: MCA42	**NQF Exit Level: 9**
Plan Code: MPAENTS60	**Total NQF Credits: 480**

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
SURG7007A	Application of Basic Medical Sciences in Surgery in General	60	9
Year of Study II			
SURG7008A	The General Principles of Surgery in all Surgical Disciplines	60	9
Year of Study III			
NEUS7003A	Applications of Basic Medical Sciences in Otorhinolaryngology	100	9

Course Code	Description	NQF Credits	NQF Level
NEUS7015A	Research Report I	70	9
Year of Study IV			
NEUS7006A	Principles and Practice of Otorhinolaryngology	115	9
NEUS7016A	Research Report II	75	9

Master of Medicine in Paediatrics

Programme Code: MCA44	NQF Exit Level: 9
Plan Code: MPAPAED60	Total NQF Credits: 480

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
PAED7001A	Application of Basic Medical Sciences in Paediatrics	120	9
Year of Study II			
PAED7042A	The Principles and Practice of Ambulatory and Hospital Paediatrics I	65	9
PAED7044A	Research Report I	70	9
Year of Study III			
PAED7003A	Community Paediatrics	80	9
PAED7043A	The Principles and Practice of Ambulatory and Hospital Paediatrics II	70	9
PAED7045A	Research Report II	75	9

Master of Medicine in Paediatric Surgery

Programme Code: MCA43	NQF Exit Level: 9
Plan Code: MPAPAES60	Total NQF Credits: 480

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
SURG7007A	Application of Basic Medical Sciences in Surgery in General	60	9
Year of Study II			
SURG7008A	The General Principles of Surgery in all Surgical Disciplines	60	9
Year of Study III			
SURG7051A	The Applications of Medical Sciences in Paediatric Surgery I	45	9
SURG7039A	The Principles and Practice of Paediatric Surgery I	50	9
SURG7059A	Research Report I	70	9

Course Code	Description	NQF Credits	NQF Level
Year of Study IV			
SURG7052A	The Applications of Medical Sciences in Paediatric Surgery II	60	9
SURG7040A	The Principles and Practice of Paediatric Surgery II	60	9
SURG7060A	Research Report II	75	9

Master of Medicine in Plastic and Reconstructive Surgery

Programme Code: MCA45	**NQF Exit Level: 9**
Plan Code: MPAPLRS60	**Total NQF Credits: 480**

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
SURG7007A	Application of Basic Medical Sciences in Surgery in General	60	9
Year of Study II			
SURG7008A	The General Principles of Surgery in all Surgical Disciplines	60	9
Year of Study III			
SURG7045A	The Applications of Basic Medical Sciences in Plastic and Reconstructive Surgery I	50	9
SURG7049A	The Principles and Practice of Plastic and Reconstructive Surgery I	60	9
SURG7057A	Research Report I	70	9
Year of Study IV			
SURG7046A	The Applications of Basic Medical Sciences in Plastic and Reconstructive Surgery II	50	9
SURG7050A	The Principles and Practice of Plastic and Reconstructive Surgery II	55	9
SURG7058A	Research Report II	75	9

Master of Medicine in Psychiatry

Programme Code: MCA46	**NQF Exit Level: 9**
Plan Code: MPAPSMH60	**Total NQF Credits: 480**

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
ANAT7000A	Anatomy in relation to the Nervous System	30	9
PHSL7019A	Principles of Physiology and Medical Biochemistry in relation to the Nervous System	30	9

Course Code	Description	NQF Credits	NQF Level
PSMH7020A	Psychological Medicine	30	9
PSMH7001A	Neurochemistry and Psychopharmacology	30	9
Year of Study II			
MEDC7043A	Neurology I	50	9
PSMH7015A	Psychological Medicine I	60	9
PSMH7013A	Research Report I	70	9
Year of Study III			
MEDC7044A	Neurology II	45	9
PSMH7016A	Psychological Medicine II	60	9
PSMH7014A	Research Report II	75	9

Master of Medicine in Radiation Oncology

Programme Code: MCA48	**NQF Exit Level: 9**
Plan Code: MPARADO60	**Total NQF Credits: 480**

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
ANAT7023A	Applied Anatomy	20	9
RASE7001A	The Principles of Radiation Physics as applied to Radiotherapy	50	9
RASE7005A	Radiobiology and Biostatistics as applied to Radiation Oncology	50	9
Year of Study II			
RASE7024A	The Principles and Practice of Radiotherapy, Chemotherapy and Immunity in relation to Cancer I	105	9
RASE7028A	Research Report I	70	9
Year of Study III			
RASE7025A	The Principles and Practice of Radiotherapy, Chemotherapy and Immunity in relation to Cancer II	110	9
RASE7029A	Research Report II	75	9

Master of Medicine in Surgery
Field of General Surgery

Programme Code: MCA59	**NQF Exit Level: 9**
Plan Code: MFASURG60	**Total NQF Credits: 480**

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
SURG7007A	Application of Basic Medical Sciences in Surgery in General	60	9
Year of Study II			
SURG7008A	The General Principles of Surgery in all Surgical Disciplines	60	9
Year of Study III			
SURG7047A	The Applications of Basic Medical Sciences in Surgery I	45	9
SURG7041A	The Principles and Practice of Surgery I	60	9
SURG7055A	Research Report I	70	9
Year of Study IV			
SURG7048A	The Applications of Basic Medical Sciences in Surgery II	50	9
SURG7042A	The Principles and Practice of Surgery II	60	9
SURG7056A	Research Report II	75	9

Master of Medicine in Surgery
Field of Paediatric Surgery

Programme Code: MCA59	**NQF Exit Level: 9**
Plan Code: MFAPAED60	**Total NQF Credits: 480**

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
SURG7007A	Application of Basic Medical Sciences in Surgery in General	60	9
Year of Study II			
SURG7008A	The General Principles of Surgery in all Surgical Disciplines	60	9
Year of Study III			
SURG7051A	The Applications of Medical Sciences in Paediatric Surgery I	45	9
SURG7039A	The Principles and Practice of Paediatric Surgery I	50	9
SURG7059A	Research Report I	70	9

Course Code	Description	NQF Credits	NQF Level
Year of Study IV			
SURG7052A	The Applications of Medical Sciences in Paediatric Surgery II	60	9
SURG7040A	The Principles and Practice of Paediatric Surgery II	60	9
SURG7060A	Research Report II	75	9

Master of Medicine in Urology

Programme Code: MCA50	**NQF Exit Level: 9**
Plan Code: MFAUROL60	**Total NQF Credits: 480**

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
SURG7007A	Application of Basic Medical Sciences in Surgery in General	60	9
Year of Study II			
SURG7008A	The General Principles of Surgery in all Surgical Disciplines	60	9
Year of Study III			
SURG7053A	The Applications of Basic Medical Sciences in Urology I	45	9
SURG7043A	The Principles and Practice of Urology I	60	9
SURG7037A	Research Report I	70	9
Year of Study IV			
SURG7054A	The Applications of Basic Medical Sciences in Urology II	50	9
SURG7044A	The Principles and Practice of Urology II	60	9
SURG7038A	Research Report II	75	9

Master of Medicine in Virology

Programme Code: MCA51	**NQF Exit Level: 9**
Plan Code: MPAVIRL60	**Total NQF Credits: 480**

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
ANAP7002A	Application of Basic Sciences in Pathology	120	9
Year of Study II			
VIRL7018A	Virology I	120	9
Year of Study III			
VIRL7019A	Virology II	50	9

Course Code	Description	NQF Credits	NQF Level
VIRL7021A	Research Report I	70	9
Year of Study IV			
VIRL7020A	Virology III	45	9
VIRL7022A	Research Report II	75	9

8.3.2.3 Progression and completion rules

a) Completion of course, credit and progression

i) In order to complete a *course* a *candidate* must obtain a minimum of fifty per cent of the marks allotted to such *course*: and, where a *course* consists of components, a *candidate* must obtain a minimum of fifty per cent of the marks allotted to each component.

ii) A *candidate* may normally not obtain *credit* in any of the *courses* prescribed for the degree in a particular specialty (or for a part of the degree in a particular specialty), unless s/he passes all such *courses* in the same *academic year*. Provided that a *candidate* who has completed all but one of the *courses* may be permitted by the *Senate* to present herself/himself for re-*examination* in that *course*.

iii) A *candidate* may be exempted by the *Senate* from re-attendance at and re-*assessment* in any *course* in which s/he has, at the ordinary *assessments* or at any deferred or re-*assessment* for which s/he has been permitted to present herself/himself in terms of the rules, attained not less than fifty per cent of the marks allotted to the *course*, but such *exemption* shall remain in effect only until the end of the following *assessment* session.

iv) A *candidate* who fails to obtain *credit* in the *courses* prescribed for the degree in a particular specialty or part of a degree in a particular specialty as the case may be or who loses an *exemption* in terms of Rule 8.3.2.3 (a)(iii), may be re-admitted to candidature by the *Senate*: Provided that the *Senate* may exempt such a *candidate* from re-attendance.

b) Exemption

A *candidate* who has been registered for a *qualification* at another institution recognised by the *Senate* in a specialty may be:

i) exempted from all or part of the clinical training and the instruction referred to in Rule 8.3.2.3 (e)(ii), on the ground of her/his having completed work of a nature deemed by the *Senate* to be of equivalent standing.

ii) exempted from attendance at and *assessment* in a *course* or *courses* prescribed for the specialty on the ground of her/his having attended and having successfully completed a *course* or *courses* deemed by the *Senate* to be of equivalent standing: Provided that the number of *courses* for which *exemption* may be granted shall not exceed one half of the total number of *courses* prescribed for the specialty. A *candidate* who has been exempted from a *course* or *courses* shall be deemed to have obtained *credit* therefore.

c) Assessment

NB: Completion of all the examinations of the Colleges of Medicine of SA, even if this is sufficient for the award of the fellowship of the Colleges of Medicine of SA, will satisfy only the requirements for the *courses* for the degree, MMed – Rule 8.3.2.3 (e)(ii). The degree, MMed will be awarded only on satisfactory completion of the *Research Report*.

i) Where the *curriculum* for the degree in a specialty comprises Year of Study I and II, the *examination* or *examinations*, as the case may be, in the *course* or *courses* prescribed for Year of Study I of the *curriculum* shall normally be held at or near the end of the first year of study except where otherwise specified in the rules, and the *examination* or *examinations* in the *course* or *courses* prescribed for Year of Study II of the *curriculum* shall be held at or towards the end of the third year of study, except where otherwise specified in the rules, and provided that in exceptional circumstances the *Senate* may grant permission to a *candidate* who has completed her/his period of training and relinquished her/his training post (as specified in Rule 8.3.2.1 (a) to continue her/his candidature for the degree for a further period to be determined by the *Senate* and to write the *examinations* within such further period.

ii) Where the *curriculum* for the degree is not divided into parts, the *examinations* in the *courses* prescribed for the degree shall normally be held at or near the end of the third year of study.

iii) The *assessments* for a *course* prescribed for the degree shall be written, practical, clinical, oral, or by any other mode of *assessment* deemed by the *Senate* to be appropriate, or any combination thereof.

iv) The *examinations* set by or administered by the Colleges of Medicine of South Africa may be deemed by the *Senate* to be *examinations* of the University.

v) The *Senate* may, furthermore, substitute an *examination* of the Colleges of Medicine of SA for any *examination* referred to in this Rule, in which case, a *candidate* will be required to sit for that *examination*.

d) Qualification for entry to the final examination

A *candidate* shall not be qualified to present herself/himself for the final *examination* unless s/he has produced evidence to the satisfaction of the *Senate* that s/he has, subsequent to her/his registration for the degree, undergone clinical training and instruction satisfactory to the *Senate* for a period of a minimum of three years in the specialty.

e) Requirements for the degree

A *candidate* may register for the MMed degree in the specialty, provided that s/he is eligible for *admission*.

Subject to the provisions of Rule 8.3.2.3 (b), a *candidate* for the degree in the specialty shall, while holding a training post referred to in Rule 8.3.2.1 (a)(ii):

i) be required to register annually for the MMed degree* and

ii) undergo such clinical training and instruction as the *Senate* may determine, for a period of not less than three years; and

iii) attend the *course* or *courses* prescribed for the degree in the specialty for which s/he is registered;

iv) conduct under the guidance of a supervisor appointed by the *Senate*, such research as may be determined by the *Senate*, on a topic approved by it. For the purposes of these rules the *Research Report* shall be deemed to be a *course*.

***This will ensure that the time spent in a training post will be recognised. Failure to do so will result in non-recognition of the time spent in a training post.**

8.3.3 Master of Pharmacy (MRA03)

8.3.3.1 Admission rules

a) Admission requirements

i) Any of the following may be admitted as a *candidate* for the degree provided s/he is registered as a pharmacist with the South African Pharmacy Council: Provided that the *Senate* is satisfied that the *applicant* is qualified to undertake the line of study proposed or research (or both):

A. The holder of a Bachelor of Pharmacy of the University; or

B. A graduate of this or another university; or

C. A person other than a graduate who has in any other manner satisfied the *Senate*.

ii) A person who in the Faculty of Health Sciences has been admitted as a *candidate* for the degree, Doctor of Philosophy may, at her/his request and on the recommendation of the supervisor and head of the department concerned, be permitted by the *Senate* to proceed instead to the degree, Master of Pharmacy.

8.3.3.2 Curriculum rules

A *candidate* for the degree, Master of Pharmacy shall conduct a line of research approved by the *Senate* and submit a *Dissertation* based on that research.

a) Prosecution of research

Programme Code: MRA03	**NQF Exit Level: 9**
Plan Code: MPAPHM70	**Total NQF Credits: 180**

Course Code	Description	NQF Credits	NQF Level
PACY8000A	M Pharm *Dissertation*	180	9

i) A *candidate* shall under the direction of a supervisor appointed by the *Senate*, conduct, during not less than one *academic year* of full-time study, advanced study and research on a topic approved by the *Senate* either in the University or in an institution deemed by the *Senate* to be part of the University for this purpose.

ii) A *candidate* shall –

A. report regularly to her/his supervisor, if there be one, and shall in June and November each year lodge with her/his supervisor or, if there be no supervisor, with the head of the department concerned a written statement of her/his progress in her/his advanced study and research; and

B. at the close of the period of advanced study and research, after consultation with the supervisor, if there be one, present for the approval of the *Senate* a *Dissertation* on a subject approved by the *Senate*, such *Dissertation* to show acquaintance with and understanding of methods of research.

C. A *candidate* shall, if required by the *Senate*, present herself/himself for such *assessments* in regard to the subject of her/his *Dissertation* as the *Senate* may determine.

8.3.4 Master of Public Health (MCA17)

8.3.4.1 Admission rules

a) Admission requirements

Any of the following may be admitted as a *candidate*:

i) A graduate of the *University* who has been awarded one of the following degrees:
Bachelor of Dental Science;
Bachelor of Medicine and Bachelor of Surgery;
Bachelor of Nursing;
Bachelor of Science in Occupational Therapy;
Bachelor of Pharmacy;
Bachelor of Science in Physiotherapy;
Bachelor of Health Sciences with Honours; or
Bachelor of Science with Honours.

ii) A graduate who has been awarded any other *qualification*, the normal *curriculum* of which extends over not less than four years' full-time study, of the *University*, who, in the opinion of the *Senate*, is sufficiently qualified to undertake the field of study proposed or research (or both), required for the *qualification*, or

iii) Any other person, who has satisfied the *Senate*, by means of a written or oral test (or both), or by any other mode of *assessment* to be determined from time to time by the *Senate*, that s/he is sufficiently qualified to undertake the field of study proposed or research (or both), required for the *qualification*.

Note: *Admission* will take place on a bi-annual basis.

8.3.4.2 Curriculum rules

a) Length of programme

The *qualification* shall extend over:

i) not less than two *academic years* of full-time study;

ii) not less than four *academic years* of part-time study, and

iii) not less than three years, in the case of a *curriculum* for a part-time *candidate* that combines both part-time and full-time study.

b) Structure of programme

i) The *curriculum* shall comprise three parts. Parts I and II must be completed in the first year of full-time study or by the end of the second year of part-time study, and Part III must be completed by the end of the second year of full-time study, or by the end of the fourth year of part-time study, or before the end of the third year of study where part-time and full-time study have been combined.

ii) A *candidate* shall –

A. during a period of not less than one *academic year* of full-time study or two *academic years* of part-time study attend and complete:

- the *courses* set out in Part I
- a minimum of four of the *courses* listed in the field of study selected for Part II, and
- two *courses* from any field of study as approved by the *Senate*

B. conduct, under the direction of a supervisor appointed by the *Senate*, research on a topic approved by the *Senate*.

(In the field of Occupational Hygiene the *Research Report* shall be a thorough study of a hazard or hazards in a workplace with recommendations for the elimination or control of the hazard(s).

c) Fields of study

Field of Exposure and Health

Programme Code: MCA17	**NQF Exit Level: 9**
Plan Code: MFAESCI60	**Total NQF Credits: 360**

Course Code	Description	NQF Credits	NQF Level
Part I			
COMH7100A	Orientation to Public Health	0	9
COMH7047A	Health Measurement I	15	9
COMH7221A	Health and Society	15	9
COMH7222A	Approaches to Population Health	15	9
COMH7223A	Designing Effective Public Health Programs	15	9
COMH7048A	Health Measurement II	15	9
COMH7104A	Introduction to Environmental and Occupational Health	15	9
Part II			
COMH7046A	Research Methods	15	9
COMH7297A	Exposure Induced Health Outcome	15	9
COMH7301A	Exposure Science I	15	9
COMH7298A	Fundamentals of Risk Assessment	15	9
COMH7295A	Exposure Control I	15	9
COMH7303A	Risk & Safety Management: Systems and Programmes	15	9
Part III			
The following prescribed *course* extends over not less than one *academic year* of full-time study or two *academic years* of part-time study:			
COMH7175A	Research Report	180	9

Field of Health Economics

Programme Code: MCA17	**NQF Exit Level: 9**
Plan Code: MFAHECN60	**Total NQF Credits: 360**

Course Code	Description	NQF Credits	NQF Level
Part I			
COMH7100A	Orientation to Public Health	0	9

Course Code	Description	NQF Credits	NQF Level
COMH7047A	Health Measurement I	15	9
COMH7221A	Health and Society	15	9
COMH7222A	Approaches to Population Health	15	9
COMH7223A	Designing Effective Public Health Programs	15	9
COMH7048A	Health Measurement II	15	9
COMH7287A	Introduction to Health Economics	15	9
Part II			
COMH7101A	Management in Health and Health Services	15	9
COMH7046A	Research Methods	15	9
COMH7017A	Health Care Financing	15	9
COMH7289A	Economics of Health Care	15	9
COMH7286A	Economic Evaluation	15	9
COMH7288A	Decision Analysis for Economic Evaluation	15	9
Part III			
The following prescribed *course* extends over not less than one *academic year* of full-time study or two *academic years* of part-time study:			
COMH7175A	Research Report	180	9

Field of Health Systems and Policy

Programme Code: MCA17	**NQF Exit Level: 9**
Plan Code: MFAHSAP61	**Total NQF Credits: 360**

Course Code	Description	NQF Credits	NQF Level
Part I			
COMH7100A	Orientation to Public Health	0	9
COMH7047A	Health Measurement I	15	9
COMH7221A	Health and Society	15	9
COMH7222A	Approaches to Population Health	15	9
COMH7223A	Designing Effective Public Health Programs	15	9
and **two** of the following elective *courses*:			
COMH7005A	Fundamentals of Occupational Hygiene and Hazardous Substances	15	9
COMH7190A	Occupational and Environmental Health I	15	9
COMH7048A	Health Measurement II	15	9
COMH7226A	Planning and Implementing Social and Behaviour Change Communication	15	9
COMH7212A	Introduction to Health Systems	15	9

Course Code	Description	NQF Credits	NQF Level
PAED7010A	Child Health I	15	9
COMH7101A	Management in Health and Health Services	15	9
FAMH7031A	The Rural Health Care Context	15	9
COMH7089A	Health Services Management: Personnel	15	9
COMH7095A	Health Services Management: Finance	15	9
COMH7138A	Institutional, Corporate and Hospital Management	15	9
COMH7144A	Resources, Facilities and Logistics	15	9
COMH7224A	Introduction to Health Promotion	15	9
COMH7104A	Introduction to Occupational and Environmental Health	15	9
COMH7160A	Principles of Environmental Health	15	9
Part II			
A minimum of **six** of the following elective *courses*:			
COMH7015A	Project Management for Public Health Practitioners	15	9
COMH7017A	Health Care Financing	15	9
COMH7041A	Health Policy and Policy Analysis	15	9
COMH7046A	Research Methods	15	9
COMH7211A	HIV/AIDS and Health Systems	15	9
COMH7213A	Health Systems Evaluation and Research	15	9
COMH7140A	Introduction to Management Theory and Practice	15	9
COMH7236A	Health Systems Organisation and Human Resources	15	9
COMH7101A	Management in Health and Health Services	15	9
COMH7129A	Quality Assurance in Health Care	15	9
COMH7287A	Introduction to Health Economics	15	9
COMH7135A	Health Services and Health Systems Research	15	9
Part III			
The following prescribed *course* extends over not less than one *academic year* of full-time study or two *academic years* of part-time study:			
COMH7175A	Research Report	180	9

Field of Occupational Hygiene

Programme Code: MCA17	**NQF Exit Level: 9**
Plan Code: MFAOCCH62	**Total NQF Credits: 360**

Course Code	Description	NQF Credits	NQF Level
Part I			
COMH7100A	Orientation to Public Health	0	9

Course Code	Description	NQF Credits	NQF Level
COMH7047A	Health Measurement I	15	9
COMH7221A	Health and Society	15	9
COMH7222A	Approaches to Population Health	15	9
COMH7223A	Designing Effective Public Health Programs	15	9
COMH7048A	Health Measurement II	15	9
COMH7104A	Introduction to Occupational and Environmental Health	15	9
Part II			
COMH7297A	Exposure Induced Health Outcome	15	9
COMH7301A	Exposure Science I	15	9
COMH7298A	Fundamentals of Risk Assessment	15	9
COMH7007A	Measurement of Hazardous Substances	15	9
COMH7217A	Control of Workplace Hazards	15	9
COMH7046A	Research Methods	15	9
Part III			
The following prescribed *course* extends over not less than one *academic year* of full-time study or two *academic years* of part-time study:			
COMH7175A	Research Report	180	9

Field of Maternal and Child Health

Programme Code: MCA17	**NQF Exit Level: 9**
Plan Code: MFAMACH61	**Total NQF Credits: 360**

Course Code	Description	NQF Credits	NQF Level
Part I			
COMH7100A	Orientation to Public Health	0	9
COMH7047A	Health Measurement I	15	9
COMH7221A	Health and Society	15	9
COMH7222A	Approaches to Population Health	15	9
COMH7223A	Designing Effective Public Health Programs	15	9
and **two** of the following elective *courses*:			
COMH7005A	Fundamentals of Occupational Hygiene and Hazardous Substances	15	9
COMH7190A	Occupational and Environmental Health I	15	9
COMH7048A	Health Measurement II	15	9
COMH7226A	Planning and Implementing Social and Behaviour Change Communication	15	9
COMH7212A	Introduction to Health Systems	15	9

Course Code	Description	NQF Credits	NQF Level
PAED7010A	Child Health I	15	9
COMH7101A	Management in Health and Health Services	15	9
FAMH7031A	The Rural Health Care Context	15	9
COMH7089A	Health Services Management: Personnel	15	9
COMH7095A	Health Services Management: Finance	15	9
COMH7138A	Institutional, Corporate and Hospital Management	15	9
COMH7144A	Resources, Facilities and Logistics	15	9
COMH7224A	Introduction to Health Promotion	15	9
COMH7104A	Introduction to Occupational and Environmental Health	15	9
COMH7160A	Principles of Environmental Health	15	9
Part II			
A minimum of **six** of the following elective *courses*:			
COMH7141A	Introduction to Bio-Ethics	15	9
PAED7019A	Child Health II	15	9
PAED7007A	Maternal Health	15	9
PAED7027A	Maternal and Child Nutrition	15	9
PAED7028A	A Public Health approach to Perinatal and Paediatric HIV	15	9
PAED7029A	Adolescent Health	15	9
COMH7046A	Research Methods	15	9
COMH7101A	Management in Health and Health Services	15	9
COMH7236A	Health Systems Organisation and Human Resources	15	9
COMH7213A	Health Systems Evaluation and Research	15	9
COMH7041A	Health Policy and Policy Analysis	15	9
FAMH7030A	Community Oriented Primary Care	15	9
FAMH7033A	Quality Improvement in Rural Health Care	15	9
FAMH7032A	Development of Rural Health Services: Strategies and Approaches	15	9
Part III			
The following prescribed *course* extends over not less than one *academic year* of full-time study or two *academic years* of part-time study:			
COMH7175A	Research Report	180	9

Field of Rural Health

Programme Code: MCA17	NQF Exit Level: 9
Plan Code: MFARURH61	Total NQF Credits: 360

Course Code	Description	NQF Credits	NQF Level
Part I			
COMH7100A	Orientation to Public Health	0	9
COMH7047A	Health Measurement I	15	9
COMH7221A	Health and Society	15	9
COMH7222A	Approaches to Population Health	15	9
COMH7223A	Designing Effective Public Health Programs	15	9
and **two** of the following elective *courses*:			
COMH7005A	Fundamentals of Occupational Hygiene and Hazardous Substances	15	9
COMH7190A	Occupational and Environmental Health I	15	9
COMH7048A	Health Measurement II	15	9
COMH7226A	Planning and Implementing Social and Behaviour Change Communication	15	9
COMH7212A	Introduction to Health Systems	15	9
PAED7010A	Child Health I	15	9
COMH7101A	Management in Health and Health Services	15	9
FAMH7031A	The Rural Health Care Context	15	9
COMH7089A	Health Services Management: Personnel	15	9
COMH7095A	Health Services Management: Finance	15	9
COMH7138A	Institutional, Corporate and Hospital Management	15	9
COMH7144A	Resources, Facilities and Logistics	15	9
COMH7224A	Introduction to Health Promotion	15	9
COMH7104A	Introduction to Occupational and Environmental Health	15	9
COMH7160A	Principles of Environmental Health	15	9
Part II			
A minimum of **six** of the following elective *courses*:			
FAMH7030A	Community Oriented Primary Care	15	9
FAMH7031A	The Rural Health Care Context	15	9
FAMH7032A	Development of Rural Health Services: Strategies and Approaches	15	9
FAMH7033A	Quality Improvement in Rural Health Care	15	9
FAMH7034A	The Health of Rural People – Epidemiology and Burden of Disease	15	9

Course Code	Description	NQF Credits	NQF Level
FAMH7035A	Management of District Hospitals	15	9
COMH7101A	Management in Health and Health Services	15	9
COMH7236A	Health Systems Organisation and Human Resources	15	9
COMH7213A	Health Systems Evaluation and Research	15	9
COMH7041A	Health Policy and Policy Analysis	15	9
COMH7046A	Research Methods	15	9
Part III			
The following prescribed *course* extends over not less than one *academic year* of full-time study or two *academic years* of part-time study:			
COMH7175A	Research Report	180	9

Field of Social and Behaviour Change Communication

Programme Code: MCA17	**NQF Exit Level: 9**
Plan Code: MFASBCC61	**Total NQF Credits: 360**

Course Code	Description	NQF Credits	NQF Level
Part I			
COMH7100A	Orientation to Public Health	0	9
COMH7047A	Health Measurement I	15	9
COMH7221A	Health and Society	15	9
COMH7222A	Approaches to Population Health	15	9
COMH7223A	Designing Effective Public Health Programs	15	9
and **two** of the following elective *courses*:			
COMH7005A	Fundamentals of Occupational Hygiene and Hazardous Substances	15	9
COMH7190A	Occupational and Environmental Health I	15	9
COMH7048A	Health Measurement II	15	9
COMH7226A	Planning and Implementing Social and Behaviour Change Communication	15	9
COMH7212A	Introduction to Health Systems	15	9
PAED7010A	Child Health I	15	9
COMH7101A	Management in Health and Health Services	15	9
FAMH7031A	The Rural Health Care Context	15	9
COMH7089A	Health Services Management: Personnel	15	9
COMH7095A	Health Services Management: Finance	15	9
COMH7138A	Institutional, Corporate and Hospital Management	15	9

Course Code	Description	NQF Credits	NQF Level
COMH7144A	Resources, Facilities and Logistics	15	9
COMH7224A	Introduction to Health Promotion	15	9
COMH7104A	Introduction to Occupational and Environmental Health	15	9
COMH7160A	Principles of Environmental Health	15	9
Part II			
A minimum of **six** of the following elective *courses*:			
COMH7046A	Research Methods	15	9
COMH7225A	Applying Social and Behaviour Change Theory to Practice	15	9
COMH7228A	Social and Behaviour Change Communication Approaches	15	9
COMH7229A	Communication, Media and Society	15	9
COMH7227A	Research, Monitoring and Evaluation	15	9
COMH7101A	Management in Health and Health Services	15	9
COMH7083A	Integration of Qualitative and Quantitative Research Methods	15	9
COMH7030A	Advocacy Skills for Promoting Equity	15	9
COMH7034A	Sexual and Reproductive Rights and International and National Legislation	15	9
COMH7187A	Strategies in Health Promotion	15	9
Part III			
The following prescribed *course* extends over not less than one *academic year* of full-time study or two *academic years* of part-time study:			
COMH7175A	Research Report	180	9

8.3.4.3 Progression and completion rules

a) Credit

A *candidate* shall obtain *credit* in any of the *courses* prescribed for and selected for Parts I and II provided s/he has successfully completed all requirements for the said *course* or *courses*.

b) Supplementary examinations and re-examination

i) A *candidate* who fails to meet the requirements for any *course* or *courses* included in Part I or Part II of the programme may be permitted by the *Senate* to present herself/himself for supplementary *examination* in any such *course* or *courses*.

ii) A *candidate* who then fails to complete the *course* or *courses* prescribed for any part of the programme may, subject to her/his being permitted to renew her/his registration, be required to re-attend the *courses* and present herself/himself for re-*examination* in those *courses*, which s/he has failed to complete.

A supplementary *examination* takes place before the beginning of February of the next calendar year, at such time and place as the *Senate* may determine.

c) Assessments

The *assessment* in the *courses* for Parts I and II shall be written, oral, and practical, by continuous *assessment* or by a combination of these methods as the *Senate* may determine in each case.

d) Proceeding to Part III

A *candidate* shall not, unless otherwise permitted by the *Senate*, be admitted to Part III until s/he has completed all the requirements for Part II.

Note: Attention is drawn to the *Senate* Standing Orders which require a *candidate* to report regularly to her/his supervisor and which require the lodging of written reports on her/his work. A copy of the Standing Orders is available from the Faculty Office.

8.3.5 Master of Health Sciences Education (MCA18)

8.3.5.1 Admission rules

a) Admission requirements

Any of the following may be admitted as a *candidate*:

i) A graduate of the *University* who has been awarded one of the following degrees provided that s/he has a minimum of two years of relevant teaching experience in a health science related field:

Bachelor of Science in Nursing or a Bachelor of Nursing;

Bachelor of Pharmacy;

Bachelor of Science in Occupational Therapy;

Bachelor of Science in Physiotherapy;

Bachelor of Dental Science;

Bachelor of Health Sciences Honours;

Bachelor of Science Honours.

Bachelor of Medicine and a Bachelor of Surgery;

ii) A graduate with one of the above *qualifications* from *any other university* who has been accepted as a *candidate* for the award by virtue of having passed at *any other university* such *examinations* as are, in the opinion of the *Senate* equivalent to or higher than the *examinations* prescribed for the award.

iii) A graduate who has been awarded any other degree, the normal *curriculum* of which extends over not less than four years' full-time study, of the *University*, who, in the opinion of the *Senate*, is sufficiently qualified to undertake the field of study proposed.

8.3.5.2 Curriculum rules

a) Length of programme

The *qualification* shall extend over not less than one *academic year* of full-time study or two *academic years* of part-time study.

Programme Code: MCA18	**NQF Exit Level: 9**
Plan Code: MPAHSED60	**Total NQF Credits: 180**

Course Code	Description	NQF Credits	NQF Level
SCMD7010A	Scholarship of Teaching and Learning in the Health Sciences	20	9
SCMD7009A	Curriculum Philosophy and Design in the Health Sciences	30	9

Course Code	Description	NQF Credits	NQF Level
SCMD7008A	Theory and Practice of Assessment in the Health Sciences	20	9
SCMD7006A	Evidence-informed Decision Making	8	9
SCMD7007A	Educational Strategies for the Clinical Sciences	18	9
SCMD7011A	Research Project I	20	9
SCMD7012A	Research Project II	64	9

8.3.5.3 Progression and completion rules

a) Supplementary examinations and -examination

i) A full-time *candidate* who completes a minimum of two of the *courses* may be permitted by the *Senate* to present herself/himself for a supplementary *examination* in the *course* or *courses* that s/he failed to complete.

ii) A part-time *candidate* who completes a minimum of one of the *courses* for which s/he is registered in any one year may be permitted by the *Senate* to present herself/himself for a supplementary *examination* in the *course* or *courses* that s/he has failed to complete.

8.3.6 Master of Science in Dentistry (MRA04; MCA07)

8.3.6.1 Admission rules

a) Admission requirements

i) Any of the following may be admitted by the *Senate* as a *candidate* for the degree if the *Senate* is satisfied that s/he is qualified to undertake the line of study proposed or research (or both):

A. The holder of a degree of bachelor of a minimum of four years' duration of this *University* in Dentistry, Oral Biology or Medicine.

B. A Bachelor of Science with Honours of the *University*.

C. A Bachelor of Science of the *University* who has produced evidence to the satisfaction of the *Senate* that s/he has attained an honours standard.

D. A graduate of any other university who has satisfied the *Senate* by means of a written or oral test (or both) or by means of any other mode of *assessment* to be determined from time to time by the *Senate* that s/he is qualified to undertake the line of study proposed or research (or both).

E. A person other than a graduate who has in the manner set out in (D) above satisfied the *Senate*.

ii) A person who in the Faculty of Health Sciences has been admitted as a *candidate* for the degree, Doctor of Philosophy may, at her/his request and on the recommendation of the supervisor and Head of the department concerned, be permitted by the *Senate* to proceed instead to the degree, Master of Science in Dentistry.

8.3.6.2 Curriculum rules

a) Choice of curriculum

A *candidate* for the degree, Master of Science in Dentistry may:

i) conduct a line of research approved by the *Senate* and present, for the approval of the *Senate*, a *Dissertation* based on that research; or

ii) if s/he is registered or is eligible to register as a dentist in terms of the Medical, Dental and Supplementary Health Service Professions Act (Act No. 56 of 1974) (as amended), attend and pass *courses* approved by the *Senate* and present, for the approval of the *Senate*, a report on a research project undertaken by her/him under the guidance of a supervisor appointed by the *Senate* on a subject approved by the *Senate*.

b) Length of curriculum and requirements for degree by research

Degree Code: MRA04	**NQF Exit Level: 9**
	Total NQF Credits: 180

i) A *candidate* for the degree, Master of Science in Dentistry shall, if s/he wishes to proceed in terms of Rule 8.3.6.2 (i):

A. conduct, during not less than one *academic year* of full-time or two years of part-time study, research on a subject of relevance to the field of dental science, in a department of the *University* under the guidance of a supervisor appointed by the *Senate*; and

Note: In cases where the *candidate*'s research requires her/him to work outside the University, s/he shall hold a suitable post in an institution approved by the *Senate* and shall, in that event, be deemed to be prosecuting part-time research under the guidance of a supervisor who shall be appointed by the *Senate* after consultation with the head of the institution concerned.

B. report regularly to her/his supervisor and shall, in June and November each year, lodge with her/his supervisor a written statement of her/his progress in her/his advanced study and research work during the first and second terms respectively; and

C. after consultation with the supervisor, present for the approval of the *Senate* a *Dissertation* on an approved subject of her/his research; such *Dissertation* to show acquaintance with and understanding of methods of research; and

D. if so required by the *Senate*, present herself/himself for such *assessments* in regard to the subject of her/his *Dissertation* as the examiners may determine.

ii) After expiry of the prescribed period of advanced study or research within the University, a *candidate* may, on the recommendation of her/his supervisor and with the approval of the *Senate*, continue to conduct her/his research for a further period at another institution, considered suitable by the *Senate*, prior to submitting her/his *Dissertation*.

c) Length of curriculum and requirements for degree by coursework and Research Report (MCA07)

i) A *candidate* admitted under Rule 8.3.6.2(ii) shall –

A. during a period of not less than one *academic year* of full-time study or two *academic years* of part-time study attend and pass such *courses* as the *Senate* may determine, and

B. conduct, under the direction of a supervisor appointed by the *Senate*, study on a topic approved by the *Senate* and submit, for the approval of the *Senate*, within a period determined by it and after s/he has consulted with her/his supervisor, a *Research Report*.

ii) The degree, Master of Science in Dentistry, by coursework and *Research Report* in terms of Rule 8.3.6.2 (ii), is offered in the following fields:

Community Dentistry	: (MFACMYD60)
Implantology	: (MFAIMPL60)
Endodontics	: (MFAENDO60)
Prosthodontics	: (MFAPRST60)
Maxillo-Facial Radiology	: (MFAMFRA60)
Oral Pathology	: (MFAORPA60)
Oral Medicine	: (MFAORAM60)
Orthodontics	: (MFAORTD60)
Maxillo-Facial and Oral Surgery	: (MFAMFSO60)
Paedodontics	: (MFAPEDO60)
Restorative Dentistry	: (MFAREST60)
Digital Operative Dentistry	: (MFADOPD60)

The *University* cannot guarantee that all fields will be offered every year.

Programme Code: MCA07	**NQF Exit Level: 9**
	Total NQF Credits: 180

Course Code	Description	NQF Credits	NQF Level
Part I			
ANAT7013A	Applied Anatomy for Dentists	15	9
PHSL7001A	Physiology	15	9
OPAT7010A	Applied Pathology for Dentists	15	9
EXPD7000A	Research Techniques	15	9
or in the case of Digital Operative Dentistry:			
PROD7020A	Digital Operative Dentistry I	45	9
EXPD7000A	Research Techniques	15	9
Part II			
OHSC7000A	Research Report	60	9
and **one** of the following *courses*:			
COND7002A	Paedodontics	60	9
COND7004A	Endodontics	60	9
COND7009A	Restorative Dentistry	60	9
COMD7002A	Community Dentistry	60	9
OPAT7011A	Oral Pathology	60	9
ORMP7016A	Maxillo-Facial Radiology	60	9
ORMP7020A	Oral Medicine	60	9
ORMP7019A	Periodontology	60	9

Course Code	Description	NQF Credits	NQF Level
ORTD7008A	Orthodontics	60	9
PROD7004A	Prosthodontics	60	9
PROD7021A	Digital Operative Dentistry II	60	9
SURG7032A	Maxillo-Facial and Oral Surgery	60	9
SURG7015A	Dento-Craniofacial Implantology	60	9

8.3.6.3 Progression and completion rules

a) Exemption

The *Senate* may exempt a *candidate* from attendance at and *assessment* in or from attendance at any one or more of the *courses* listed in Rule 8.3.6.2 (c) provided that no *candidate* who has already been awarded the degree, Master of Dentistry or any postgraduate diploma in dentistry of the University may be granted such *exemption* from any *course* or *courses* completed towards such *qualification* and provided further that no *exemption* will be granted for a *course* completed or attended more than five years immediately prior to a *candidate*'s registration for the degree, Master of Science in Dentistry.

b) Lapsing of exemption

In the case of a *candidate* who has been granted *exemption* in terms of Rule 8.3.6.3 (a), such *exemption* shall lapse at the end of four years from the date when s/he completed attendance at or passed the *course* if by that time s/he has not satisfied all the requirements for the degree, Master of Science in Dentistry.

c) Examination

i) The *examination* in each *course* shall normally be written but may include a variety of other modes of *assessment* such as oral, clinical and practical.

ii) The *examination* in each *course* shall be held:

A. at the end of the term in which the *course* is given, or

B. at the end of the subsequent term, or

C. in part at the end of the term in which the *course* is given and in part at the end of the subsequent term.

d) Re-examination

A *candidate* who fails any one or more or all of the *courses* prescribed for the degree may present herself/himself for re-*assessment* therein without further attendance; provided that such *exemption* from re-attendance shall lapse one year after s/he first presented herself/himself for *assessment*.

8.3.7 Master of Science in Medicine (MRA05; MCA08)

8.3.7.1 Admission rules

a) Admission requirements

Any of the following may be admitted as a *candidate*:

i) A graduate of the *University* who has been awarded one of the following degrees:

Bachelor of Dental Science;

Bachelor of Medicine and Bachelor of Surgery;

Bachelor of Nursing;

Bachelor of Science in Occupational Therapy;

Bachelor of Pharmacy;

Bachelor of Science in Physiotherapy;

Bachelor of Health Sciences with Honours;

Bachelor of Science with Honours.

ii) A graduate who has been awarded any other *qualification*, the normal *curriculum* of which extends over not less than four years' full-time study, of the *University*, who, in the opinion of the *Senate*, is sufficiently qualified to undertake the field of study proposed or research (or both), required for the *qualification*.

iii) Any other person who has satisfied the *Senate*, by means of a written or oral test (or both), or by any other mode of *assessment* to be determined from time to time by the *Senate*, that s/he is sufficiently qualified to undertake the line of study proposed or research (or both), required for the *qualification*.

8.3.7.2 Curriculum rules

a) Choice of curriculum

A *candidate* for the degree, Master of Science in Medicine shall either –

i) conduct a line of research approved by the *Senate* and submit to the satisfaction of the *Senate* a *Dissertation* based on that research.

ii) attend and pass such postgraduate *courses* as the *Senate* may determine and submit a *Research Report* on a topic approved by the *Senate*; or

b) Length of curriculum and requirements for degree by research in terms of Rule 8.3.7.2 (a)(i)

i) A *candidate* admitted under Rule 8.3.7.2 (a)(i) shall –

conduct, during not less than one *academic year* of full-time or two years of part-time study, research in a department of the Faculty of Health Sciences under the guidance of a supervisor appointed by the *Senate*.

c) Fields of study

Field of Study	Plan Code	Course Code	School
Anaesthetics	MFAANAE70	ANAE8000A	School of Clinical Medicine
Anatomical Pathology	MFAANAP70	ANAP8001A	School of Pathology
Anatomical Sciences	MFAANAT70	ANAT8001A	School of Anatomical Sciences
Biokinetics	MFABIOK70	STHS8000A	School of Therapeutic Sciences
Chemical Pathology	MFACHEP70	CHEP8001A	School of Pathology
Clinical and Experimental Pharmacology	MFACEXP70	PHAR8000A	School of Therapeutic Sciences
Clinical Microbiology and Infectious Diseases	MFACMID70	CMID8002A	School of Pathology
Community Health	MFACOMH70	COMH8001A	School of Public Health

Field of Study	Plan Code	Course Code	School
Critical Care	MFACRIT70	MEDC8001A	School of Clinical Medicine
Emergency Medicine	MFAEMED70	FAMH8000A	School of Clinical Medicine
Epidemiology and Biostatistics	MFAEPIB70	COMH8001A	School of Public Health
Exposure Science	MFAEXSC70	COMH8001A	School of Public Health
Family Medicine	MFAFAMH70	FAMH8000A	School of Clinical Medicine
Forensic Medicine	MFAFORM70	FORM8002A	School of Clinical Medicine
Haematology and Molecular Medicine	MFAHAEM70	HAEM8000A	School of Pathology
Health Sciences Education	MFASCMD70	SCMD8000A	School of Clinical Medicine
Human Genetics	MFAHUMG70	HUMG8000A	School of Pathology
Immunology	MFAIMML70	IMML8000A	School of Pathology
Internal Medicine	MFAMEDC70	MEDC8001A	School of Clinical Medicine
Material Science	MFAMATS70	OHSC8000A	School of Oral Health Sciences
Microbiology	MFAOMCB70	OHSC8000A	School of Oral Health Sciences
Nursing	MFANRSE70	NRSE8001A	School of Therapeutic Sciences
Obstetrics and Gynaecology	MFAOBSG70	OBSG8000A	School of Clinical Medicine
Occupational Therapy	MFAOCCT70	OCCT8000A	School of Therapeutic Sciences
Ophthalmology	MFAOPHT70	OPHT8002A	School of Clinical Medicine
Oral Biology	MFAORAB70	ANAT8001A	School of Anatomical Sciences
Oral Pathology	MFAOPAT70	OPAT8000A	School of Oral Health Sciences
Orthopaedic Surgery	MFAORTS70	ORTS8000A	School of Clinical Medicine
Paediatrics	MFAPAED70	PAED8000A	School of Clinical Medicine
Pharmacology	MFAPHAR70	PHAR8000A	School of Therapeutic Sciences

Field of Study	Plan Code	Course Code	School
Pharmacy	MFAPACY70	PACY8006A	School of Therapeutic Sciences
Physiology	MFAPHSL70	PHSL8000A	School of Physiology
Physiotherapy	MFAPHST70	PHST8000A	School of Therapeutic Sciences
Psychiatry	MFAPSMH70	PSMH8001A	School of Clinical Medicine
Public Health	MFAPUBH70	COMH8001A	School of Public Health
Radiation Oncology	MFARASE70	RASE8000A	School of Clinical Medicine
Rural Health	MFARURH70	COMH8001A	School of Public Health
Sport and Exercise Science	MFASPSC70	STHS8000A	School of Therapeutic Sciences
Sports Medicine	MFASPOM70	STHS8000A	School of Therapeutic Sciences
Surgery	MFASURG70	SURG8004A	School of Clinical Medicine
Therapeutic Sciences	MFASTHS70	STHS8000A	School of Therapeutic Sciences
Virology	MFAVIRL70	VIRL8001A	School of Pathology
Wits Reproductive and HIV Institute	MFAWRHI70	SCMD8000A	School of Clinical Medicine

d) Length of curriculum and requirements for degree by coursework and Research Report in terms of Rule 8.3.7.2 (a)(ii)

i) A *candidate* admitted under Rule 8.3.7.2(a)(ii) shall –

A. during a period of not less than one *academic year* of full-time study or two *academic years* of part-time study attend and pass such *courses* as the *Senate* may determine; and

B. conduct, under the direction of a supervisor appointed by the *Senate*, study on a topic approved by the *Senate* and submit, for the approval of the *Senate*, within a period determined by it and after s/he has consulted with her/his supervisor, a *Research Report* thereon of not more than twenty thousand words.

e) Fields of study

MSc(Med) in the field of Bioethics and Health Law

Programme Code: MCA08	NQF Exit Level: 9
Plan Code: MFABAHL60	Total NQF Credits: 180

Course Code	Description	NQF Credits	NQF Level
The *curriculum* in the field of Bioethics and Health Law extends over not less than one year of full-time study or two years of part-time study and comprises two parts with the following *courses*:			

Course Code	Description	NQF Credits	NQF Level
Part I			
SCMD7001A	Foundations of Health Law	18	9
SCMD7002A	Foundations of Bioethics	18	9
SCMD7003A	Advanced Research Ethics	18	9
SCMD7004A	Advanced Health Ethics	18	9
SCMD7005A	Research Methods	18	9
Part II			
SCMD7000A	Research Report (Bioethics and Health Law)	90	9

MSc(Med) in the field of Biology and Control of African Disease Vectors

Programme Code: MCA08	**NQF Exit Level: 9**
Plan Code: MFABCAD60	**Total NQF Credits: 180**

Course Code	Description	NQF Credits	NQF Level
The *curriculum* for the MSc(Med) in the field of Biology and Control of African Disease Vectors extends over not less than one *academic year* of full-time study, or two years of part-time study and comprises the following *courses*:			
VIRL7017A	Research Report	90	9
VIRL7013A	Introduction to Vector-Borne Diseases	15	9
VIRL7015A	Epidemiology and Statistics	15	9
VIRL7016A	Entomological Investigations	15	9
VIRL7014A	Vector Control	15	9
VIRL7012A	Principles of Programme Management	15	9
VIRL7011A	Field Training	15	9

MSc(Med) in the field of Biokinetics

Programme Code: MCA08	**NQF Exit Level: 9**
Plan Code: MFABIOK60	**Total NQF Credits: 180**

Course Code	Description	NQF Credits	NQF Level
The *curriculum* for the MSc (Med) in the field of Biokinetics extends over not less than two *academic years* of part-time study and comprises the following *courses*:			
Year of Study I			
STHS7002A	Exercise, Immunity and the Environment	10	9
STHS7004A	Nutrition, Healing and Rehabilitation	10	9
STHS7001A	Cardiorespiratory Physiology and Exercise	10	9
STHS7003A	Muscle Physiology and Metabolism	10	9

Course Code	Description	NQF Credits	NQF Level
STHS7000A	Wellness, Health Promotion and Rehabilitation	10	9
STHS7005A	Research Methods	10	9
Year of Study II			
STHS7017A	Advanced Orthopaedic Rehabilitation	10	9
STHS7016A	Advanced Chronic Disease Rehabilitation	10	9
STHS7009A	Clinical Practice	10	9
STHS7013A	Research Report	90	9

MSc(Med) in the field of Child Health

- **Community Paediatrics option**

Programme Code: MCA08	**NQF Exit Level: 9**
Plan Code: MFACHCP60	**Total NQF Credits:180**

Course Code	Description	NQF Credits	NQF Level
The *curriculum* for the MSc(Med) in the field of Child Health extends over not less than two *academic years* of part-time study and comprises Parts I and II. Part I and Part II will be offered sequentially in alternate years. Except by permission of the *Senate* a *candidate* may not proceed to Part II unless s/he has completed all *courses* prescribed for Part I.			
Part I			
PAED7016A	Introduction to Child Health	15	9
COMH7047A	Health Measurement I	15	9
PAED7010A	Child Health I	15	9
FAHS1595A	Special Requirements for Research Methodology	15	9
Part II			
PAED7019A	Child Health II	15	9
PAED7007A	Maternal Health	15	9
PAED7033A	Research Report	60	9
and **two** of the following elective *courses*:			
COMH7101A	Management in Health and Health Services	15	9
COMH7172A	The District Model in Primary Health Care	15	9
COMH7017A	Health Care Financing	15	9
COMH7040A	Health Systems and Decentralisation	15	9
COMH7015A	Project Management for Public Health Practitioners	15	9
PAED7028A	A Public Health Approach to Perinatal and Paediatric HIV	15	9
PAED7027A	Maternal and Child Nutrition	15	9
PAED7029A	Adolescent Health	15	9

Course Code	Description	NQF Credits	NQF Level
PAED7014A	Developmental Problems in Childhood	15	9
PAED7015A	Behavioural Problems in Childhood	15	9

- **Neurodevelopment option**

Programme Code: MCA08	**NQF Exit Level: 9**
Plan Code: MFACHND60	**Total NQF Credits: 180**

Course Code	Description	NQF Credits	NQF Level
The *curriculum* for the MSc(Med) in the field of Child Health extends over not less than two *academic years* of part-time study and comprises Parts I and II. Part I and Part II will be offered sequentially in alternate years. Except by permission of the *Senate* a *candidate* may not proceed to Part II unless s/he has completed all *courses* prescribed for Part I.			
Part I			
PAED7014A	Developmental Problems in Childhood	15	9
ANAT7011A	General Neuroanatomy	15	9
PHSL7004A	Principles of Physiology and Medical Biochemistry in relation to the Nervous System	15	9
FAHS1595A	Special Requirements for Research Methodology	15	9
Part II			
PAED7015A	Behavioural Problems in Childhood	15	9
PAED7008A	Paediatric Neurology	15	9
PSMH7000A	Psychological Medicine	15	9
PAED7032A	Research Report	60	9
COMH7047A *or* COMH7200A	Health Measurement I Epidemiology for Health Researchers	15	9

MSc(Med) in the field of Child Life and Paediatric Psychosocial Care

Programme Code: MCA08	**NQF Exit Level: 9**
Plan Code: MFACLPP60	**Total NQF Credits: 186**

Course Code	Description	NQF Credits	NQF Level
The *curriculum* for the MSc(Med) in the field of Child Life and Paediatric Psychosocial Care extends over not less than two years of part-time study and comprises the following *courses*:			
Year of Study I			
STHS7019A	Research Methodology for Health Sciences	6	9
STHS7020A	Child Development and Play: Birth to 18 years	30	9
STHS7021A	Ethics – Ethical, Professional and Cultural Issues	15	9

Course Code	Description	NQF Credits	NQF Level
Year of Study II			
STHS7022A	Family Systems, Loss and Death	15	9
STHS7023A	Child Life Speciality	30	9
STHS7024A	Research Report	90	9

MSc(Med) in the field of Clinical Pharmacy

Programme Code: MCA08	**NQF Exit Level: 9**
Plan Code: MFACPHY60	**Total NQF Credits: 195**

Course Code	Description	NQF Credits	NQF Level
The curriculum for the MSc(Med) in the field of Clinical Pharmacy extends over not less than two academic years of part-time study and comprises the following courses:			
Year of Study I			
PACY7022A	Research Methodology	15	9
PACY7008A	Health Management and Managed Care	15	9
PACY7011A	Clinical Laboratory Tests and the Interpretation thereof	10	9
PACY7021A	Clinical Trials	10	9
PACY7012A	Advanced Applied Pharmacokinetics	15	9
Year of Study II			
PACY7026A	Research Report	90	9
and **five** of the following elective courses:			
PACY7013A	Infectious Diseases Pharmacotherapeutics	8	9
PACY7014A	Cardiovascular Pharmacotherapeutics	8	9
PACY7015A	Respiratory Pharmacotherapeutics	8	9
PACY7016A	Gastrointestinal Pharmacotherapeutics	8	9
PACY7017A	Endocrinology Pharmacotherapeutics	8	9
PACY7018A	Psychopharmacotherapeutics	8	9
PACY7019A	Renal Pharmacotherapeutics	8	9
PACY7020A	Oncologic Pharmacotherapeutics	8	9

MSc(Med) in the field of Emergency Medicine

Programme Code: MCA08	**NQF Exit Level: 9**
Plan Code: MFAEMRM60	**Total NQF Credits: 180**

Course Code	Description	NQF Credits	NQF Level
The *curriculum* for the MSc(Med) in the field of Emergency Medicine extends over not less than one year of full-time study or two years of part-time study and comprises the following *courses*:			

Course Code	Description	NQF Credits	NQF Level
FAMH7021A	Resuscitation	15	9
FAMH7022A	Acute and Undifferentiated Presentations	15	9
FAMH7023A	Emergency Care I	15	9
FAMH7025A	Paediatric Emergencies	15	9
FAMH7026A	Toxicology	15	9
FAMH7027A	Pre-Hospital Care and Disaster Management	15	9
FAMH7028A	Research Report	90	9

MSc(Med) in the field of Exposure Science

Programme Code: MCA08	**NQF Exit Level: 9**
Plan Code: MFAEXSC60	**Total NQF Credits: 185**

Course Code	Description	NQF Credits	NQF Level
The *curriculum* for the MSc(Med) in the field of Exposure Science extends over not less than two years of part-time study and comprises the following *courses*:			
Year of Study I			
COMH7100A	Orientation to Public Health	0	9
COMH7104A	Introduction to Occupational and Environmental Health	15	9
COMH7297A	Exposure Induced Health Outcome	15	9
COMH7301A	Exposure Science I	15	9
COMH7298A	Fundamentals of Risk Assessment	15	9
COMH7295A	Exposure Control I	15	9
Year of Study II			
COMH7302A	Exposure Science II	10	9
COMH7299A	Exposure Assessment Methods I	10	9
COMH7300A	Exposure Assessment Methods II	10	9
COMH7304A	Computational Exposure Assessment	10	9
COMH7296A	Exposure Control II	10	9
COMH7305A	Research Report	60	9

MSc(Med) in the field of Genetic Counselling

Programme Code: MCA08	**NQF Exit Level: 9**
Plan Code: MFAGENC61	**Total NQF Credits: 180**

Course Code	Description	NQF Credits	NQF Level
The *curriculum* for the MSc(Med) in the field of Genetic Counselling extends over not less than two years of part-time study and comprises the following *courses*:			

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
HUMG7017A	Medical Genetics for Genetic Counsellors I	30	9
HUMG7018A	Medical Genetics for Genetic Counsellors II	30	9
HUMG7019A	Principles of Genetic Counselling	20	9
Year of Study II			
HUMG7020A	Practices of Genetic Counselling	40	9
HUMG7016A	Research Report	60	9

MSc(Med) in the field of Genomic Medicine

Programme Code: MCA08	**NQF Exit Level: 9**
Plan Code: MFAGENMC60	**Total NQF Credits: 180**

Course Code	Description	NQF Credits	NQF Level
The *curriculum* for the MSc(Med) in the field of Genomic Medicine extends over not less than one year of full-time study or two years of part-time study and comprises the following *courses*:			
HUMG7025A	Research Methodology	35	9
HUMG7027A	Fundamentals of Human Genetics and Genomics	25	9
HUMG7029A	Omics Techniques and Application in Genomic Medicine	15	9
HUMG7028A	Genomics of Common and Rare Diseases	25	9
HUMG7026A	Bioinformatics Analysis and Interpretation of Next Generation Sequencing Data	15	9
HUMG7030A	Precision Medicine	5	9
HUMG7031A	Research Report	60	9

MSc(Med) in the field of Pharmaceutical Affairs

Programme Code: MCA08	**NQF Exit Level: 9**
Plan Code: MFAPHAF60	**Total NQF Credits: 180**

Course Code	Description	NQF Credits	NQF Level
The *curriculum* for the MSc(Med) in the field of Pharmaceutical Affairs extends over not less than two years of part-time study and comprises the following *courses*:			
Year of Study I			
PACY7021A	Clinical Trials	15	9
PACY7007A	Pharmaceutical Production	15	9
PACY7028A	Pharmaco-economics	10	9
Year of Study II			
PACY7022A	Research Methodology	15	9

Course Code	Description	NQF Credits	NQF Level
PACY7004A	Regulatory Affairs and Medicine Registration	10	9
PACY7006A	Medicines Control	10	9
PACY7008A	Management	15	9
PACY7025A	Research Report	90	9

MSc(Med) in the field of Sports Medicine

Programme Code: MCA08	**NQF Exit Level: 9**
Plan Code: MFASPOM60	**Total NQF Credits: 180**

Course Code	Description	NQF Credits	NQF Level
The *curriculum* for the MSc (Med) in the field of Sports Medicine extends over not less than two years of part-time study and comprises the following *courses*:			
Year of Study I			
STHS7003A	Muscle Physiology and Metabolism	10	9
STHS7001A	Cardiorespiratory Physiology and Exercise	10	9
STHS7005A	Research Methods	10	9
STHS7002A	Exercise, Immunity and the Environment	10	9
STHS7000A	Wellness, Health Promotion and Rehabilitation	10	9
STHS7004A	Nutrition, Healing and Rehabilitation	10	9
Year of Study II			
STHS7007A	Management of Upper body Injuries	10	9
STHS7008A	Management of Lower body Injuries	10	9
STHS7009A	Clinical Practice	10	9
STHS7014A	Research Report	90	9

MSc(Med) in the field of Sports Science

Programme Code: MCA08	**NQF Exit Level: 9**
Plan Code: MFASPSC60	**Total NQF Credits: 180**

Course Code	Description	NQF Credits	NQF Level
The *curriculum* for the MSc (Med) in the field of Sports Science extends over not less than two years of part-time study and comprises the following *courses*:			
Year of Study I			
STHS7003A	Muscle Physiology and Metabolism	10	9
STHS7001A	Cardiorespiratory Physiology and Exercise	10	9
STHS7005A	Research Methods	10	9
STHS7002A	Exercise, Immunity and the Environment	10	9

Course Code	Description	NQF Credits	NQF Level
STHS7000A	Wellness, Health Promotion and Rehabilitation	10	9
STHS7004A	Nutrition, Healing and Rehabilitation	10	9
Year of Study II			
STHS7010A	Exercise Testing and Advanced Exercise Principles	10	9
STHS7011A	Advanced Coaching, Conditioning, Sports Vision and Optimisation of Sports Performance	10	9
STHS7012A	Laboratory Practicum	10	9
STHS7015A	Research Report	90	9

MSc(Med) in the field of Vaccinology

Programme Code: MCA08	**NQF Exit Level: 9**
Plan Code: MFAVACC61	**Total NQF Credits: 180**

Course Code	Description	NQF Credits	NQF Level
The *curriculum* for the MSc (Med) in the field of Vaccinology extends over not less than one year of full-time study or two years of part-time study and comprises the following *courses*:			
COMH7200A	Epidemiology for Health Researchers I	15	9
SPAT7011A	Basic Immunology	10	9
SPAT7005A	Applied Immunology	10	9
SPAT7010A	Basic Vaccinology	10	9
SPAT7006A	Applied Vaccinology	10	9
SPAT7008A	Vaccine Development	10	9
SPAT7009A	Vaccines and Public Health	10	9
SPAT7004A	Applied Epidemiology and Statistics	5	9
CMID7037A	Clinical Microbiology and Infectious Diseases for Vaccinologists	5	9
CMID7038A	Project Management for Health Researchers	5	9
SPAT7002A	Vaccinology Research Report I	30	9
SPAT7003A	Vaccinology Research Report II	60	9

MSc(Med) in the field of Vaccinology

Programme Code: MCA08	**NQF Exit Level: 9**
Plan Code: MFAVACC60	**Total NQF Credits: 180**

Course Code	Description	NQF Credits	NQF Level
The *curriculum* for the MSc (Med) in the field of Vaccinology extends over not less than one year of full-time study or two years of part-time study and comprises the following *courses*:			

Course Code	Description	NQF Credits	NQF Level
SPAT7000A	Vaccinology Coursework	90	9
SPAT7001A	Research Report	90	9

8.3.8 Master of Science in Epidemiology (by coursework and Research Report) (MCA16)

8.3.8.1 Admission rules

a) Admission requirements

Any one of the following persons may be admitted as a *candidate*:

i) A graduate of the *University* who has been awarded:

Bachelor of Dental Science;

Bachelor of Medicine and Bachelor of Surgery;

Bachelor of Nursing;

Bachelor of Science in Occupational Therapy;

Bachelor of Pharmacy;

Bachelor of Science in Physiotherapy;

Bachelor of Health Sciences with Honours;

Bachelor of Science with Honours.

ii) A graduate who has been awarded any other *qualification*, the normal *curriculum* of which extends over not less than four years of full-time study, who, in the opinion of the *Senate*, is sufficiently qualified to undertake the field of study proposed.

iii) Any other person who has satisfied the *Senate*, by means of a written or oral test (or both), or by any other mode of *assessment* to be determined from time to time by the *Senate*, that s/he is sufficiently qualified to undertake the line of study proposed.

8.3.8.2 Curriculum rules

a) Length of programme and requirements for degree by coursework and Research Report

i) A *candidate* admitted under Rule 8.3.8.1 shall –

A. during a period of not less than one and a half *academic years* of full-time study or three *academic years* of part-time study attend and pass such *courses* as the *Senate* may determine; and

B. under the direction of a supervisor appointed by the *Senate*, submit a *Research Report* on a topic approved by the *Senate*.

b) Fields of study

Field of Epidemiology and Biostatistics

Programme Code: MCA16	NQF Exit Level: 9
Plan Code: MFAEBIO61	Total NQF Credits: 360

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
COMH7100A	Orientation to Public Health	0	9

Course Code	Description	NQF Credits	NQF Level
COMH7294A	Introduction to Computing in Biostatistics	15	9
COMH7200A	Epidemiology for Health Researchers I	15	9
COMH7201A	Epidemiology for Health Researchers II	15	9
COMH7202A	Epidemiology for Health Researchers III	15	9
COMH7062A	Biostatistics for Health Researchers I	15	9
COMH7063A	Biostatistics for Health Researchers II	15	9
COMH7066A	Biostatistics for Health Researchers III	15	9
COMH7067A	Introduction to Demographics Methods	15	9
COMH7060A	Research Protocol Development	15	9
COMH7070A	Surveillance	15	9
and a minimum of **one** of the following two *courses*:			
COMH7218A	Communicable Disease Epidemiology	15	9
COMH7208A	Non-Communicable Disease Epidemiology	15	9
and **one** *course* from the following list (if only one *course* is selected from the list above)			
COMH7061A	Applied Field Epidemiology	15	9
COMH7083A	Integration of Qualitative and Quantitative Research Methods	15	9
COMH7114A	Clinical Epidemiology	15	9
COMH7220A	Clinical Trials	15	9
Year of Study II			
COMH7177A	Research Report	180	9

Field of Field Epidemiology

Programme Code: MCA16	**NQF Exit Level: 9**
Plan Code: MFAFEPI60	**Total NQF Credits: 360**

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
COMH7100A	Orientation to Public Health	0	9
COMH7294A	Introduction to Computing in Biostatistics	15	9
COMH7200A	Epidemiology for Health Researchers I	15	9
COMH7201A	Epidemiology for Health Researchers II	15	9
COMH7062A	Biostatistics for Health Researchers I	15	9
COMH7063A	Biostatistics for Health Researchers II	15	9
COMH7067A	Introduction to Demographic Methods	15	9
COMH7060A	Research Protocol Development	15	9

Course Code	Description	NQF Credits	NQF Level
COMH7061A	Applied Field Epidemiology	15	9
COMH7255A	Data Management for Clinical Research Studies	15	9
COMH7070A	Surveillance	15	9
COMH7244A	Longitudinal Data and Event History Analysis	15	9
COMH7293A	Monitoring and Evaluation for Health Programmes	15	9
Year of Study II			
COMH7065A	Field Based Research Project	180	9

Field of Infectious Disease Epidemiology

Programme Code: MCA16	**NQF Exit Level: 9**
Plan Code: MFAIDEP61	**Total NQF Credits: 360**

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
COMH7100A	Orientation to Public Health	0	9
COMH7294A	Introduction to Computing in Biostatistics	15	9
COMH7200A	Epidemiology for Health Researchers I	15	9
COMH7201A	Epidemiology for Health Researchers II	15	9
COMH7202A	Epidemiology for Health Researchers III	15	9
COMH7062A	Biostatistics for Health Researchers I	15	9
COMH7063A	Biostatistics for Health Researchers II	15	9
COMH7060A	Research Protocol Development	15	9
COMH7070A	Surveillance	15	9
COMH7218A	Communicable Disease Epidemiology	15	9
COMH7290A	Infectious Disease Modelling	15	9
and **two** of the following elective *courses*:			
COMH7066A	Biostatistics for Health Researchers III	15	9
COMH7067A	Introduction to Demographics Methods	15	9
VIRL7013A	Introduction to Vector-Borne Diseases	15	9
VIRL7014A	Vector Control	15	9
Year of Study II			
COMH7177A	Research Report	180	9

Field of Public Health Informatics

Programme Code: MCA16	NQF Exit Level: 9
Plan Code: MFAPHIN60	Total NQF Credits: 360

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
COMH7100A	Orientation to Public Health	0	9
COMH7294A	Introduction to Computing in Biostatistics	15	9
COMH7200A	Epidemiology for Health Researchers I	15	9
COMH7062A	Biostatistics for Health Researchers I	15	9
COMH7063A	Biostatistics for Health Researchers II	15	9
COMH7244A	Longitudinal Data and Event History Analysis	15	9
COMH7256A	Principles and Operation of Relational Databases	15	9
COMH7257A	Health and Demography Surveillance Database Systems	15	9
COMH7245A	Introduction to Data Management Systems, Structures and Models	15	9
COMH7258A	Programming for Research Data Management I	15	9
COMH7255A	Data Management for Clinical Research Studies	15	9
COMH7238A	Data Processing, Distribution and Archiving I	15	9
COMH7060A	Research Protocol Development	15	9
Year of Study II			
COMH7065A	Field Based Research Project	180	9

Field of Implementation Science

Programme Code: MCA16	NQF Exit Level: 9
Plan Code: MFAIMPS60	Total NQF Credits: 360

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
COMH7100A	Orientation to Public Health	0	9
COMH7294A	Introduction to Computing in Biostatistics	15	9
COMH7200A	Epidemiology for Health Researchers I	15	9
COMH7062A	Biostatistics for Health Researchers I	15	9
COMH7063A	Biostatistics for Health Researchers II	15	9
COMH7060A	Research Protocol Development	15	9
COMH7260A	Implementation Science I	15	9
COMH7291A	Quality Improvement Science	15	9
COMH7293A	Monitoring and Evaluation for Health Programmes	15	9

Course Code	Description	NQF Credits	NQF Level
COMH7287A	Introdution to Health Economics	15	9
COMH7265A	Adapting, Implementing and Evaluating Evidence-Based Interventions	15	9
and **one** of the following two *courses*:			
COMH7266A	Longitudinal Analysis and Causal Inference	15	9
COMH7083A	Integration of Qualitative and Quantitative Research Methods	15	9
and **one** of the following elective *courses*:			
COMH7268A	Spatial Analysis and GIS in Public Health	15	9
COMH7255A	Data Management for Clinical Research Studies	15	9
Year of Study II			
COMH7065A	Field Based Research Project	180	9

Field of Biostatistics

Programme Code: MCA16	**NQF Exit Level: 9**
Plan Code: MFABIOS60	**Total NQF Credits: 360**

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
COMH7100A	Orientation to Public Health	0	9
COMH7294A	Introduction to Computing in Biostatistics	15	9
COMH7200A	Epidemiology for Health Researchers I	15	9
COMH7250A	Introduction to Statistical Theory in Health Research	15	9
COMH7063A	Biostatistics for Health Researchers II	15	9
COMH7248A	Generalised Linear Models in Health Research	15	9
COMH7247A	Bayesian Methods in Health Research	15	9
COMH7207A	Statistical Issues in Randomised Controlled Trials	15	9
COMH7253A	Survey Methods in Health Research	15	9
COMH7251A	Modern Biostatistical Methods	7	9
COMH7252A	Statistical Consulting in Health Research	8	9
COMH7060A	Research Protocol Development	15	9
and **two** of the following elective *courses*:			
COMH7290A	Infectious Disease Modelling	15	9
COMH7201A	Epidemiology for Health Researchers II	15	9
COMH7202A	Epidemiology for Health Researchers III	15	9

Course Code	Description	NQF Credits	NQF Level
COMH7246A	Applied Spatial Statistics for Health Research	15	9
Year of Study II			
COMH7177A	Research Report	180	9

8.3.8.3 Progression and completion rules

a) Credit

A *candidate* shall obtain *credit* in any of the *courses* prescribed and selected in terms of Rule 8.3.8.2 (b) if s/he has successfully completed all the requirements for the said *course* or *courses*.

b) Supplementary Examination

Any *candidate* who fails one of the *courses* included in her/his *curriculum* for any year of study may be permitted by the *Senate* to present herself/himself for a supplementary *examination* in that *course*.

c) Assessments

The *assessments* in the *courses* offered in terms of Rules 8.3.8.2 (b) shall be written, oral, practical, by continuous *assessment* or by a combination of these methods as the *Senate* may determine in each case.

8.3.9 Master of Science in Nursing (MRA02; MCA15)

Note: The South African Nursing Council has recognised this *qualification* for the purpose of registration of an additional *qualification* in one of the following fields of nursing if the graduate has not already registered in that field of nursing: Infection Control, Intensive Care Nursing, Child Nursing, Trauma Nursing, Oncology Nursing, Nephrology Nursing, Occupational Health Nursing, Community Health Nursing, Advanced Psychiatric Nursing and Nursing Education, in terms of Rule 8.3.9.2 (c).

8.3.9.1 Admission rules

a) Admission requirements

Any of the following may be admitted as a *candidate* for the degree provided that s/he is qualified for registration as a general nurse with the South African Nursing Council and provided that s/he has satisfied the *Senate* that s/he is qualified to undertake the line of study proposed or research (or both):

i) The holder of a Bachelor of Science in Nursing or a Bachelor of Nursing of the *University*.

ii) A graduate of *any other university* who has satisfied the *Senate* by means of a written or oral test (or both) or by means of any other mode of *assessment* to be determined from time to time by the *Senate* that s/he is qualified to undertake the line of study proposed or research (or both).

iii) A person other than a graduate who has in the manner set out in b) above satisfied the *Senate*.

8.3.9.2 Curriculum rules

a) Choice of proceeding

A *candidate* for the degree, Master of Science in Nursing may elect to:

i) conduct a line of research approved by the *Senate* and submit a *Dissertation* based on that research; or

ii) attend and pass the *courses*, approved by the *Senate* and submit a *Research Report* on a topic approved by the *Senate*.

b) Proceeding by research in terms of 8.3.9.2 (a)(i)

Programme Code: MRA02	NQF Exit Level: 9
Plan Code: MPANUR70	Total NQF Credits: 180

Course Code	Description	NQF Credits	NQF Level
NRSE8000A	MSc(Nurs) Dissertation	180	9

A *candidate* admitted under Rule 8.3.9.2 (a)(i) shall –

i) under the direction of a supervisor appointed by the *Senate*, conduct, during not less than one *academic year* of full-time study, research on a topic approved by the *Senate*; and

ii) if so required by the *Senate*, attend and pass such *courses* as may be determined by it in her/his case.

c) Proceeding by coursework and Research Report in terms of 8.3.9.2 (a)(ii)

A *candidate* admitted under Rule 8.3.9.2 (a)(ii) shall –

i) during a period of not less than two years of part-time study attend and pass the *courses* approved by the *Senate* selected from those listed in Rule 8.3.9.2 (d) below; and

ii) conduct under the direction of a supervisor appointed by the *Senate*, research on a topic approved by the *Senate* and submit, not earlier than six months and not later than two years after the completion of the *courses* referred to under Rule 8.3.9.2 (d) hereof and after consultation with the supervisor, a *Research Report* of not more than twenty thousand words for the approval of the *Senate*.

d) Fields of study

Field of Infection Control

Programme Code: MCA15	NQF Exit Level: 9
Plan Code: MFAINFC60	Total NQF Credits: 180

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
NRSE7000A	Basic Sciences related to Advanced Nursing Studies	30	9
NRSE7025A	Professional Nursing Dynamics II	30	9
Year of Study II			
CMID7031A	Infection Control	30	9
NRSE7029A	Research Report	90	9

Field of Intensive Care Nursing

Programme Code: MCA15	NQF Exit Level: 9
Plan Code: MFAINTC60	Total NQF Credits: 180

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
NRSE7000A	Basic Sciences related to Advanced Nursing Studies	30	9
NRSE7025A	Professional Nursing Dynamics II	30	9
Year of Study II			
NRSE7011A	Intensive Care Nursing Science	30	9
NRSE7029A	Research Report	90	9

Field of Child Nursing

Programme Code: MCA15	NQF Exit Level: 9
Plan Code: MFACNUR60	Total NQF Credits: 180

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
NRSE7000A	Basic Sciences related to Advanced Nursing Studies	30	9
NRSE7025A	Professional Nursing Dynamics II	30	9
Year of Study II			
NRSE7012A	Child Nursing Science	30	9
NRSE7029A	Research Report	90	9

Field of Trauma and Emergency Nursing

Programme Code: MCA15	NQF Exit Level: 9
Plan Code: MFATREM60	Total NQF Credits: 180

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
NRSE7000A	Basic Sciences related to Advanced Nursing Studies	30	9
NRSE7025A	Professional Nursing Dynamics II	30	9
Year of Study II			
NRSE7018A	Trauma and Emergency Nursing Science	30	9
NRSE7029A	Research Report	90	9

Field of Nephrology Nursing

Programme Code: MCA15	NQF Exit Level: 9
Plan Code: MFANEPH60	Total NQF Credits: 180

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
NRSE7000A	Basic Sciences related to Advanced Nursing Studies	30	9
NRSE7025A	Professional Nursing Dynamics II	30	9
Year of Study II			
NRSE7021A	Nephrology Nursing Science	30	9
NRSE7029A	Research Report	90	9

Field of Oncology and Palliative Nursing

Programme Code: MCA15	NQF Exit Level: 9
Plan Code: MFAONCP60	Total NQF Credits: 180

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
NRSE7000A	Basic Sciences related to Advanced Nursing Studies	30	9
NRSE7025A	Professional Nursing Dynamics II	30	9
Year of Study II			
NRSE7022A	Oncology and Palliative Nursing Science	30	9
NRSE7029A	Research Report	90	9

Field of Advanced Psychiatric Nursing

Programme Code: MCA15	NQF Exit Level: 9
Plan Code: MFAPSYC61	Total NQF Credits: 180

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
NRSE7000A	Basic Sciences related to Advanced Nursing Studies	30	9
NRSE7025A	Professional Nursing Dynamics II	30	9
Year of Study II			
NRSE7004A	Advanced Psychiatric Nursing	30	9
NRSE7029A	Research Report	90	9

Field of Occupational Health Nursing

Programme Code: MCA15	NQF Exit Level: 9
Plan Code: MFANOCH60	Total NQF Credits: 180

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
NRSE7000A	Basic Sciences related to Advanced Nursing Studies	30	9
NRSE7025A	Professional Nursing Dynamics II	30	9
Year of Study II			
NRSE7013A	Occupational Health Nursing Science	30	9
NRSE7029A	Research Report	90	9

Field of Advanced Nursing Education

Programme Code: MCA15	NQF Exit Level: 9
Plan Code: MFANRED60	Total NQF Credits: 180

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
NRSE7000A	Basic Sciences related to Advanced Nursing Studies	30	9
NRSE7025A	Professional Nursing Dynamics II	30	9
Year of Study II			
NRSE7015A	Advanced Nursing Education	30	9
NRSE7029A	Research Report	90	9

8.3.9.3 Progression and completion rules

a) Assessment

i) The *Senate* may permit a *candidate* who has completed two *courses* to present herself/himself for supplementary *examination* in the *course* s/he has failed to complete.

ii) In a case considered by it to be exceptional, the *Senate* may permit a *candidate* who has completed only one *course* to present herself/himself for supplementary *examination* in the *courses* s/he has failed to complete.

iii) A *candidate* who is proceeding on a part-time *curriculum* shall obtain *credit* for any *course* or *courses* completed in the first and second years of study.

iv) A *candidate* who is proceeding on a part-time *curriculum* may be permitted by the *Senate* to present herself/himself for supplementary *examination* in any *course* that s/he fails to complete.

8.3.10 Master of Science in Occupational Therapy (MRA01; MCA11)

8.3.10.1 Admission rules

a) Admission requirements

Any of the following may be admitted as a *candidate* for the degree provided that s/he is registered as an occupational therapist with the Health Professions Council of South Africa: Provided that the *Senate* is satisfied that the *applicant* is qualified to undertake the line of study proposed or research (or both):

i) The holder of a Bachelor of Science in Occupational Therapy of the *University*.

ii) A graduate of *any other university* who has satisfied the *Senate* by means of a written or oral test (or both) or by means of any other mode of *assessment* to be determined from time to time by the *Senate* that s/he is qualified to undertake the line of study proposed or research (or both).

8.3.10.2 Curriculum rules

a) Choice of proceeding

A *candidate* for the degree, Master of Science in Occupational Therapy may elect to:

i) conduct a line of research approved by the *Senate* and submit a *Dissertation* based on that research; or

ii) attend and pass the *courses* listed in Rule 8.3.10.2 (d) and submit a *Research Report* on a topic approved by the *Senate*.

b) Proceeding by research in terms of Rule 8.3.10.2 (a)(i)

Programme Code: MRA01	**NQF Exit Level: 9**
Plan Code: MPAOCT70	**Total NQF Credits: 180**

Course Code	Description	NQF Credits	NQF Level
OCCT8000A	MSc(OT) *Dissertation*	180	9

A *candidate* admitted in terms of Rule 8.3.10.2 (a)(i) shall –

i) under the direction of a supervisor appointed by the *Senate*, conduct, during not less than one *academic year* of full-time study, research in a topic approved by the *Senate*; and

ii) if so required by the *Senate*, attend and pass such *courses* as may be determined by it in her/his case:

c) Proceeding by coursework and Research Report in terms of 8.3.10.2 (a)(ii)

A *candidate* admitted under Rule 8.3.10.2 (a)(ii) shall –

i) during a period of not less than two *academic years* of part-time study attend and pass the *courses* listed in Rule 8.3.10.2 (d) below; and

ii) conduct under the direction of a supervisor appointed by the *Senate* study and research on a topic approved by the *Senate* and submit not earlier than six months and not later than two years after completion of the *courses* referred to in Rule 8.3.10.2 (d) hereof and after consultation with the supervisor, a *Research Report* for the approval of the *Senate*.

d) Fields of study

The degree Master of Science in Occupational Therapy is offered in the following fields of study:

Neurological Disorders : (MFANDIS60)

Perceptual Disorders : (MFAPDIS60)

Psychiatric Disorders : (MFAPSYD60)

Field of Neurological Disorders

Programme Code: MCA11	**NQF Exit Level: 9**
Plan Code: MFANDIS60	**Total NQF Credits: 180**

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
OCCT7029A	Research Methodology	15	9
ANAT7011A	General Neuroanatomy	15	9
PHSL7017A	Applied Neurophysiology	15	9
OCCT7032A	Occupational Science and Models of Practice	15	9
OCCT7034A	Research Report I	15	9
Year of Study II			
OCCT7035A	Research Report II	75	9
OCCT7030A	Occupational Therapy Treatment of Neurological Disorders	30	9

Field of Perceptual Disorders

Programme Code: MCA11	**NQF Exit Level: 9**
Plan Code: MFAPDIS60	**Total NQF Credits: 180**

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
OCCT7029A	Research Methodology	15	9
ANAT7011A	General Neuroanatomy	15	9
PHSL7017A	Applied Neurophysiology	15	9
OCCT7032A	Occupational Science and Models of Practice	15	9
OCCT7034A	Research Report I	15	9
Year of Study II			
OCCT7035A	Research Report II	75	9
OCCT7031A	Occupational Therapy Treatment of Perceptual Disorders	30	9

Field of Psychiatric Disorders

Programme Code: MCA11	**NQF Exit Level: 9**
Plan Code: MFAPSYD60	**Total NQF Credits: 180**

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
OCCT7029A	Research Methodology	15	9
ANAT7011A	General Neuroanatomy	15	9
PHSL7017A	Applied Neurophysiology	15	9
OCCT7032A	Occupational Science and Models of Practice	15	9
OCCT7034A	Research Report I	15	9
Year of Study II			
OCCT7035A	Research Report II	75	9
OCCT7033A	Occupational Therapy Treatment of Psychiatric Disorders	30	9

8.3.10.3 Progression and completion rules

a) Assessment

i) The *Senate* may permit a *candidate* who has completed two *courses* to present herself/himself for supplementary *examination* in the *course* s/he has failed to complete.

ii) In a case considered by it to be exceptional, the *Senate* may permit a *candidate* who has completed only one *course* to present herself/himself for supplementary *examination* in the *courses* s/he has failed to complete.

iii) A *candidate* who is proceeding on a part-time *curriculum* shall obtain *credit* for any *course* or *courses* completed in the first and second years of study.

iv) A *candidate* who is proceeding on a part-time *curriculum* may be permitted by the *Senate* to present herself/himself for supplementary *examination* in any *course* that s/he fails to complete.

8.3.11 Master of Science in Physiotherapy (MRA00; MCA12)

8.3.11.1 Admission rules

a) Admission requirements

Any of the following may be admitted as a *candidate* for the degree provided that s/he is registered as a physiotherapist with the Health Professions Council of South Africa: Provided that the *Senate* is satisfied that the *applicant* is qualified to undertake the line of study proposed or research (or both):

i) The holder of a Bachelor of Science in Physiotherapy of the *University*.

ii) A graduate of *any other university* who has satisfied the *Senate* by means of a written or oral test (or both) or by means of any other mode of *assessment* to be determined from time to time by the *Senate* that s/he is qualified to undertake the line of study proposed or research (or both).

iii) A person other than a graduate who has in the manner set out in (ii) above satisfied the *Senate*.

8.3.11.2 Curriculum rules

a) Choice of curriculum

A *candidate* for the degree, Master of Science in Physiotherapy may elect to:

i) conduct a line of research approved by the *Senate* and submit a *Dissertation* based on that research; or

ii) attend and pass the *courses*, approved by the *Senate*, selected from those listed under Rule 8.3.11.2 (c), and submit a *Research Report* on a research topic approved by the *Senate*.

b) Proceeding by research in terms of Rule 8.3.11.2 (a)(i)

Programme Code: MRA00	**NQF Exit Level: 9**
Plan Code: MPAPHY70	**Total NQF Credits: 180**

Course Code	Description	NQF Credits	NQF Level
PHST8000A	MSc(Physio) *Dissertation*	180	9

A *candidate* admitted under Rule 8.3.11.2 (a)(i) shall –

i) under the direction of a supervisor appointed by the *Senate*, conduct, during not less than one *academic year* of full-time study, advanced study and research on a topic approved by the *Senate*; where in the opinion of the *Senate* the topic on which the *candidate* proposes to present her/his *Dissertation* requires it, the *candidate* shall hold a suitable post in an institution approved by the *Senate*, and shall, in that event, be deemed to be prosecuting part-time research; and

ii) if so required by the *Senate*, attend and pass such *courses* as may be determined by it in her/his case.

c) Proceeding by coursework and Research Report in terms of 8.3.11.2 (a)(ii)

A *candidate* admitted under Rule 8.3.11.2 (a)(ii) shall –

i) during a period of not less than one *academic year* of full-time study or two years of part-time study attend and pass the *courses* approved by the *Senate* selected from those listed in Rule 8.3.11.2 (d) below; and

ii) conduct, under the direction of a supervisor appointed by the *Senate*, research on a topic approved by the *Senate* and submit, not earlier than six months and not later than two years after completion of the *courses* referred to under Rule 8.3.11.2 (d). hereof and after consultation with the supervisor, a *Research Report* of not more than twenty thousand words for the approval of the *Senate*.

d) Fields of study

The degree Master of Science in Physiotherapy is offered in the following fields of study:

Community Physiotherapy	: (MFACOMP60)
Neurology and Neurosurgery Physiotherapy	: (MFANNSP60)
Orthopaedic Manipulative Therapy	: (MFAOMTP60)
Orthopaedic Surgery Physiotherapy	: (MFAORSP60
Paediatric Physiotherapy	: (MFAPEDP60)
Physiotherapeutic Musculoskeletal Pain Management	: (MFAPMPM60)
Respirology, Cardiology and Cardiothoracic Surgery Physiotherapy	: (MFARCCS60)

Sports and Exercise Physiotherapy : (MFASPEP60)

Traumatology Physiotherapy : (MFATRMP60)

Field of Community Physiotherapy

Programme Code: MCA57	NQF Exit Level: 9
Plan Code: MFACOMP60	Total NQF Credits: 180

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
PHST7000A	Research Methodology	15	9
ANAT7012A	Applied Anatomy	15	9
ANAP7007A	Applied Pathology for Physiotherapists	15	9
PHSL7016A	Applied General Physiology	15	9
PHST7010A	Research Report I	15	9
Year of Study II			
COMH7099A	Community Physiotherapy	30	9
PHST7011A	Research Report II	75	9

Field of Neurology and Neurosurgery Physiotherapy

Programme Code: MCA57	NQF Exit Level: 9
Plan Code: MFANNSP60	Total NQF Credits: 180

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
PHST7000A	Research Methodology	15	9
ANAT7012A	Applied Anatomy	15	9
ANAP7007A	Applied Pathology for Physiotherapists	15	9
PHSL7016A	Applied General Physiology	15	9
PHST7010A	Research Report I	15	9
Year of Study II			
MEDC7000A	Neurology and Neurosurgery for Physiotherapists	30	9
PHST7011A	Research Report II	75	9

Field of Orthopaedic Manipulative Physiotherapy

Programme Code: MCA57	NQF Exit Level: 9
Plan Code: MFAOMTP60	Total NQF Credits: 180

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
PHST7000A	Research Methodology	15	9
ANAT7012A	Applied Anatomy	15	9
ANAP7007A	Applied Pathology for Physiotherapists	15	9
PHSL7016A	Applied General Physiology	15	9
PHST7010A	Research Report I	15	9
Year of Study II			
PHST7004A	Orthopaedic Manipulative Therapy	30	9
PHST7011A	Research Report II	75	9

Field of Orthopaedic Surgery Physiotherapy

Programme Code: MCA57	NQF Exit Level: 9
Plan Code: MFAORSP60	Total NQF Credits: 180

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
PHST7000A	Research Methodology	15	9
ANAT7012A	Applied Anatomy	15	9
ANAP7007A	Applied Pathology for Physiotherapists	15	9
PHSL7016A	Applied General Physiology	15	9
PHST7010A	Research Report I	15	9
Year of Study II			
ORTS7000A	Orthopaedic Surgery for Physiotherapists	30	9
PHST7011A	Research Report II	75	9

Field of Paediatric Physiotherapy

Programme Code: MCA57	NQF Exit Level: 9
Plan Code: MFAPEDP60	Total NQF Credits: 180

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
PHST7000A	Research Methodology	15	9
ANAT7012A	Applied Anatomy	15	9

Course Code	Description	NQF Credits	NQF Level
ANAP7007A	Applied Pathology for Physiotherapists	15	9
PHSL7016A	Applied General Physiology	15	9
PHST7010A	Research Report I	15	9
Year of Study II			
PAED7011A	Paediatrics for Physiotherapists	30	9
PHST7011A	Research Report II	75	9

Field of Physiotherapeutic Musculoskeletal Pain Management

Programme Code: MCA57	**NQF Exit Level: 9**
Plan Code: MFAPMPM60	**Total NQF Credits: 180**

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
PHST7000A	Research Methodology	15	9
ANAT7012A	Applied Anatomy	15	9
ANAP7007A	Applied Pathology for Physiotherapists	15	9
PHSL7016A	Applied General Physiology	15	9
PHST7010A	Research Report I	15	9
Year of Study II			
PHST7008A	Physiotherapeutic Musculoskeletal Pain Management	30	9
PHST7011A	Research Report II	75	9

Field of Respirology, Cardiology and Cardiothoracic Surgery Physiotherapy

Programme Code: MCA57	**NQF Exit Level: 9**
Plan Code: MFARCCS60	**Total NQF Credits: 180**

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
PHST7000A	Research Methodology	15	9
ANAT7012A	Applied Anatomy	15	9
ANAP7007A	Applied Pathology for Physiotherapists	15	9
PHSL7016A	Applied General Physiology	15	9
PHST7010A	Research Report I	15	9
Year of Study II			
PHST7002A	Respirology, Cardiology and Cardiothoracic Surgery for Physiotherapists	30	9
PHST7011A	Research Report II	75	9

Field of Sport and Exercise Physiotherapy

Programme Code: MCA57	NQF Exit Level: 9
Plan Code: MFASPEP60	Total NQF Credits: 180

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
PHST7000A	Research Methodology	15	9
ANAT7012A	Applied Anatomy	15	9
ANAP7007A	Applied Pathology for Physiotherapists	15	9
PHSL7016A	Applied General Physiology	15	9
PHST7010A	Research Report I	15	9
Year of Study II			
PHST7003A	Sport and Exercise Physiotherapy	30	9
PHST7011A	Research Report II	75	9

Field of Traumatology Physiotherapy

Programme Code: MCA57	NQF Exit Level: 9
Plan Code: MFATRMP60	Total NQF Credits: 180

Course Code	Description	NQF Credits	NQF Level
Year of Study I			
PHST7000A	Research Methodology	15	9
ANAT7012A	Applied Anatomy	15	9
ANAP7007A	Applied Pathology for Physiotherapists	15	9
PHSL7016A	Applied General Physiology	15	9
PHST7010A	Research Report I	15	9
Year of Study II			
PHST7001A	Traumatology	30	9
PHST7011A	Research Report II	75	9

8.3.11.3 Progression and completion rules

a) Assessment

i) The *Senate* may permit a *candidate* who has completed two *courses* to present herself/himself for supplementary *examination* in the *course* s/he has failed to complete.

ii) In a case considered by it to be exceptional, the *Senate* may permit a *candidate* who has completed only one *course* to present herself/himself for supplementary *examination* in the *courses* s/he has failed to complete.

iii) A *candidate* who is proceeding on a part-time *curriculum* shall obtain *credit* for any *course* or *courses* completed in the first and second years of study.

iv) A *candidate* who is proceeding on a part-time *curriculum* may be permitted by the *Senate* to present herself/himself for supplementary *examination* in any *course* that s/he fails to complete.

8.4 Doctorates and Senior Doctorates

Qualification Name	Degree Code	NQF Exit Level
Doctor of Medicine (MD)	MDA03	10
Doctor of Philosophy (PhD) **In the fields of:**	MDA00	10
Anaesthesia	FAANAE80	
Anatomical Pathology	MFAANAP80	
Anatomical Sciences	MFAANAT80	
Bioethics and Health Law	MFABIOE80	
Biokinetics	MFABIOK80	
Biomedical Informatics and Translational Medicine	MFABITM80	
Chemical Pathology	MFACHEP80	
Clinical Microbiology and Infectious Diseases	MFACMID80	
Community Dentistry	MFACOMD80	
Conservative Dentistry	MFACOND80	
Critical Care	MFACRIT80	
Diagnostic Radiology	MFARADD80	
Experimental Odontology	MFAEXPD80	
Family Medicine	MFAFAMH80	
Forensic Medicine	MFAFORM80	
Haematology and Molecular Medicine	MFAHAEM80	
Health Sciences Education	MFAHSED80	
Human Genetics	MFAHUMG80	
Immunology	MFAIMML80	10
Internal Medicine	MFAMEDC80	
Material Science	MFAMATS80	
Microbiology	MFAOMCB80	
Neurosurgery	MFANEUS80	
Nursing	MFANRSE80	
Obstetrics and Gynaecology	MFAOBSG80	
Occupational Therapy	MFAOCCT80	
Ophthalmology	MFAOPHT80	
Oral Biology	MFAORAB80	
Oral Medicine and Periodontology	MFAORMP80	
Oral Pathology	MFAOPAT80	

Qualification Name	Degree Code	NQF Exit Level
Orthodontics	MFAORTD80	
Orthopaedic Surgery	MFAORTS80	
Paediatrics	MFAPAED80	
Pharmacology	MFAPHAR80	
Pharmacy	MFAPACY80	
Physiology	MFAPHSL80	
Physiotherapy	MFAPHST80	
Prosthodontics	MFAPROD80	10
Psychiatry	MFAPSMH80	
Public Health	MFACOMH80	
Radiation Oncology	MFARASE80	
Surgery	MFASURG80	
Therapeutic Sciences	MFASTHS80	
Virology	MFAVIRL80	
Wits Reproductive and HIV Institute	MFAWRHI80	
Doctor of Science in Dentistry — DSc(Dent)	MDA02	10
Doctor of Science in Medicine — MSc(Med)	MDA01	10

8.4.1 Doctor of Medicine (MDA03)

The Doctor of Medicine degree is based predominantly on retrospective published work.

8.4.1.1 Admission rules

a) Admission requirements

Provided the *Senate* is satisfied that the *applicant* is qualified to undertake the research proposed, any of the following may be admitted as a *candidate*:

i) a person who has held the degree, Bachelor of Medicine and Bachelor of Surgery of the *University* for a minimum of four years;

ii) a graduate of *any other university* who has satisfied the *Senate* by, any means of *assessment*, to be determined from time to time by the *Senate*, that s/he is qualified to undertake the line of research proposed

8.4.1.2 Curriculum rules

a) Prosecution of research

i) A *candidate* for the degree, Doctor of Medicine shall be registered either full-time or part-time in the University or in an institution deemed by the *Senate* to be part of the University for this purpose, for a minimum of two *academic years* (full-time) or four years (part-time) under the guidance of a supervisor appointed by the *Senate*:

Provided that –

A. in the case of *candidates* accepted in terms of Rule 8.4.1.1, the *Senate* may permit the substitution of part-time research for full-time research on the basis of two years of part-time research for every one year of full-time research.

B. the *Senate* may permit a *candidate* to conduct her/his research outside the University for such portion of the prescribed period and in such a manner as the *Senate* may determine.

8.4.1.3 Progression and completion rules

a) Supervision

The supervisor shall be appointed by the *Senate*: Provided that if the *candidate* is working in one of the institutions approved by the *Senate*, such supervisor shall be appointed after consultation with the head of the institution concerned.

b) Requirement to attend advanced courses of instruction

The *Senate* may require a *candidate* to attend such advanced *courses* of instruction as it considers to be cognate to the subject of her/his research and to present herself/himself for an *assessment*.

c) Submission of Thesis

A *candidate* shall give a minimum of three months' notice in writing to the Registrar of her/his intention to present a *Thesis* for the degree and shall at the same time confirm the title and scope of the proposed *Thesis*.

d) Fulfilment of requirements for award of degree

A *candidate* shall, at the close of the period of research for the degree of Doctor of Medicine, present for the approval of the *Senate*, published work (the *thesis*) in an approved format which must constitute a substantial contribution to the advancement of knowledge in the subject chosen and which must be satisfactory as regards literary presentation.

Note: In the case of joint publications the *candidate's* contribution to such work must be indicated.

8.4.2 Doctor of Philosophy (MDA00)

8.4.2.1 Admission rules

a) Admission requirements

i) Provided the *Senate* is satisfied that the *applicant* is qualified to undertake the research proposed, any of the following may be admitted as a *candidate*:

A. A person who has held the degree, Bachelor of Medicine and Bachelor of Surgery of the *University* for a minimum of one year.

B. A Bachelor of Dental Science of the University who has held such degree for a minimum of 18 months or a person who has held a *qualification* of the University deemed by the *Senate* to be of status equivalent to that of Bachelor of Dental Science of the *University*.

C. The holder of a Master of Science or Master of Science in Medicine or Master of Science in Dentistry of the *University* or a holder of an equivalent *qualification*.

D. By special permission of the *Senate*, a Bachelor of Science with Honours of the University, or the holder of a four-year *qualification* in any faculty which the *Senate* considers to be the equivalent of an Honours degree.

E. A graduate of any other university who has satisfied the *Senate* by means of a written or oral test (or both) or by means of any other mode of *assessment* to be determined from time to time by the *Senate* that s/he is qualified to undertake the line of study proposed or research (or both).

F. A person other than a graduate who has in the manner set out in e) above satisfied the *Senate*.

ii) A person who has been admitted as a *candidate* for the degree, Master of Dentistry (in one of the clinical disciplines), Master of Medicine (in one of the clinical disciplines) or Master of Science in Dentistry or Master of Science in Medicine or an equivalent

qualification may, on the recommendation of the supervisor and the head of the department concerned and after not less than one further year (full-time) or two years (part-time), be permitted by the *Senate* to proceed instead to the degree, Doctor of Philosophy.

8.4.2.2 Progression and completion rules

a) Prosecution of research

i) A *candidate* for the degree, Doctor of Philosophy shall conduct full-time research either in the *University* or in an institution deemed by the *Senate* to be part of the *University* for this purpose, for a minimum of two *academic years* under the guidance of a supervisor appointed by the *Senate*: Provided that –

A. the *Senate* may dispense with the requirement for supervision in the case of *candidates* who hold appointments on the full-time academic staff of the University including joint provincial hospital/*University* staff appointed to recognised full-time posts at associated teaching hospitals, and who have held such appointments for a minimum of three years;

B. the *Senate* may permit the substitution of part-time research for full-time research on the basis of two years of part-time research for one year of full-time research, in the case of *candidates* accepted in terms of Rule 8.4.2.1;

C. the *Senate* may permit a *candidate* to conduct her/his research outside the *University* for such portion of the prescribed period and in such a manner as the *Senate* may determine.

ii) A *candidate* shall report regularly to her/his supervisor, if there be one, and shall, in June and November each year, lodge with her/his supervisor, or if there is no supervisor with the head of the department in which the research is being conducted, a written statement of her/his progress in her/his advanced study and research work during the first and second terms respectively.

b) Fields of Study

Field of Study	Plan Code	Course Code	School
Anaesthesia	MFAANAE80	ANAE9000A	School of Clinical Medicine
Anatomical Pathology	MFAANAP80	ANAP9000A	School of Pathology
Anatomical Sciences	MFAANAT80	ANAT9002A	School of Anatomical Sciences
Bioethics and Health Law	MFABAHL80	SCMD9000A	School of Clinical Medicine
Biokinetics	MFABIOK80	STHS9000A	School of Therapeutic Sciences
Biomedical Informatics and Translational Medicine	MFABITM80	SURG9000A	School of Clinical Medicine

Field of Study	Plan Code	Course Code	School
Chemical Pathology	MFACHEP80	CHEP9000A	School of Pathology
Clinical Microbiology and Infectious Diseases	MFACMID80	CMID9000A	School of Pathology
Community Dentistry	MFACOMD80	COMD9002A	School of Oral Health Sciences
Conservative Dentistry	MFACOND80	COND9002A	School of Oral Health Sciences
Critical Care	MFACRIT80	MEDC9000A	School of Clinical Medicine
Diagnostic Radiology	MFARADD80	RADD9000A	School of Clinical Medicine
Experimental Odontology	MFAEXPD80	EXPD9000A	School of Oral Health Sciences
Family Medicine	MFAFAMH80	FAMH9000A	School of Clinical Medicine
Forensic Medicine	MFAFORM80	FORM9000A	School of Clinical Medicine
Haematology and Molecular Medicine	MFAHAEM80	HAEM9000A	School of Pathology
Health Sciences Education	MFASCMD80	SCMD9000A	School of Clinical Medicine
Human Genetics	MFAHUMG80	HUMG9000A	School of Pathology
Immunology	MFAIMML80	IMML9000A	School of Pathology
Internal Medicine	MFAMEDC80	MEDC9000A	School of Clinical Medicine
Material Science	MFAMATS80	OHSC9000A	School of Oral Health Sciences
Microbiology	MFAOMCB80	CMID9001A	School of Pathology
Neurosurgery	MFANEUS80	NEUS9000A	School of Clinical Medicine
Nursing	MFANRSE80	NRSE9000A	School of Therapeutic Sciences
Obstetrics and Gynaecology	MFAOBSG80	OBSG9000A	School of Clinical Medicine
Occupational Therapy	MFAOCCT80	OCCT9000A	School of Therapeutic Sciences
Ophthalmology	MFAOPHT80	OPHT9000A	School of Clinical Medicine
Oral Biology	MFAORAB80	OHSC9000A	School of Oral Health Sciences

Field of Study	Plan Code	Course Code	School
Oral Medicine and Periodontology	MFAORMP80	ORMP9000A	School of Oral Health Sciences
Oral Pathology	MFAOPAT80	OPAT9001A	School of Oral Health Sciences
Orthodontics	MFAORTD80	ORTD9001A	School of Oral Health Sciences
Orthopaedic Surgery	MFAORTS80	ORTS9000A	School of Clinical Medicine
Paediatrics	MFAPAED80	PAED9000A	School of Clinical Medicine
Pharmacology	MFAPHAR80	PHAR9000A	School of Therapeutic Sciences
Pharmacy	MFAPACY80	PACY9000A	School of Therapeutic Sciences
Physiology	MFAPHSL80	PHSL9000A	School of Physiology
Physiotherapy	MFAPHST80	PHST9000A	School of Therapeutic Sciences
Prosthodontics	MFAPROD80	PROD9000A	School of Oral Health Sciences
Psychiatry	MFAPSMH80	PSMH9000A	School of Clinical Medicine
Public Health	MFACOMH80	COMH9000A	School of Public Health
Radiation Oncology	MFARASE80	RASE9000A	School of Clinical Medicine
Sport and Exercise Science	MFASPSC80	STHS9000A	School of Therapeutic Sciences
Sports Medicine	MFASPOM80	STHS9000A	School of Therapeutic Sciences
Surgery	MFASURG80	SURG9000A	School of Clinical Medicine
Therapeutic Sciences	MFASTHS80	STHS9000A	School of Therapeutic Sciences
Virology	MFAVIRL80	VIRL9000A	School of Pathology
Wits Reproductive Health and HIV Institute	MFAWRHI80	SCMD9000A	School of Clinical Medicine

8.4.2.3 Progression and completion rules

a) Supervision

The supervisor shall be appointed by the *Senate*: Provided that if the *candidate* is working in one of the institutions approved by the *Senate*, such supervisor shall be appointed after consultation with the head of the institution concerned.

b) Requirement to attend advanced courses of instruction

The *Senate* may require a *candidate* to attend such advanced *courses* of instruction as it considers to be

cognate to the subject of her/his research and to present herself/himself for an *assessment*.

c) Submission of Thesis

A *candidate* shall give a minimum of three months' notice in writing to the Registrar of her/his intention to present a *Thesis* for the degree and shall at the same time confirm the title and scope of the proposed *Thesis*.

d) Fulfilment of requirements for award of degree

At the close of the period of research a *candidate* for the degree, Doctor of Philosophy shall –

i) present for the approval of the *Senate* a *Thesis*, or a submission of published work in an approved format which must constitute a substantial contribution to the advancement of knowledge in the subject chosen, and which must be satisfactory as regards literary presentation; and

ii) if required by the *Senate*, present herself/himself for an *assessment*.

Note: When presenting her/his *Thesis* a *candidate* may submit published work in support of her/his candidature. In the case of joint publications the *candidate*'s share in such work must be indicated.

8.4.3 Doctor of Science in Dentistry (MDA02)

8.4.3.1 Admission rules

a) Admission requirements

Provided that the *Senate* is satisfied that the *applicant* is qualified to undertake the study proposed or research (or both), any of the following may be admitted as a *candidate*:

i) A Doctor of Philosophy of the *University*, who has held such degree for not less than two years.

ii) A Bachelor of Dental Science or a Master of Dentistry of the *University* who has held such *qualification* for a minimum of four years or a person who has held for a minimum of four years a *qualification* of the *University* deemed by the *Senate* to be of status equivalent to that of Bachelor of Dental Science of the *University*.

iii) A Master of Science or a Master of Science in Dentistry who has held that *qualification* for a minimum of four years.

iv) A Bachelor of Science with Honours of the *University* or a Bachelor of Science in Oral Biology of the *University* who has held that *qualification* for a minimum of five years.

v) A graduate of any other university who has satisfied the *Senate* by means of a written or oral test (or both) or by means of any other mode of *assessment* to be determined from time to time by the *Senate* that s/he is qualified to undertake the line of study proposed or research (or both).

vi) A person other than a graduate who has in the manner set out in (v) above satisfied the *Senate*.

8.4.3.2 Progression and completion rules

a) Fulfilment of requirements for award of degree

A *candidate* for the degree, Doctor of Science in Dentistry shall present for the approval of the *Senate* original published work or original work accepted for publication in a field approved by the *Senate*. Such work shall constitute a scholarly and distinguished contribution to the advancement of knowledge in the field.

8.4.4 Doctor of Science in Medicine (MDA01)

8.4.4.1 Admission rules

a) Admission requirements

Any of the following may be admitted by the *Senate* as a *candidate*:

A person who has held:

i) the degree, Bachelor of Medicine and Bachelor of Surgery of the *University* for not less than four years; or

ii) a degree of Master of the *University* for not less than three years, in a discipline that the *Senate* considers to be appropriate; or

iii) the degree, Doctor of Philosophy of the *University* for not less than two years.

8.4.4.2 Progression and completion rules

a) Fulfilment of requirements for award of degree

A *candidate* for the degree, Doctor of Science in Medicine shall present for the approval of the *Senate* original published work or original work accepted for publication in a field approved by the *Senate*. Such work shall constitute a scholarly and distinguished contribution to the advancement of knowledge in the field

Outcomes for the Faculty of Health Sciences

The *University* aspires for its *candidates* to achieve the following outcomes upon qualifying. The outcomes and assessment criteria listed are those, for each qualification of the *University*, as agreed by the *Senate*.

9.1 Degrees of Bachelor

9.1.1 Bachelor of Clinical Medical Practice

Qualification Title	Bachelor of Clinical Medical Practice
Qualification Abbreviation	BCMP
Minimum period of study	3 years full-time
NQF Exit level	Level 7
NQF Credits	Total minimum of 432

Exit Level Outcomes

1) Perform a patient-centred consultation across all ages in a district hospital.
2) Apply clinical reasoning in the assessment and management of patients.
3) Perform investigative and therapeutic procedures appropriate for a district hospital.
4) Prescribe appropriate medication within scope of practice.
5) Provide emergency care.
6) Facilitate communication and provide basic counselling.
7) Function as an effective member of the health care team.
8) Produce and maintain clinical records.
9) Function as an ethical practitioner.
10) Demonstrate ongoing learning in clinical practice.
11) Integrate understanding of family, community and health system in practice.

9.1.2 Bachelor of Dental Science

Qualification Title	Bachelor of Dental Science
Qualification Abbreviation	BDS
Minimum Period of study	5 years full-time
NQF Exit Level	Level 8
NQF Credits	Total minimum 828

Exit Level Outcomes

1) Cognitive goals

The qualifying *student* has acquired and shows evidence of a sufficient knowledge and understanding of the scientific bases of matters relevant to the practice of dentistry and understands the professional's responsibility for continuous, self- directed and relevant learning.

2) Psychomotor skills

The qualifying *student* has acquired and shows evidence of adequate skills in the performance of appropriate procedures relevant to the practice of dentistry, and understands the professional's responsibility for continuous, self-directed and relevant upgrading of skills.

3) Affective goals

The qualifying *student* has been exposed by example to, and shows evidence of, the possession of attitudes and values appropriate to a member of the health professions.

9.1.3 Bachelor of Health Sciences

Qualification Title	Bachelor of Health Sciences
Abbreviation	BHSci
Minimum Period of study	3 years full-time
NQF Exit Level	Level 7
NQF Credits	Total minimum 432

Exit Level Outcomes

1) At the end of the BHSci degree the *student* will be competent in problem solving (collecting, researching, documenting, analysing, organising and critically evaluating information).
2) At the end of the BHSci degree the *student* will be competent to apply knowledge and skills acquired to problems related to medical science and/or the health care industry.
3) In the contexts of the whole individual and his or her place in the family, society, the population and the environment, at the end of the BHSci degree the qualifying *student* will have knowledge of health economics and management.
4) At the end of the BHSci degree the qualifying *student* will understand the value of working with others as a member of a team, organisation or community.
5) At the end of the BHSci degree the qualifying *student* should have acquired appropriate attitudes and values essential to the practice of medical research and/or operating in the field of health care delivery, and should demonstrate the attitudes necessary for the achievement of high standards of ethical behaviour, both in relation to conduct and commitment in the workplace as well as to his or her own personal development.
6) At the end of the BHSci degree the qualifying *student* will be competent to communicate effectively.
7) At the end of the BHSci degree the qualifying *student* will have acquired and will be aware of the need to develop self direction and independence in his/her learning in order to become a lifelong *student*, and will recognise personal educational needs, utilise appropriate learning situations and evaluate his/her own progress.

9.1.4 Bachelor of Medicine and Bachelor of Surgery

Qualification Title	Bachelor of Medicine and Bachelor of Surgery
Qualification Abbreviation	MBBCh
Minimum Period of study	6 years full-time
NQF Exit Level	Level 8
NQF Credits	Total minimum 1098

Exit Level Outcomes

1) Medical problem solving (collecting, researching, documenting, analysing, organising and critically evaluating information).

   At the end of the MBBCh degree the qualifying *student* will be competent to assess the range of health problems that are presented to doctors and use a range of solutions for their recognition, investigation, treatment and prevention.

2) Acquisition and application of fundamental and specialist knowledge to the practice of medicine, including proficiency in basic clinical skills.
   At the end of the MBBCh degree the qualifying *student* will be competent to apply knowledge and skills acquired to determine the causes of disease and to solve medical problems.

3) Understanding of the world as a set of related systems by recognising that problem- solving contexts do not exist in isolation.
   In the contexts of the whole individual and his or her place in the family, society, the population and the environment, at the end of the MBBCh degree the qualifying *student* will have knowledge of health and its promotion, and of disease and its prevention and management in these contexts.

4) Working with others as a member of a team, group, organisation, community

   At the end of the MBBCh degree the qualifying *student* will be competent to work with others as a member of a team, group, organisation, community.

5) Attitudes and values outcomes
   At the end of the MBBCh degree the qualifying *student* should have acquired appropriate attitudes and values essential to the practice of medicine, and should demonstrate the attitudes necessary for the achievement of high standards of medical practice, both in relation to the care of individuals and communities and to his or her own personal development.

6) Professional and general communication
   At the end of the MBBCh degree the qualifying *student* will be competent to communicate effectively.

7) Organising and managing activities for self development responsibly and effectively.
   At the end of the MBBCh degree the qualifying *student* will have acquired and will demonstrate self direction and independence in their learning in order to become lifelong *student*s, and will recognise personal educational needs, utilise appropriate learning situations and evaluate their own progress.

9.1.5 Bachelor of Nursing

Qualification Title	Bachelor of Nursing
Qualification Abbreviation	BNurs
Minimum Period of study	4 years full-time
NQF Exit Level	Level 8
NQF Credits	Total minimum 508

Exit Level Outcomes

1) Problem-solving abilities
   The qualifying *student* will be competent to assess the range of health needs and problems that are presented to nurses/midwives and use a spectrum of methods for their recognition, investigation, treatment and prevention.

2) Communication skills
   The qualifying *student* will be competent to communicate appropriately and effectively.

3) Teamwork
   The qualifying *student* will demonstrate flexibility in the assumption of different roles in order to work effectively and collaboratively with a patient/client and the health team in multidisciplinary and intersectoral environments.

4) Life-long learning
The qualifying *student* will demonstrate professional and personal behaviour consistent with the commitment to life-long learning, accountability in practice and the promotion and development of the nursing profession.

5) Professional practice
The qualifying *student* should have acquired appropriate attitudes and values essential to the practice of nursing, and should demonstrate the attitudes necessary for the achievement of high standards of nursing practice, both in relation to the care of individuals and communities.

6) Research abilities
The qualifying *student* will have a beginning knowledge of research principles and methodologies.

7) Nursing methods, skills and technology
The qualifying *student* will be able to select appropriate methods and technology in nursing care.

8) Community awareness/commitment
The qualifying *student* will demonstrate a commitment to community development and empowerment and environmental awareness.

9.1.6 Bachelor of Oral Health Sciences

Qualification Title	Bachelor of Oral Health Sciences
Qualification Abbreviation	BOHSci
Minimum Period of study	3 years full-time
NQF Exit Level	Level 7
NQF Credits	Total minimum 388

Exit Level Outcomes

The qualifying *student* should be able to:

1) Provide educational, preventive and therapeutic services in the support of optimal oral health.
2) Work as a expert within a multi-disciplinary team addressing Oral Health challenges and concerns.
3) Provide oral health care within the scope of the profession.
4) Appraise policies relating to epidemiology, biostatistics and research that impact on oral health sciences practice and recommend suitable solutions.
5) Demonstrate the attitudes necessary for achieving high levels of personal, professional and ethical conduct and social responsibility.
6) Work in a business environment with clients/ patients. S/he must demonstrate knowledge and skills in the administration of a practice using sound business principles.
7) Promote health and wellness and prevent disease in response to the changes within the health care environment. And should therefore be able to assess, plan, and implement programs and activities in public health, private practice and alternative settings.
8) Demonstrate knowledge of and ability to conduct research and write research reports.

9.1.7 Bachelor of Pharmacy

Qualification Title	Bachelor of Pharmacy
Qualification Abbreviation	BPharm
Minimum Period of study	4 years full-time
NQF Exit Level	Level 8
NQF Credits	Total minimum 576

Exit Level Outcomes

1) Team and multidisciplinary work
The qualifying *student* will be an integral part of the multi-disciplinary healthcare team, and makes focused therapeutic interventions in the delivery of healthcare.

2) Managerial skills in the practice of pharmacy
The qualifying *student* is concerned with the application of general management skills, whether in the context of pharmacy or in any other field of practice. The qualifying *student* has the ability to deal with contingencies as well as routine work.

3) The preparation and packaging of pharmaceutical products
The qualifying *student* is concerned with taking ultimate responsibility for controlling the quality and effectiveness in the preparation and packaging of pharmaceutical and related products in community, hospital and industrial settings. This includes the manufacture and packing of bulk pharmaceutical products, the compounding of medicines (small-scale manufacturing) and the extemporaneous preparation of individual medicines in hospital or community pharmacy.

4) Acquisition and distribution of pharmaceutical materials and products
The qualifying *student* is concerned with taking ultimate responsibility for controlling the acquisition, storage and movement of pharmaceutical materials and products in industrial, wholesale, hospital and community pharmacy settings.

5) Dispensing and quality care
The qualifying *student* is concerned with receiving and assessing prescriptions to ensure quality use of medicines and where necessary communicating with the prescriber, devising an appropriate care plan in consultation with the patient and/or prescriber and/or multi-disciplinary team, implementing and monitoring patient outcomes as well as maintaining records.

6) Pharmacist advised care
The qualifying *student* consults with the patient, with due regard to cultural differences between patients, to devise an appropriate care plan. Consultation is with the patient or multi-disciplinary team. The care plan is implemented, outcomes monitored, and the plan and results documented. Review of the care plan then leads to any necessary revision.

7) Provision of information and education
The qualifying *student* provides health and pharmaceutical information on request, as well as initiates and/or participates in the provision of health care education and information to the public and other health care professionals. The qualifying *student* is able to establish data bases and to interpret scientific information to provide bases for rational drug use.

The qualifying *student* also has an understanding of the principles of managed health care, health and pharmacoeconomics.

8) Promotion of community health
The qualifying *student* provides promotive and preventative health education, and both initiates and participates in community health projects. The qualifying *student* conducts screening programs to identify health deficiencies in the community, and notes and responds to epidemiological trends in the community including the reporting of notifiable diseases. The qualifying *student* also participates in developing, establishing and managing drug and health policies.

9) Research and development
The qualifying *student* initiates and participates in research and development of medicines and health care strategies and is aware of the importance of keeping up to date with research findings in the discipline.

9.1.8 Bachelor of Science in Occupational Therapy

Qualification Title	Bachelor of Science in Occupational Therapy
Qualification Abbreviation	BSc (Occupational Therapy)
Minimum Period of study	4 years full-time
NQF Exit Level	Level 8
NQF Credits	Total minimum 558

Exit Level Outcomes

1) Problem solving
The qualifying *student* is competent in the use of problem-solving techniques based on problem-based learning, clinical reasoning, and qualitative and quantitative research techniques.
2) Application of fundamental and specialist knowledge
The qualifying *student* is competent to apply knowledge acquired to identify and solve a client's or community's problems in activities health or occupational dysfunction.
3) Investigations, experiments and data analysis
The qualifying *student* is competent to initiate, investigate, analyse and revise investigations.
4) Therapy programme design
The qualifying leaner is competent to manage aspects of the therapy process such as the design, implementation, evaluation and modification of the programme.
5) Therapy methods, skills, tools and information technology
The qualifying *student* is competent to use occupational therapy principles, methods, skills and tools to promote occupational performance, social interaction, adapt to impairment and disability.
6) Professional and general communication
The qualifying *student* is competent to communicate effectively.
7) Awareness of the impact of occupational performance and therapy on society and the environment.
The qualifying *student* works with responsibility towards and sensitivity to the social and environmental context.
8) Team work
The qualifying *student* is able to work in a team and understands the value of not working in isolation.
9) Lifelong learning
The qualifying *student* understands the need for lifelong learning.
10) Professional ethics and practice
The qualifying *student* understands the value of adherence to professional ethics in her/his practice.

9.1.9 Bachelor of Science in Physiotherapy

Qualification Title	Bachelor of Science in Physiotherapy
Qualification Abbreviation	BSc (Physiotherapy)
Minimum Period of study	4 years full-time
NQF Exit Level	Level 8
NQF Credits	Total minimum 576

Exit Level Outcomes

1) Physiotherapy problem solving
The qualifying *student* is competent to identify, assess and manage physiotherapy problems creatively and effectively.

2) Application of fundamental and specialist knowledge
The qualifying *student* is competent to apply knowledge of basic, medical and human sciences, as well as physiotherapy science, from first principles to solve physiotherapeutic problems.

3) Understanding the world as a set of related systems by recognising that problem- solving contexts do not exist in isolation.
In the contexts of the whole individual and his or her place in the family, society, the population and the environment, at the end of the BSc(Physiotherapy) degree, the qualifying *student* will have knowledge of health and its promotion, disease and its prevention, rehabilitation and management in these contexts.

4) Professional and general communication
The qualifying *student* is competent to communicate and teach effectively both orally and in writing with peers, colleagues, patients, members of the health care team and the public.

5) Investigations, experiments and data analysis The qualifying *student* is competent to:
   a) critically evaluate the professional literature;
   b) design appropriate research;
   c) analyse and evaluate data;
   d) contribute to the existing body of knowledge of the profession.

6) Lifelong learning
The qualifying *student* is competent to, and understands the requirements to maintain continued competence and to keep abreast of up-to date expertise and techniques.

7) Team and multidisciplinary work
The qualifying *student* is competent to work effectively as an individual, in teams and in multidisciplinary environments showing leadership and performing critical functions.

8) Professional ethics and practice
The qualifying *student* is critically aware of:
   a) the need to act professionally and ethically and to take responsibility within own limits of;
   b) the need to act within the legal requirements of the profession and is competent to exercise.

9.2 Degrees of Bachelor with Honours

9.2.1 Bachelor of Health Sciences Honours

Qualification Title	Bachelor of Health Sciences with Honours
Qualification Abbreviation	BHSciHons
Minimum period of study	1 year full-time 2 years part-time
NQF Exit Level	Level 8
NQF credits	Total minimum 140

Exit Level Outcomes

At the end of the BHSciHons degree the *student* will:

1) Be competent in problem solving (collecting, researching, documenting, analysing, organising and critically evaluating information).

2) Be competent to apply advanced knowledge and skills acquired to problems related to medical science and/or the health care industry.

3) In the contexts of the whole individual and his or her place in the family, society, the population and the environment, the qualifying *candidate* will have knowledge of health, wellness and disease, with implications on health economics, health promotion, prevention and management thereof.
4) Apply what has been learned in the understanding and appreciating the value of working as a team member within the multidisciplinary field, including the community.
5) To demonstrate efficiency and competence in working within team structures, demonstrate an understanding of essential roles which all participants play in a multidisciplinary health care delivery system.
6) Demonstrate the attitudes necessary for the achievement of high standards of ethical behaviour, both in relation to conduct and commitment in the workplace as well as to his or her own personal development.
7) Be competent to communicate effectively.
8) Have acquired and will be aware of the fields and directions to be taken in order to become a lifelong *candidate*, and will recognise personal educational needs, utilise appropriate learning situations and evaluate her/his own progress.

9.2.2 Bachelor of Clinical Medical Practice Honours

Qualification Title	Bachelor of Clinical Medical Practice Honours
Qualification Abbreviation	BCMP Honours
Minimum period of study	2 years part-time
NQF Exit level	Level 8
NQF credits	140

Exit Level Outcomes

At the end of the BCMP Hons degree the *candidate* will:

1) Be competent in advanced level skills in clinical decision making in the clinical discipline, including formulation of differential diagnoses and treatment plans.
2) Be competent to perform advanced level investigative and therapeutic procedures in the clinical discipline.
3) Be competent in problem solving (collecting, researching , analysing, organising and evaluating information) and decision making.
4) Be competent to apply advanced knowledge and skills to clinical research.
5) Have knowledge of health, wellness and disease and implications for health economics, health promotion, disease prevention and management. This being in the contexts of the individual, the family, the community and the environment.
6) Have developed an understanding and appreciation of the value of working as a team member within the multidisciplinary field and the community.
7) Be competent to communicate effectively, orally and in writing.
8) Have acquired the attitudes necessary for the achievement of high standards of ethical behaviour, in relation to conduct and commitment in the workplace as well as to his or her personal development.
9) Be a self-directed *candidate*.
10) Have developed an ethos of lifelong learning and education, will recognise personal educational needs and utilise appropriate learning situations.

9.3 Degrees of Master

9.3.1 Master of Dentistry

Qualification Title	Master of Dentistry
Qualification Abbreviation	MDent
Minimum Period of study	4 years full-time (depending on the branch)
NQF Exit Level	Level 9
NQF Credits	Total minimum 480

Exit Level Outcomes

1) Clinical knowledge and competence
The qualifying *candidate* is competent in clinical skills at the specialist level.
2) Research ability
The qualifying *candidate* shows expertise in research and the ability to evaluate, teach and implement research findings in the practice of the branch of specialisation.
3) Attitudes and values
The qualifying *candidate* shows ethical, compassionate and skilled ability to conduct all aspects of specialist dental practice, both in relation to the care of individuals and of populations.
4) Teaching role
The qualifying *candidate* has knowledge of the principles and practice of dentistry from the basic to an advanced level and is able to train others in the speciality.
5) Self development
The qualifying *candidate* will have acquired and will demonstrate self direction and independence in his or her learning in order to become a lifelong *candidate*, and will recognise personal education needs, utilise appropriate learning situations and evaluate her or his own progress.

9.3.2 Master of Medicine in Anaesthesia

Qualification Title	Master of Medicine in Anaesthesia
Qualification Abbreviation	MMed (Anaesthesia)
Minimum Period of study	4 years
NQF Exit Level	Level 9
NQF Credits	Total minimum 480

Exit Level Outcomes

1) Clinical Knowledge and Competence
The qualifying *candidate* is competent in clinical and anaesthesia skills at the specialist level.
2) Research Ability
The qualifying *candidate* shows expertise in research and the ability to evaluate, teach and implement research findings in the practice of the branch of specialisation.
3) Attitudes and Values
The qualifying *candidate* shows ethical, compassionate and skilled ability to conduct all aspects of specialist anaesthetic practice, both in relation to the care of individuals and of populations.
4) Teaching Role
The qualifying *candidate* has knowledge of the principles and practice of medicine from the basicto an advanced level and is able to train others in the speciality.

5) Self Development
The qualifying *candidate* will have acquired and will demonstrate self direction and independence in his or her learning in order to become a lifelong *candidate*, and will recognise personal education needs, utilise appropriate learning situations and evaluate her or his own progress.

9.3.3 Master of Medicine in Anatomical Pathology

Qualification Title	Master of Medicine in Anatomical Pathology
Qualification Abbreviation	MMed (Anatomical Pathology)
Minimum Period of study	4 years
NQF Exit Level	Level 9
NQF Credits	Total minimum 480

Exit Level Outcomes

1) Clinical Knowledge and Competence
The qualifying *candidate* is competent in clinical and laboratory skills at the specialist level.
2) Research Ability
The qualifying *candidate* shows expertise in research and the ability to evaluate, and implement research findings in the practice of the branch of specialisation.
3) Attitudes and Values
The qualifying *candidate* shows ethical, compassionate and skilled ability to conduct all aspects of specialist practice.
4) Teaching Role
The qualifying *candidate* has knowledge of the principles and practice of Anatomical Pathology from the basic to an advanced level and is able to train others in the speciality.
5) Self Development
The qualifying *candidate* will have acquired and will demonstrate self direction and independence in his or her learning in order to become a lifelong *candidate*, and will recognise personal education needs, utilise appropriate learning situations and evaluate her or his own progress.

9.3.4 Master of Medicine in Cardio-Thoracic Surgery

Qualification Title	Master of Medicine in Cardio-Thoracic Surgery
Qualification Abbreviation	MMed (Cardio-Thoracic Surgery)
Minimum Period of study	4 years
NQF Exit Level	Level 9
NQF Credits	Total minimum 480

Exit Level Outcomes

1) Clinical Knowledge and Competence
The qualifying *candidate* is competent in clinical and surgical skills at the specialist level.
2) Research Ability
The qualifying *candidate* shows expertise in research and the ability to evaluate, and implement research findings in the practice of the branch of specialisation.
3) Attitudes and Values
The qualifying *candidate* shows ethical, compassionate and skilled ability to conduct all aspects of specialist surgical practice, both in relation to the care of individuals and of populations.

4) Teaching Role
The qualifying *candidate* has knowledge of the principles and practice of Cardio- thoracic Surgery from the basic to an advanced level and is able to train others in the speciality.

5) Self Development
The qualifying *candidate* will have acquired and will demonstrate self direction and independence in his or her learning in order to become a lifelong *candidate*, and will recognise personal education needs, utilise appropriate learning situations and evaluate her or his own progress.

9.3.5 Master of Medicine in Chemical Pathology

Qualification Title	Master of Medicine in Chemical Pathology
Qualification Abbreviation	MMed (Chemical Pathology)
Minimum Period of study	4 years
NQF Exit Level	Level 9
NQF Credits	Total minimum 480

Exit Level Outcomes

1) Clinical Knowledge and Competence
The qualifying *candidate* is competent in clinical and laboratory skills at the specialist level.

2) Research Ability
The qualifying *candidate* shows expertise in research and the ability to evaluate, and implement research findings in the practice of the branch of specialisation.

3) Attitudes and Values
The qualifying *candidate* shows ethical, compassionate and skilled ability to conduct all aspects of specialist practice.

4) Teaching Role
The qualifying *candidate* has knowledge of the principles and practice of Chemical Pathology from the basic to an advanced level and is able to train others in the speciality.

5) Self Development
The qualifying *candidate* will have acquired and will demonstrate self direction and independence in his or her learning in order to become a lifelong *candidate*, and will recognise personal education needs, utilise appropriate learning situations and evaluate her or his own progress.

9.3.6 Master of Medicine in Clinical Pathology

Qualification Title	Master of Medicine in Clinical Pathology
Qualification Abbreviation	MMed (Clinical Pathology)
Minimum Period of study	4 years
NQF Exit Level	Level 9
NQF Credits	Total minimum 480

Exit Level Outcomes

1) Clinical Knowledge and Competence
The qualifying *candidate* is competent in clinical and laboratory skills at the specialist level.

2) Research Ability
The qualifying *candidate* shows expertise in research and the ability to evaluate, and implement research findings in the practice of the branch of specialisation.

3) Attitudes and Values
The qualifying *candidate* shows ethical, compassionate and skilled ability to conduct all aspects of specialist practice.

4) Teaching Role
The qualifying *candidate* has knowledge of the principles and practice of Clinical Pathology from the basic to an advanced level and is able to train others in the speciality.

5) Self Development
The qualifying *candidate* will have acquired and will demonstrate self direction and independence in his or her learning in order to become a lifelong *candidate*, and will recognise personal education needs, utilise appropriate learning situations and evaluate her or his own progress.

9.3.7 Master of Medicine in Dermatology

Qualification Title	Master of Medicine in Dermatology
Qualification Abbreviation	MMed (Dermatology)
Minimum Period of study	4 years
NQF Exit Level	Level 9
NQF Credits	Total minimum 480

Exit Level Outcomes

1) Clinical Knowledge and Competence
The qualifying *candidate* is competent in clinical skills at the specialist level.

2) Research Ability
The qualifying *candidate* shows expertise in research and the ability to evaluate, teach and implement research findings in the practice of the branch of specialisation.

3) Attitudes and Values
The qualifying *candidate* shows ethical, compassionate and skilled ability to conduct all aspects of specialist medical practice, both in relation to the care of individuals and of populations.

4) Teaching Role
The qualifying *candidate* has knowledge of the principles and practice of medicine from the basic to an advanced level and is able to train others in the speciality.

5) Self Development
The qualifying *candidate* will have acquired and will demonstrate self direction and independence in his or her learning in order to become a lifelong *candidate*, and will recognise personal education needs, utilise appropriate learning situations and evaluate her or his own progress.

9.3.8 Master of Medicine in Diagnostic Radiology

Qualification Title	Master of Medicine in Diagnostic Radiology
Qualification Abbreviation	MMed (Diagnostic Radiology)
Minimum Period of study	4 years
NQF Exit Level	Level 9
NQF Credits	Total minimum 480

Exit Level Outcomes

1) Clinical Knowledge and Competence
The qualifying *candidate* is competent in clinical and Diagnostic Radiology skills at the specialist level.

2) Research Ability
The qualifying *candidate* shows expertise in research and the ability to evaluate, and implement research findings in the practice of the branch of specialisation.

3) Attitudes and Values
The qualifying *candidate* shows ethical, compassionate and skilled ability to conduct all aspects of specialist Diagnostic Radiology practice, both in relation to the care of individuals and of populations.

4) Teaching Role
The qualifying *candidate* has knowledge of the principles and practice of Diagnostic Radiology from the basic to an advanced level and is able to train others in the speciality.

5) Self Developments
The qualifying *candidate* will have acquired and will demonstrate self direction and independence in his or her learning in order to become a lifelong *candidate*, and will recognise personal education needs, utilise appropriate learning situations and evaluate her or his own progress.

9.3.9 Master of Medicine in Emergency Medicine

Qualification Title	Master of Medicine in Emergency Medicine
Qualification Abbreviation	MMed (Emergency Medicine)
Minimum Period of study	4 years
NQF Exit Level	Level 9
NQF Credits	Total minimum 480

Exit Level Outcomes

1) Clinical Knowledge and Competence
The qualifying *candidate* is competent in emergency medical procedures at the specialist level.

2) Research Ability
The qualifying *candidate* shows expertise in research and the ability to evaluate, teach and implement research findings in the practice of the branch of specialisation.

3) Attitudes and Values
The qualifying *candidate* shows ethical, compassionate and skilled ability to conduct all aspects of specialist emergency medicine practice, both in relation to the care of individuals and of populations.

4) Teaching Role
The qualifying *candidate* has knowledge of the principles and practice of medicine from the basic to an advanced level and is able to train others in the speciality.

5) Self Development
The qualifying *candidate* will have acquired and will demonstrate self direction and independence in his or her learning in order to become a lifelong *candidate*, and will recognise personal education needs, utilise appropriate learning situations and evaluate her or his own progress.

9.3.10 Master of Medicine in Family Medicine

Qualification Title	Master of Medicine in Family Medicine
Qualification Abbreviation	MMed (Family Medicine)
Minimum Period of study	4 years
NQF Exit Level	Level 9
NQF Credits	Total minimum 480

Exit Level Outcomes

1) Registrability
The qualifying *candidate* shows competence in clinical and academic skills, of a sufficient standard, which allows the *candidate* to register with the Health Professions Council of South Africa as a Family Physician.

2) Attitudes and Values
The qualifying *candidate* shows ethical, compassionate and skilled ability to conduct all aspects of health care and demonstrates the attitudes necessary for the achievement of generalist standards of medical practice, both in relation to the care of individuals and populations and to his or her own personal continuing professional development.

3) Research Ability
The qualifying *candidate* shows expertise in research and the ability to evaluate and implement research findings in the practice of the branch of Family Medicine.

4) Application of Knowledge
The qualifying *candidate* has knowledge of the principles and practice of medicine, from the basic to the advanced level.

5) Communication and Psychomotor Skills
The qualifying *candidate* is competent in clinical skills at the family physician level.

6) Self Development
The qualifying *candidate* will have acquired and will demonstrate self direction and independence in his or her learning in order to become a lifelong *candidate*, and will recognise personal education needs, utilise appropriate learning situations and evaluate her or his own progress.

9.3.11 Master of Medicine in Forensic Pathology

Qualification Title	Master of Medicine in Forensic Pathology
Qualification Abbreviation	MMed (Forensic Pathology)
Minimum Period of study	4 years
NQF Exit Level	Level 9
NQF Credits	Total minimum 480

Exit Level Outcomes

1) Clinico-pathological Knowledge and Competence
The qualifying *candidate* is competent in clinical and laboratory skills at the specialist level.

2) Research Ability
The qualifying *candidate* shows expertise in research and the ability to evaluate, and implement research findings in the practice of the branch of specialisation.

3) Attitudes and Values
The qualifying *candidate* shows ethical, compassionate and skilled ability to conduct all aspects of specialist practice.

4) Teaching Role
The qualifying *candidate* has knowledge of the principles and practice of Forensic Pathology from the basic to an advanced level and is able to train others in the speciality.

5) Self Development
The qualifying *candidate* will have acquired and will demonstrate self direction and independence in his or her learning in order to become a lifelong *candidate*, and will recognise personal education needs, utilise appropriate learning situations and evaluate her or his own progress.

9.3.12 Master of Medicine in Haematology

Qualification Title	Master of Medicine in Haematology
Qualification Abbreviation	MMed (Haematology)
Minimum Period of study	4 years
NQF Exit Level	Level 9
NQF Credits	Total minimum 480

Exit Level Outcomes

1) Clinical Knowledge and Competence
The qualifying *candidate* is competent in clinical and laboratory skills at the specialist level.

2) Research Ability
The qualifying *candidate* shows expertise in research and the ability to evaluate, and implement research findings in the practice of the branch of specialisation.

3) Attitudes and Values
The qualifying *candidate* shows ethical, compassionate and skilled ability to conduct all aspects of specialist practice.

4) Teaching Role
The qualifying *candidate* has knowledge of the principles and practice of Haematology from the basic to an advanced level and is able to train others in the speciality.

5) Self Development
The qualifying *candidate* will have acquired and will demonstrate self direction and independence in his or her learning in order to become a lifelong *candidate*, and will recognise personal education needs, utilise appropriate learning situations and evaluate her or his own progress.

9.3.13 Master of Medicine in Internal Medicine

Qualification Title	Master of Medicine in Internal Medicine
Qualification Abbreviation	MMed (Internal Medicine)
Minimum Period of study	4 years
NQF Exit Level	Level 9
NQF Credits	Total minimum 480

Exit Level Outcomes

1) Clinical Knowledge and Competence
The qualifying *candidate* is competent in clinical skills at the specialist level.

2) Research Ability
The qualifying *candidate* shows expertise in research and the ability to evaluate, teach and implement research findings in the practice of the branch of specialisation.

3) Attitudes and Values
The qualifying *candidate* shows ethical, compassionate and skilled ability to conduct all aspects of specialist medical practice, both in relation to the care of individuals and of populations.

4) Teaching Role
The qualifying *candidate* has knowledge of the principles and practice of medicine from the basic to an advanced level and is able to train others in the speciality.

5) Self Development
The qualifying *candidate* will have acquired and will demonstrate self direction and independence in his or her learning in order to become a lifelong *candidate*, and will recognise personal education needs, utilise appropriate learning situations and evaluate her or his own progress.

9.3.14 Master of Medicine in Medical Genetics

Qualification Title	Master of Medicine in Medical Genetics
Qualification Abbreviation	MMed (Medical Genetics)
Minimum Period of study	4 years
NQF Exit Level	Level 9
NQF Credits	Total minimum 480

Exit Level Outcomes

1) Demonstrate expertise in research by evaluating and implementing research findings in the practice of the branch of specialisation.

2) Demonstrate ethical, compassionate and skilled ability to conduct all aspects of specialist medical practice, both in relation to the care of individuals and of populations.

3) Demonstrate knowledge of the principles and practice of medicine from the basic to an advanced level and train others in the specialty.

4) Demonstrate self-direction and independence to become a lifelong *candidate*, and recognise personal educational needs, utilise appropriate learning situations and evaluate own progress.

9.3.15 Master of Medicine in Microbiology

Qualification Title	Master of Medicine in Microbiology
Qualification Abbreviation	MMed (Microbiology)
Minimum Period of study	4 years
NQF Exit Level	Level 9
NQF Credits	Total minimum 480

Exit Level Outcomes

1) Clinical Knowledge and Competence
The qualifying *candidate* is competent in clinical and laboratory skills at the specialist level.

2) Research Ability
The qualifying *candidate* shows expertise in research and the ability to evaluate, and implement research findings in the practice of the branch of specialisation.

3) Attitudes and Values
The qualifying *candidate* shows ethical, compassionate and skilled ability to conduct all aspects of specialist practice.

4) Teaching Role
The qualifying *candidate* has knowledge of the principles and practice of Microbiology from the basic to an advanced level and is able to train others in the speciality.

5) Self Development
The qualifying *candidate* will have acquired and will demonstrate self direction and independence in his or her learning in order to become a lifelong *candidate*, and will recognise personal education needs, utilise appropriate learning situations and evaluate her or his own progress.

9.3.16 Master of Medicine in Neurology

Qualification Title	Master of Medicine in Neurology
Qualification Abbreviation	MMed (Neurology)
Minimum Period of study	4 years
NQF Exit Level	Level 9
NQF Credits	Total minimum 480

Exit Level Outcomes

1) Clinical Knowledge and Competence
The qualifying *candidate* is competent in clinical skills at the specialist level.

2) Research Ability
The qualifying *candidate* shows expertise in research and the ability to evaluate, teach and implement research findings in the practice of the branch of specialisation.

3) Attitudes and Values
The qualifying *candidate* shows ethical, compassionate and skilled ability to conduct all aspects of specialist medical practice, both in relation to the care of individuals and of populations.

4) Teaching Role
The qualifying *candidate* has knowledge of the principles and practice of medicine and neurology from the basic to an advanced level and is able to train others in the speciality.

5) Self Development
The qualifying *candidate* will have acquired and will demonstrate self direction and independence in his or her learning in order to become a lifelong *candidate*, and will recognise personal education needs, utilise appropriate learning situations and evaluate her or his own progress.

9.3.17 Master of Medicine in Neurological Surgery

Qualification Title	Master of Medicine in Neurological Surgery
Qualification Abbreviation	MMed (Neurological Surgery)
Minimum Period of study	4 years
NQF Exit Level	Level 9
NQF Credits	Total minimum 480

Exit Level Outcomes

1) Clinical Knowledge and Competence
The qualifying *candidate* is competent in clinical and surgical skills at the specialist level

2) Research Ability
The qualifying *candidate* shows expertise in research and the ability to evaluate, and implement research findings in the practice of the branch of specialisation.

3) Attitudes and Values
The qualifying *candidate* shows ethical, compassionate and skilled ability to conduct all aspects of specialist surgical practice, both in relation to the care of individuals and of populations.

4) Teaching Role
The qualifying *candidate* has knowledge of the principles and practice of Neurological Surgery from the basic to an advanced level and is able to train others in the speciality.

5) Self Development
The qualifying *candidate* will have acquired and will demonstrate self direction and independence in his or her learning in order to become a lifelong *candidate*, and will recognise personal education needs, utilise appropriate learning situations and evaluate her or his own progress.

9.3.18 Master of Medicine in Nuclear Medicine

Qualification Title	Master of Medicine in Nuclear Medicine
Qualification Abbreviation	MMed (Nuclear Medicine)
Minimum Period of study	4 years
NQF Exit Level	Level 9
NQF Credits	Total minimum 480

Exit Level Outcomes

1) Clinical Knowledge and Competence
The qualifying *candidate* is competent in clinical skills at the specialist level.

2) Research Ability
The qualifying *candidate* shows expertise in research and the ability to evaluate, teach and implement research findings.

3) Attitudes and Values
The qualifying *candidate* shows ethical, compassionate and skilled ability to conduct all aspects of specialist medical practice, both in relation to the care of individuals and of populations.

4) Teaching Role
The qualifying *candidate* has knowledge of the principles and practice of Nuclear Medicine from the basic to an advanced level and is able to train others in the speciality.

5) Self Development
The qualifying *candidate* will have acquired and will demonstrate self direction and independence in his or her learning in order to become a lifelong *candidate*, and will recognise personal education needs, utilise appropriate learning situations and evaluate her or his own progress.

9.3.19 Master of Medicine in Obstetrics and Gynaecology

Qualification Title	Master of Medicine in Obstetrics and Gynaecology
Qualification Abbreviation	MMed (Obstetrics and Gynaecology)
Minimum Period of study	4 years
NQF Exit Level	Level 9
NQF Credits	Total minimum 480

Exit Level Outcomes

1) Clinical Knowledge and Competence
The qualifying *candidate* is competent in clinical skills at the specialist level.

2) Research Ability
The qualifying *candidate* shows expertise in research and the ability to evaluate, teach and implement research findings in the practice of the branch of specialisation.

3) Attitudes and Values
The qualifying *candidate* shows ethical, compassionate and skilled ability to conduct all aspects of specialist medical practice, both in relation to the care of individuals and of populations.

4) Teaching Role
The qualifying *candidate* has knowledge of the principles and practice of medicine from the basic to an advanced level and is able to train others in the speciality.

5) Self Development
The qualifying *candidate* will have acquired and will demonstrate self direction and independence in his or her learning in order to become a lifelong *candidate*, and will recognise personal education needs, utilise appropriate learning situations and evaluate her or his own progress.

9.3.20 Master of Medicine in Occupational Medicine

Qualification Title	Master of Medicine in Occupational Medicine
Qualification Abbreviation	MMed (Occupational Medicine)
Minimum Period of study	4 years
NQF Exit Level	Level 9
NQF Credits	Total minimum 480

Exit Level Outcomes

1) Be able to diagnose and manage all aspects of work-related disease or disability or threats to health and well-being of individual employees.
2) Be able to investigate occupational health risks in a workplace and develop an efficient and effective hazard control and management programme through workplace interventions and appropriate occupational health services.
3) Be able to describe, explain and quantify occupational health risks, occupational health service needs and interventions through conducting appropriate epidemiological research and developing appropriate policy options based on study findings.

9.3.21 Master of Medicine in Ophthalmology

Qualification Title	Master of Medicine in Ophthalmology
Qualification Abbreviation	MMed (Ophthalmology)
Minimum Period of study	4 years
NQF Exit Level	Level 9
NQF Credits	Total minimum 480

Exit Level Outcomes

1) Clinical Knowledge and Competence
The qualifying *candidate* is competent in clinical and surgical skills at the specialist level.
2) Research Ability
The qualifying *candidate* shows expertise in research and the ability to evaluate, and implement research findings in the practice of the branch of specialisation.

3) Attitudes and Values
The qualifying *candidate* shows ethical, compassionate and skilled ability to conduct all aspects of specialist surgical practice, both in relation to the care of individuals and of populations.

4) Teaching Role
The qualifying *candidate* has knowledge of the principles and practice of Ophthalmology from the basic to tan advanced level and is able to train others in the speciality.

5) Self Development
The qualifying *candidate* will have acquired and will demonstrate self direction and independence in his or her learning in order to become a lifelong *candidate*, and will recognise personal education needs, utilise appropriate learning situations and evaluate her or his own progress.

9.3.22 Master of Medicine in Orthopaedic Surgery

Qualification Title	Master of Medicine in Orthopaedic Surgery
Qualification Abbreviation	MMed (Orthopaedic Surgery)
Minimum Period of study	4 years
NQF Exit Level	Level 9
NQF Credits	Total minimum 480

Exit Level Outcomes

1) Clinical Knowledge and Competence
The qualifying *candidate* is competent in clinical and surgical skills at the specialist level.

2) Research Ability
The qualifying *candidate* shows expertise in research and the ability to evaluate, and implement research findings in the practice of the branch of specialisation.

3) Attitudes and Values
The qualifying *candidate* shows ethical, compassionate and skilled ability to conduct all aspects of specialist surgical practice, both in relation to the care of individuals and of populations.

4) Teaching Role
The qualifying *candidate* has knowledge of the principles and practice of Orthopaedics from the basic to an advanced level and is able to train others in the speciality.

5) Self Development
The qualifying *candidate* will have acquired and will demonstrate self direction and independence in his or her learning in order to become a lifelong *candidate*, and will recognise personal education needs, utilise appropriate learning situations and evaluate her or his own progress.

9.3.23 Master of Medicine in Otorhinolaryngology

Qualification Title	Master of Medicine in Otorhinolaryngology
Qualification Abbreviation	MMed (Otorhinolaryngology)
Minimum Period of study	4 years
NQF Exit Level	Level 9
NQF Credits	Total minimum 480

Exit Level Outcomes

1) Clinical Knowledge and Competence
The qualifying *candidate* is competent in clinical and surgical skills at the specialist level.

2.) Research Ability
The qualifying *candidate* shows expertise in research and the ability to evaluate, and implement research findings in the practice of the branch of specialisation.

3) Attitudes and Values
The qualifying *candidate* shows ethical, compassionate and skilled ability to conduct all aspects of specialist surgical practice, both in relation to the care of individuals and of populations.

4) Teaching Role
The qualifying *candidate* has knowledge of the principles and practice of Otorhinolaryngology and Head and Neck Surgery from the basic to an advanced level and is able to train others in the speciality.

5) Self Development
The qualifying *candidate* will have acquired and will demonstrate self direction and independence in his or her learning in order to become a lifelong *candidate*, and will recognise personal education needs, utilise appropriate learning situations and evaluate her or his own progress.

9.3.24 Master of Medicine in Paediatrics

Qualification Title	Master of Medicine in Paediatrics
Qualification Abbreviation	MMed (Paediatrics)
Minimum Period of study	4 years
NQF Exit Level	Level 9
NQF Credits	Total minimum 480

Exit Level Outcomes

1) Clinical Knowledge and Competence
The qualifying *candidate* is competent in clinical skills at the specialist level.

2) Research Ability
The qualifying *candidate* shows expertise in research and the ability to evaluate, teach and implement research findings in the practice of the branch of specialisation.

3) Attitudes and Values
The qualifying *candidate* shows ethical, compassionate and skilled ability to conduct all aspects of specialist medical practice, both in relation to the care of individuals and of populations.

4) Teaching Role
The qualifying *candidate* has knowledge of the principles and practice of medicine from the basic to an advanced level and is able to train others in the speciality.

5) Self Development
The qualifying *candidate* will have acquired and will demonstrate self direction and independence in his or her learning in order to become a lifelong *candidate*, and will recognise personal education needs, utilise appropriate learning situations and evaluate her or his own progress.

9.3.25 Master of Medicine in Paediatric Surgery

Qualification Title	Master of Medicine in Paediatric Surgery
Qualification Abbreviation	MMed (Paediatric Surgery)
Minimum Period of study	4 years
NQF Exit Level	Level 9
NQF Credits	Total minimum 480

Exit Level Outcomes

1) Ability to identify and solve problems using critical and creative thinking.
2) Ability to use science and technology appropriately.
3) Ability to communicate effectively both verbally and in writing.
4) Ability to work as a team member.
5) Ability to demonstrate empathy and sensitivity to the individual and community, acknowledging cultural and religious differences.
6) Ability to organise and manage activities responsibly and effectively.
7) Ability to collect, analyse and critically evaluate information and show research competency.
8) Ability to show sensitivity to the patient, care givers and community.
9) Able to effectively diagnose and medically/surgically manage all general paediatric surgical and urologic and related disorders.
10) Effectively operate on common surgical diseases and disorders of childhood as required.
11) Able to effectively conduct a specialist health care service in this discipline.
12) Able to effectively conduct a specialist health care service in this discipline.

9.3.26 Master of Medicine in Plastic and Reconstructive Surgery

Qualification Title	Master of Medicine in Plastic and Reconstructive Surgery
Qualification Abbreviation	MMed (Plastic and Reconstructive Surgery)
Minimum Period of study	4 years
NQF Exit Level	Level 9
NQF Credits	Total minimum 480

Exit Level Outcomes

1) Clinical Knowledge and Competence
   The qualifying *candidate* is competent in clinical and surgical skills at the specialist level.
2) Research Ability
   The qualifying *candidate* shows expertise in research and the ability to evaluate, and implement research findings in the practice of the branch of specialisation.
3) Attitudes and Values
   The qualifying *candidate* shows ethical, compassionate and skilled ability to conduct all aspects of specialist surgical practice, both in relation to the care of individuals and of populations.

4) Teaching Role
The qualifying *candidate* has knowledge of the principles and practice of Plastic and Reconstructive Surgery from the basic to an advanced level and is able to train others in the speciality.

5) Self Development
The qualifying *candidate* will have acquired and will demonstrate self direction and independence in his or her learning in order to become a lifelong *candidate*, and will recognise personal education needs, utilise appropriate learning situations and evaluate her or his own progress.

9.3.27 Master of Medicine in Psychiatry

Qualification Title	Master of Medicine in Psychiatry
Qualification Abbreviation	MMed (Psychiatry)
Minimum Period of study	4 years
NQF Exit Level	Level 9
NQF Credits	Total minimum 480

Exit Level Outcomes

1) Clinical Knowledge and Competence
The qualifying *candidate* is competent in clinical skills at the specialist level.

2) Research Ability
The qualifying *candidate* shows expertise in research and the ability to evaluate, teach and implement research findings in the practice of the branch of specialisation.

3) Attitudes and Values
The qualifying *candidate* shows ethical, compassionate and skilled ability to conduct all aspects of specialist medical practice, both in relation to the care of individuals and of populations.

4) Teaching Role
The qualifying *candidate* has knowledge of the principles and practice of medicine from the basic to an advanced level and is able to train others in the speciality.

5) Self Development
The qualifying *candidate* will have acquired and will demonstrate self direction and independence in his or her learning in order to become a lifelong *candidate*, and will recognise personal education needs, utilise appropriate learning situations and evaluate her or his own progress.

9.3.28 Master of Medicine in Public Health Medicine

Qualification Title	Master of Medicine in Public Health Medicine
Qualification Abbreviation	MMed (Public Health Medicine)
Minimum Period of study	4 years
NQF Exit Level	Level 9
NQF Credits	Total minimum 500

Exit Level Outcomes

1) Diagnose cases of commonly occurring preventable diseases, in order to make an insightful community diagnosis.
2) Be able to describe the aetiology and epidemiology of commonly occurring health-related conditions.
3) Be able to carry out a rapid epidemiological assessment, including the investigation of a disease outbreak.
4) Be able to design, implement, and report on the results of an epidemiological study.
5) Be able to formulate and prioritise appropriate public health research questions.
6) Be able to interpret one's own data, as well as the data and findings of other investigators, including publications in the scientific literature.
7) Be able to motivate for adequate funding and resources required to carry out these activities.
8) Be able to describe the burden of a disease or group of diseases, in economic and medical terms for the individual, for the community, and for society.
9) Be able to distinguish between impairment and disability, and to describe the nature of a disability for workers' compensation purposes.
10) Be able to describe health services provided in terms of inputs, processes, outputs and outcomes.
11) Be able to describe the nature and patterns of service provision and utilisation in terms of efficacy, efficiency, equity, acceptability, accessibility, and appropriateness (with respect to needs and affordability).
12) Be able to evaluate a health system.
13) Be familiar with the investigation of, and treatment for, uncomplicated commonly occurring occupational and communicable diseases, in order to be able to achieve the overall learning outcome with greater insight.
14) Be able to lead, communicate, advocate, plan and manage for a health promoting intervention at all levels of societal organisation.
15) Be able to design, conduct and report on an intervention study.
16) Be able to evaluate the processes and the results of health promoting interventions, and to modify the processes accordingly as required.

9.3.29 Master of Medicine in Radiation Oncology

Qualification Title	Master of Medicine in Radiation Oncology
Qualification Abbreviation	MMed (Radiation Oncology)
Minimum Period of study	4 years
NQF Exit Level	Level 9
NQF Credits	Total minimum 480

Exit Level Outcomes

1) Clinical Knowledge and Competence
The qualifying *candidate* is competent in clinical skills at the specialist level.
2) Research Ability
The qualifying *candidate* shows expertise in research and the ability to evaluate, teach and implement research findings in the practice of the branch of specialisation.

3) Attitudes and Values
The qualifying *candidate* shows ethical, compassionate and skilled ability to conduct all aspects of specialist medical practice, both in relation to the care of individuals and of populations.

4) Teaching Role
The qualifying *candidate* has knowledge of the principles and practice of Radiation Oncology from the basic to an advanced level and is able to train others in the speciality.

5) Self Development
The qualifying *candidate* will have acquired and will demonstrate self direction and independence in his or her learning in order to become a lifelong *candidate*, and will recognise personal education needs, utilise appropriate learning situations and evaluate her or his own progress.

9.3.30 Master of Medicine in Surgery

Qualification Title	Master of Medicine in Surgery
Qualification Abbreviation	MMed (Surgery)
Minimum Period of study	4 years
NQF Exit Level	Level 9
NQF Credits	Total minimum 480

Exit Level Outcomes

1) Clinical Knowledge and Competence
The qualifying *candidate* is competent in clinical and surgical skills at the specialist level.

2) Research Ability
The qualifying *candidate* shows expertise in research and the ability to evaluate, and implement research findings in the practice of the branch of specialisation.

3) Attitudes and Values
The qualifying *candidate* shows ethical, compassionate and skilled ability to conduct all aspects of specialist surgical practice, both in relation to the care of individuals and of populations.

4) Teaching Role
The qualifying *candidate* has knowledge of the principles and practice of surgery from the basic to an advanced level and is able to train others in the speciality.

5) Self Development
The qualifying *candidate* will have acquired and will demonstrate self direction and independence in his or her learning in order to become a lifelong *candidate*, and will recognise personal education needs, utilise appropriate learning situations and evaluate her or his own progress.

9.3.31 Master of Medicine in Urology

Qualification Title	Master of Medicine in Urology
Qualification Abbreviation	MMed (Urology)
Minimum Period of study	4 years
NQF Exit Level	Level 9
NQF Credits	Total minimum 480

Exit Level Outcomes

1) Clinical Knowledge and Competence
The qualifying *candidate* is competent in clinical and surgical urology skills at the specialist level.

2) Research Ability
The qualifying *candidate* shows expertise in research and the ability to evaluate, and implement research findings in the practice of the branch of specialisation.

3) Attitudes and Values
The qualifying *candidate* shows ethical, compassionate and skilled ability to conduct all aspects of specialist urology practice, both in relation to the care of individuals and of populations.

4) Teaching Role
The qualifying *candidate* has knowledge of the principles and practice of Urology from the basic to an advanced level and is able to train others in the speciality.

5) Self Development
The qualifying *candidate* will have acquired and will demonstrate self direction and independence in his or her learning in order to become a lifelong *candidate*, and will recognise personal education needs, utilise appropriate learning situations and evaluate her or his own progress.

9.3.32 Master of Medicine in Virology

Qualification Title	Master of Medicine in Virology
Qualification Abbreviation	MMed (Virology)
Minimum Period of study	4 years
NQF Exit Level	Level 9
NQF Credits	Total minimum 480

Exit Level Outcomes

1) Clinical Knowledge and Competence
The qualifying *candidate* is competent in clinical and laboratory skills at the specialist level.

2) Research Ability
The qualifying *candidate* shows expertise in research and the ability to evaluate, and implement research findings in the practice of the branch of specialisation.

3) Attitudes and Values
The qualifying *candidate* shows ethical, compassionate and skilled ability to conduct all aspects of specialist practice.

4) Teaching Role
The qualifying *candidate* has knowledge of the principles and practice of Virology from the basic to an advanced level and is able to train others in the speciality.

5) Self Development
The qualifying *candidate* will have acquired and will demonstrate self direction and independence in his or her learning in order to become a lifelong *candidate*, and will recognise personal education needs, utilise appropriate learning situations and evaluate her or his own progress.

9.3.33 Master of Pharmacy

Qualification Title	Master of Pharmacy
Qualification Abbreviation	MPharm
Minimum Period of study	1 year full-time or 2 years part-time
NQF Exit Level	Level 9
NQF Credits	Total minimum 180

Exit Level Outcomes

1) Clinical knowledge and competence

The qualifying *candidate* is competent in drug knowledge, application and health care strategies at an advanced level

The qualifying *candidate* has acquired an advanced understanding and knowledge of:

a) pharmacist advised care;
b) the provision of drug information, education and pharmaceutical care;
c) the promotion of safe, efficient drug regimens;
d) the fate of drugs in patients with a variety of disease states;
e) the development and implementation of health care plans;
f) the aetiology and pathology of disease states;
g) a knowledge of signs and symptoms.

2) Research ability

The qualifying *candidate* shows expertise in research and the ability to evaluate, teach and implement research findings in the practice of the branch specialisation.

3) Attitudes and values

The qualifying *candidate* shows ethical, compassionate and skilled ability to conduct all aspects of specialist pharmacy practice, both in relation to the care of individuals and of populations.

4) Teaching role

The qualifying *candidate* has knowledge of the principles and practice of pharmacy from the basic to the advanced level and is able to train others in the speciality.

5) Self-development

The qualifying *candidate* will have acquired and will demonstrate self direction and independence in his or her learning in order to become a lifelong *candidate*, and will recognise personal education needs, utilise appropriate learning situations and evaluate her or his own progress.

9.3.34 Master of Public Health

Qualification Title	Master of Public Health
Qualification Abbreviation	MPH
Minimum Period of study	2 years full-time or 4 years part-time
NQF Exit Level	Level 9
NQF Credits	Total minimum 360

Exit Level Outcomes

1) Knowledge and competence

The qualifying *candidate* is competent in public health skills at the advanced level.

2) Research ability

The qualifying *candidate* shows expertise in research and the ability to evaluate, teach and implement research findings in the practice of public health.

3) Attitudes and values

The qualifying *candidate* shows ethical, compassionate and skilled ability to conduct all aspects of public health practice in relation to the care of populations and the organisation and management of health services.

4) Developing capacity

The qualifying *candidate* has knowledge of the principles and practice of public health from the basic to an advanced level and is able to develop capacity in others.

5) Self development

The qualifying *candidate* will have acquired and will demonstrate self direction and independence in his or her learning in order to become a lifelong *candidate*, and will recognise personal education needs, utilise appropriate learning situations and evaluate her or his own progress.

9.3.35 Master of Science in Dentistry

Qualification Title	Master of Science in Dentistry
Qualification Abbreviation	MSc (Dentistry)
Minimum Period of study	1 year full-time or 2 years part-time
NQF Exit Level	Level 9
NQF Credits	Total minimum 180

Exit Level Outcomes

1) Problem-solving ability

The qualifying *candidate* is competent to perform high order problem solving techniques (collecting, researching, analysing, organising and critically evaluating information at an advanced level) and to apply advanced techniques in the field of dentistry to recognise, investigate, treat and prevent.

2) Advanced knowledge of dental practice and the application thereof.

The qualifying *candidate* is competent to apply advanced knowledge to determine the causes of functional problems and to solve and manage problems.

3) Research mastery

The qualifying *candidate* shows expertise in research and the ability to evaluate, teach and implement research findings in dental practice.

4) Attitudes and values

The qualifying *candidate* shows ethical, compassionate and skilled ability to conduct all aspects of advanced dental practice, both in relation to the care of individuals and of populations.

5) Self development

The qualifying *candidate* will have acquired and will demonstrate self direction and independence in his or her learning in order to become a lifelong *candidate*, and will recognise personal education needs, utilise appropriate learning situations and evaluate her or his own progress.

6) Understanding the world as a set of related systems by recognising that problem- solving contexts do not exist in isolation.

In the contexts of the whole individual and his or her place in the family, society the population and the environment, at the end of the msc (dent) degree the qualifying *candidate* will have knowledge of health and its promotion disease and disability and its prevention and management in these contexts.

7) Working with others as members of a team, group, organisation, community

At the end of the msc (dent) the qualifying *candidate* will be competent to work with others as a member of a team, group, organisation and community.

8) Professional and general communication

At the end of the msc (dent) the qualifying *candidate* will be competent to communicate and teach effectively both orally and in writing with peers, colleagues, patients, members of the health care team and the public.

9.3.36 Master of Science in Medicine

Qualification Title	Master of Science in Medicine
Qualification Abbreviation	MSc (Medicine)
Minimum Period of study	1 year full-time (some fields may be taken part-time)
NQF Exit Level	Level 9
NQF Credits	Total minimum 180

Exit Level Outcomes

1) Problem-solving ability

The qualifying *candidate* is competent to perform high order problem solving techniques (collecting, researching, analysing, organising and critically evaluating information at an advanced level) and to apply advanced techniques in the field.

2) Advanced knowledge in the field and the application thereof.

The qualifying *candidate* is competent to apply advanced knowledge to determine the causes of problems and to solve and manage problems in the particular field.

3) Research competence

The qualifying *candidate* shows expertise in research and the ability to evaluate and implement research findings in the field.

4) Attitudes and values

The qualifying *candidate* shows ethical, compassionate and skilled ability to conduct all aspects of advanced practice in the field, both in relation to the care of individuals and of populations.

5) Self development

The qualifying *candidate* will have acquired and will demonstrate self direction and independence in his or her learning in order to become a lifelong *candidate*, and will recognise personal education needs, utilise appropriate learning situations and evaluate her or his own progress.

9.3.37 Master of Science in Nursing

Qualification Title	Master of Science in Nursing
Qualification Abbreviation	MSc (Nursing)
Minimum Period of study	2 years full-time
NQF Exit Level	Level 9
NQF Credits	Total minimum 180

Exit Level Outcomes

1) Problem-solving ability

The qualifying *candidate* is competent to perform high order problem solving techniques (collecting, researching, analysing, organising and critically evaluating information at an advanced level) and to apply specialised knowledge and skills in the field of nursing or midwifery to recognise, investigate, treat and prevent.

2) Specialist knowledge of nursing practice and the application thereof.

The qualifying *candidate* is competent to apply specialist knowledge to manage problems associated with the activities of daily living.

3) Research mastery

The qualifying *candidate* shows expertise in research and the ability to evaluate, teach and implement research findings in nursing or midwifery practice.

4) Attitudes and values

The qualifying *candidate* shows ethical, compassionate and skilled ability to conduct all aspects of specialist nursing practice, both in relation to the care of individuals and of populations.

5) Self development

The qualifying *candidate* will have acquired and will demonstrate self direction and independence in his or her learning in order to become a lifelong *candidate*, and will recognise personal education needs, utilise appropriate learning situations and evaluate her or his own progress.

6) Understanding the world as a set of related systems by recognising that problem- solving contexts do not exist in isolation.

In the contexts of the whole individual and his or her place in the family, society the population and the environment, at the end of this programme the qualifying *candidate* will have knowledge of health and its promotion, disease and disability and its prevention and management in these contexts.

7) Working with others as members of a team, group, organisation, community.

At the end of this programme the qualifying *candidate* will be competent to work with others as a member of a team, group, organisation and community.

8) Professional and general communication

At the end of this programme the qualifying *candidate* will be competent to communicate and teach effectively both orally and in writing with peers, colleagues, patients, members of the health care team and the public.

9.3.38 Master of Science in Occupational Therapy

Qualification Title	Master of Science in Occupational Therapy
Qualification Abbreviation	MSc (Occupational Therapy)
NQF Exit Level	Level 9
Minimum Period of study	1 year full-time or 2 years part-time
NQF Credits	Total minimum 180

Exit Level Outcomes

1) Research mastery

The qualifying *candidate* shows expertise in research and the ability to evaluate, teach and implement research findings in practice.

2) Specialist knowledge of occupational therapy practice and the application thereof.

The qualifying *candidate* is competent to apply specialist knowledge to occupational therapy and occupational science problems.

3) Problem-solving ability

The qualifying *candidate* is competent to perform high order problem solving techniques and to apply the specialised tools and techniques of the field of occupational therapy to the solution of such problems.

4) Attitudes and values

The qualifying *candidate* shows ethical, compassionate and skilled ability to conduct all aspects of specialist occupational therapy practice, both in relation to the care of individuals and of populations.

5) Self development

The qualifying *candidate* will have acquired and will demonstrate self direction and independence in his or her learning in order to become a lifelong *candidate*, and will recognise personal education needs, utilise appropriate learning situations and evaluate her or his own progress.

9.3.39 Master of Science in Physiotherapy

Qualification Title	Master of Science in Physiotherapy
Qualification Abbreviation	MSc (Physiotherapy)
Minimum Period of study	1 year full-time or 2 years part-time
NQF Exit Level	Level 9
NQF Credits	Total minimum 180

Exit Level Outcomes

1) Problem-solving ability

The qualifying *candidate* is competent to perform high order problem solving techniques (collecting, researching, analysing, organising and critically evaluating information at an advanced level) and to apply specialised techniques in the field of physiotherapy to recognise, investigate, treat and prevent.

2) Specialist knowledge of physiotherapy practice and the application thereof.

The qualifying *candidate* is competent to apply specialist knowledge to determine the causes of functional problems and to solve and manage physiotherapeutic problems.

3) Research mastery

The qualifying *candidate* shows expertise in research and the ability to evaluate, teach and implement research findings in physiotherapy practice.

4) Attitudes and values

The qualifying *candidate* shows ethical, compassionate and skilled ability to conduct all aspects of specialist physiotherapy practice, both in relation to the care of individuals and of populations.

5) Self development

The qualifying *candidate* will have acquired and will demonstrate self direction and independence in his or her learning in order to become a lifelong *candidate*, and will recognise personal education needs, utilise appropriate learning situations and evaluate her or his own progress.

6) Understanding the world as a set of related systems by recognising that problem solving contexts do not exist in isolation.

In the contexts of the whole individual and his or her place in the family, society the population and the environment, at the end of the msc physiotherapy degree the qualifying *candidate* will have knowledge of health and its promotion disease and disability and its prevention and management in these contexts.

7) Working with others as members of a team, group, organisation, community

   At the end of the msc physiotherapy course the qualifying *candidate* will be competent to work with others as a member of a team, group, organisation and community.

8) Professional and general communication

   At the end of the msc physiotherapy course the qualifying *candidate* will be competent to communicate and teach effectively both orally and in writing with peers, colleagues, patients, members of the health care team and the public.

9.3.40 Master of Science in Epidemiology

Qualification Title	Master of Science in Epidemiology
Qualification Abbreviation	MSc (Epidemiology)
Minimum Period of study	2 years full-time or 4 years part-time
NQF Exit Level	Level 9
NQF Credits	Total minimum 360

Exit Level Outcomes

1) Apply theories of epidemiology to analyse, interpret and evaluate various critical biomedical and public health problems.
2) Apply theories of other relevant social sciences to analyse, interpret and evaluate various critical biomedical and public health problems.
3) Apply theories of biostatistics and data management to analyse, interpret and evaluate various critical biomedical and public health problems.
4) To be able to integrate epidemiological, bio statistical, demographical and other social science in research work. To be able to conduct research work, analyze obtained data, summarize, evaluate and disseminate the research findings.

9.3.41 Master of Health Sciences Education

Qualification Title	Master of Health Sciences Education
Qualification Abbreviation	MHSc (Education)
Minimum Period of study	1 year full-time or 2 years part-time
NQF Exit Level	Level 9
NQF Credits	Total minimum 180

Exit Level Outcomes

1) Apply high order problem solving techniques in relation to educational strategies.
2) Construct innovative teaching/learning and assessment methodologies as applied to the education of health professionals.
3) Formulate a research proposal, implement the proposal and prepare a written report of the findings and critique research findings in the field of health sciences education and, where applicable, implement findings.
4) Demonstrate self direction and independence in own learning, appraise personal education needs and evaluate personal progress.

9.4 Doctoral Degrees

9.4.1 Doctor of Philosophy

Qualification Title	Doctor of Philosophy
Qualification Abbreviation	PhD
Minimum Period of study	2 years full-time or 4 years part-time
NQF Exit Level	Level 10
NQF Credits	Total minimum 360

Exit Level Outcomes

1) The qualifying *candidate* is capable of independent and original research.
2) The qualifying *candidate* possesses highly specialised, authoritative knowledge and is competent to apply that knowledge to the solution of problems.
3) The qualifying *candidate* is self-directed and self-critical.

9.5 Senior Doctoral Degrees

9.5.1 Doctor of Science in Dentistry

Qualification Title	Doctor of Science in Dentistry
Qualification Abbreviation	DSc (Dent)
Minimum Period of study	n/a (published work)
NQF Exit Level	Level 10
NQF Credits	Total minimum 360

Exit Level Outcomes

***Candidates* are required to be able to:**

1) Access and process information responsibly using a range of appropriate technologies.
2) Communicate and produce information responsibly using a range of appropriate technologies.
3) Critically analyse and problem solve.
4) Demonstrate a thorough knowledge of methods and relevant literature appropriate to research and a mastery of relevant techniques.
5) Contribute substantial and original scholarly work to the international body of knowledge in their field.
6) Show understanding of their ethical obligations.
7) Assess the significance of their work.
8) Demonstrate his/her authority in the chosen field of research.

9.5.2 Doctor of Science in Medicine

Qualification Title	Doctor of Science in Medicine
Qualification Abbreviation	DSc(Med)
Minimum Period of study	n/a (published work)
NQF Exit Level	Level 10
NQF Credits	Total minimum 360

Exit Level Outcomes

***Candidates* are required to be able to:**

1) Access and process information responsibly using a range of appropriate technologies.
2) Communicate and produce information responsibly using a range of appropriate technologies.
3) Critically analyse and solve problems.
4) Demonstrate a thorough knowledge of methods and relevant literature appropriate to research and a mastery of relevant techniques.
5) Contribute substantial and original scholarly work to the international body of knowledge in their field.
6) Show understanding of their ethical obligations.
7) Assess the significance of their work.
8) Demonstrate his/her authority in the chosen field of research.

9.6 Postgraduate Diplomas

9.6.1 Postgraduate Diploma in Health Sciences Education

Qualification Title	Postgraduate Diploma in Health Sciences Education
Qualification Abbreviation	PGDip (Health Sciences Education)
Minimum Period of study	1 year full-time or 2 years part-time NQF
Exit Level	Level 8
NQF Credits	Total minimum 120

Exit Level Outcomes

The qualifying *candidate* should be able to:

1) Identify and discuss theories of teaching and learning applicable in the field of health science education.
2) Apply advanced knowledge in understanding of teaching methodologies used in the teaching of health professions.
3) Apply advanced knowledge to understanding the essential elements of assessment; assessment options and the need for effective feedback.
4) Identify and explain concepts and principles that influence curricula design and develop a curriculum for a course.

9.6.2 Postgraduate Diploma in Occupational Therapy

Qualification Title	Postgraduate Diploma in Occupational Therapy
Qualification Abbreviation	PGDip (Occupational Therapy)
Minimum Period of study	2 years part-time
NQF Exit Level	Level 8
NQF Credits	Total minimum 120 PQM

Exit Level Outcomes

1) Problem-solving ability

   The qualifying *candidate* is competent to perform high order problem solving techniques (collecting, researching, analysing, organising and critically evaluating information at an advanced level) and to apply specialised techniques in the field of Occupational Therapy to recognise, investigate, treat and prevent conditions in the field of Occupational Therapy.

2) Specialist knowledge of Occupational Therapy Practice and the application thereof.

The qualifying *candidate* is competent to apply specialist knowledge to determine the causes of functional problems and to solve and manage those problems through Occupational Therapy.

3) Attitudes and values

The qualifying *candidate* shows ethical, compassionate and skilled ability to conduct all aspects of specialist Occupational Therapy practice, both in relation to the individuals and the community.

4) Self development

The qualifying *candidate* will have acquired and will demonstrate self direction and independence in his or her learning in order to become a lifelong *candidate*, and will recognise personal education needs, utilise appropriate learning situations and evaluate her or his own progress.

5) Understanding the world as a set of related systems by recognising that problem- solving contexts do not exist in isolation.

In the contexts of the whole individual and his or her place in the family, society the population and the environment, the qualifying *candidate* will have knowledge of health and its promotion, disease and disability and its prevention and management in these contexts.

6) Working with others as members of a team, group, organisation, community

The qualifying *candidate* will be competent to work with others as a member of a team, group, organisation and community.

7) Professional and general communication

The qualifying *candidate* will be competent to communicate and teach effectively both orally and in writing with peers, colleagues, clients, members of the health care team and the public.

9.6.3 Postgraduate Diploma in Physiotherapy

Qualification Title	Postgraduate Diploma in Physiotherapy
Qualification Abbreviation	PGDip (Physiotherapy)
Minimum Period of study	1 year full-time or 2 years part-time
NQF Exit Level	Level 8
NQF Credits	Total minimum 120

Exit Level Outcomes

1) Problem-solving ability

The qualifying *candidate* is competent to perform high order problem solving techniques (collecting, researching, analysing, organising and critically evaluating information at an advanced level) and to apply specialised techniques in the field of physiotherapy to recognise, investigate treat and prevent.

2) Specialist knowledge of physiotherapy practice and the application thereof.

The qualifying *candidate* is competent to apply specialist knowledge to determine the causes of functional problems and to solve and manage physiotherapeutic problems.

3) Attitudes and values

The qualifying *candidate* shows ethical, compassionate and skilled ability to conduct all aspects of specialist physiotherapy practice, both in relation to the care of individuals and of populations.

4) Self development

The qualifying *candidate* will have acquired and will demonstrate self direction and independence in his or her learning in order to become a lifelong *candidate*, and will recognise personal education needs, utilise appropriate learning situations and evaluate her or his own progress.

5) Understanding the world as a set of related systems by recognising that problem- solving contexts do not exist in isolation.

In the contexts of the whole individual and his or her place in the family, society the population and the environment, the qualifying *candidate* will have knowledge of health and its promotion disease and disability and its prevention and management in these contexts.

6) Working with others as members of a team, group, organisation, community

The qualifying *candidate* will be competent to work with others as a member of a team, group, organisation and community, both orally and in writing with peers, colleagues, patients, members of the health care team and the public.

9.6.4 Postgraduate Diploma in Health Service Management

Qualification Title	Postgraduate Diploma in Health Service Management
Qualification Abbreviation	PGDip (Health Service Management)
Minimum Period of study	1 year full-time
NQF Exit Level	Level 8
NQF Credits	Total minimum 120

Exit Level Outcomes

1) Problem-solving ability

The qualifying *candidate* is competent to perform high order problem solving techniques (collecting, researching, analysing, organising and critically evaluating information) and to apply these techniques in the field of health service management.

2) Knowledge of Management principles and the application thereof

The qualifying *candidate* is competent to apply knowledge gained in the management of health services.

3) Attitudes and values

The qualifying *candidate* shows ethical, compassionate and skilled ability in the management of health services.

4) Self development

The qualifying *candidate* will have acquired and will demonstrate self direction and independence in his or her learning in order to become a lifelong *candidate*, and will recognise personal education needs, utilise appropriate learning situations and evaluate her or his own progress.

5) Working with others as members of a team, group, organisation, community

The qualifying *candidate* will be competent to work with others as a member of a team, group, organisation and community.

6) Professional and general communication

The qualifying *candidate* will be competent to communicate and teach effectively both orally and in writing peers, colleagues, patients and their families, members of the health care team and the public.

9.6.5 Postgraduate Diploma in Occupational Health

Qualification Title	Postgraduate Diploma in Occupational Health
Qualification Abbreviation	PGDip (Occupational Health)
Minimum Period of study	2 years part-time
NQF Exit Level	Level 8
NQF Credits	Total minimum 120

Exit Level Outcomes

1) Problem-solving ability

   The qualifying *candidate* is competent to perform high order problem solving techniques (collecting, researching, analysing, organising and critically evaluating information) and to apply these techniques in the field of occupational health.

2) Knowledge of Occupational Health Practice and the application thereof.

   The qualifying *candidate* is competent to apply knowledge gained in the practice of occupational health.

3) Attitudes and values

   The qualifying *candidate* shows ethical, compassionate and skilled ability to conduct all aspects occupational health practice.

4) Self development

   The qualifying *candidate* will have acquired and will demonstrate self direction and independence in his or her learning in order to become a lifelong *candidate*, and will recognise personal education needs, utilise appropriate learning situations and evaluate her or his own progress.

5) Working with others as members of a team, group, organisation, community

   The qualifying *candidate* will be competent to work with others as a member of a team, group, organisation and community.

6) Professional and general communication

   The qualifying *candidate* will be competent to communicate effectively both orally and in writing with peers, colleagues, patients and their families, members of the health care team and the public.

9.6.6 Postgraduate Diploma in Public Health

Qualification Title	Postgraduate Diploma in Public Health
Qualification Abbreviation	PGDip (Public Health)
Minimum Period of study	1 year full-time or 2 years part-time
NQF Exit Level	Level 8
NQF Credits	Total minimum 150

Exit Level Outcomes

1) Problem-solving ability

   The qualifying *candidate* is competent to perform high order problem solving techniques (collecting, researching, analysing, organising and critically evaluating information) and to apply these techniques in the field of public health.

2) Knowledge of Public Health Practice and the application thereof.

   The qualifying *candidate* is competent to apply knowledge gained in the practice of public health.

3) Attitudes and values

The qualifying *candidate* shows ethical, compassionate and skilled ability to conduct all aspects public health practice.

4) Self development

The qualifying *candidate* will have acquired and will demonstrate self direction and independence in his or her learning in order to become a lifelong *candidate*, and will recognise personal education needs, utilise appropriate learning situations and evaluate her or his own progress.

5) Working with others as members of a team, group, organisation, community.

The qualifying *candidate* will be competent to work with others as a member of a team, group, organisation and community.

6) Both orally and in writing with peers, colleagues, patients and their families, members of the health care team and the public.

9.6.7 Postgraduate Diploma in Tropical Medicine and Hygiene

Qualification Title	Postgraduate Diploma in Tropical Medicine and Hygiene
Qualification Abbreviation	PGDip (Tropical Medicine and Hygiene)
Minimum Period of study	1 year full-time
NQF Exit Level	Level 8
NQF Credits	Total minimum 120

Exit Level Outcomes

1) The qualifying *candidate* is competent to perform high order problem solving techniques (collecting, analysing, organising and critically evaluating information) and to apply these techniques in the field of tropical medicine and hygiene.

2) Understanding the world as a set of related systems by recognising that problem- solving contexts do not exist in isolation.

In the contexts of the whole individual and his or her place in the family, society, the population and the environment, the qualifying *candidate* will have knowledge of health and its promotion, disease and its prevention, and management in these contexts.

3) Knowledge of Tropical Medicine and Hygiene Practice and the application thereof.

The qualifying *candidate* is competent to apply his or her knowledge of the major problems of human health and disease which have prevalence higher in the tropical than in the temperate zones in practice.

4) Attitudes and values

The qualifying *candidate* shows ethical, compassionate and skilled ability to conduct all aspects of tropical medicine and hygiene, both in relation to the care of individuals and of populations.

Contribute to the community as well as to individual patient welfare.

5) Self development

The qualifying *candidate* will have acquired and will demonstrate self direction and independence in his or her learning in order to become a lifelong *candidate*, and will recognise personal education needs, utilise appropriate learning situations and evaluate her or his own progress.

6) Working with others as members of a team, group, organisation, community

The qualifying *candidate* will be competent to work with others as a member of a team, group, organisation and community.

9.6.8 Postgraduate Diploma in Child Health

Qualification Title	Postgraduate Diploma in Child Health
Qualification Abbreviation	PGDip (Child Health)
Minimum Period of study	2 years part-time
NQF Exit Level	Level 8
NQF Credits	Total minimum 120

Exit Level Outcomes

1) Problem-solving ability
The qualifying *candidate* is competent to perform high order problem solving techniques (collecting, researching, analysing, organising and critically evaluating information) and to apply these techniques in the field of maternal and child health.

2) Understanding the world as a set of related systems by recognising that problem- solving contexts do not exist in isolation.
In the contexts of the whole individual and his or her place in the family, society the population and the environment, the qualifying *candidate* will have knowledge of health and its promotion, disease and disability and its prevention, and management in these contexts.

3) Knowledge of Child Health Practice and the application thereof.
The qualifying *candidate* is competent to apply knowledge gained in the practice of Child Health.

4) Attitudes and values
The qualifying *candidate* shows ethical, compassionate and skilled ability to conduct all aspects of child health, both in relation to the care of individuals and of populations.

5) Self development
The qualifying *candidate* will have acquired and will demonstrate self direction and independence in his or her learning in order to become a lifelong *candidate*, and will recognise personal education needs, utilise appropriate learning situations and evaluate her or his own progress.

6) Working with others as members of a team, group, organisation, community
The qualifying *candidate* will be competent to work with others as a member of a team, group, organisation and community.

7) Professional and general communication
The qualifying *candidate* will be competent to communicate and teach effectively both orally and in writing with peers, colleagues, patients and their families, members of the health care team and the public.

Syllabuses for the Faculty of Health Science

SCHOOL OF ANATOMICAL SCIENCES

Course Code: ANAT1002A

Course Description: Anatomy, Oral Biology and Physiology for Dental Auxiliaries

NQF Credits: 36 **NQF Level: 5**

This course covers morphological anatomy, histology and embryology. The topics covered will include basic histological cells and tissues, embryology of the early embryo (first 3 weeks of life) as well as detailed anatomy (morphological anatomy, histology and embryology) of the following regions and systems: head and neck region, nervous system, respiratory system, endocrine system and cardiovascular system. Oral Biology will include the development, structure and function of oral tissues and other structures of the head and neck, the tooth and associated tissue structure, function and development, sensory perception of the oral cavity and relevant physiological processes such as mastication and deglutition.

Course Code: ANAT2005A

Course Description: Anatomy for Nurses

NQF Credits: 24 **NQF Level: 6**

This course provides an understanding of anatomy. The morphology, basic histology of specific tissues/organs and embryology of specific systems will be taught and integrated with anatomical functions, clinical significances and applied anatomy. Topics include: Introduction to human anatomy, early embryology, basic histology of tissues, integumentary system, musculoskeletal system, cardiovascular system, respiratory system, nervous system and special senses, gastrointestinal systems, urinary system, endocrine system and reproductive systems.

Course Code: ANAT2020A

Course Description: Anatomy

NQF Credits : 48 **NQF Level: 6**

This course provides topics in: morphological anatomy, histology and embryology. Morphological anatomy include aspects of osteology, developmental anatomy and radiological anatomy. Histology and embryology include the light and electron microscope study of cells, tissue systems and organ systems. The development of man from fertilisation to birth, including congenital malformations, will also be covered. Integration of morphological anatomy, developmental anatomy and histology is a major aim of this course.

Course Code: ANAT2030A

Course Description: Anatomy for Dental Students

NQF Credits: 48 **NQF Level: 6**

This course will lead to a general understanding of the structure of the human body. The regional course in morphological anatomy includes the study of the upper limb, thorax, head and neck, neuro-anatomy, pelvis and perineum, lower limb and abdomen from models as well as prosected and wet specimens. The thorax as well as the head and neck regions is taught using cadaver based dissections. The course in histology and embryology will comprise lectures and practical classes on the primary tissues and the relevant organ systems.

Course Code: ANAT2031A	
Course Description: Anatomy for Pharmacy Students	
NQF Credits: 18	**NQF Level: 6**

This course includes topics in morphological anatomy, histology and embryology. Morphological anatomy includes the study of the upper limb, thorax, head and neck, neuro-anatomy, pelvis and perineum, lower limb and abdomen from models as well as prosected and wet specimens. Histology and embryology covers primary tissues and the relevant organ systems.

Course Code: ANAT2033A	
Course Description: Anatomy for Physiotherapy and Occupational Therapy Students	
NQF Credits: 48	**NQF Level: 6**

This course in Morphological Anatomy includes the study of the upper limb, thorax, head and neck, neuro-anatomy, pelvis and perineum, lower limb and abdomen from models as well as prosected and wet specimens. The upper limb, back and lower limb are taught using cadaver based dissections. The course in Histology & Embryology will comprise lectures and practical classes on the primary tissues and the relevant organ systems.

Course Code: ANAT3002A	
Course Description: Human Biology III	
NQF Credits: 72	**NQF Level: 7**

This course introduces key topics in biological anthropology. This course consists of four lecture topics and one protocol project. The first topic deals with human skeletal biology and its application in a forensic context, while the second explores major themes in the field of human evolution. The third block is divided into two sections dealing with human biodiversity and then research methods. A protocol project is undertaken during the fourth block where students design a feasible research project under the supervision of one of the teaching and research staff.

Course Code: ANAT3011A	
Course Description: Medical Cell Biology III	
NQF Credits: 72	**NQF Level: 7**

This course aims to provide an understanding of applied cell biology, molecular biology, and developmental biology within a biomedical framework, through lectures and independent student work. The course consists of 5 lecture-based topics which reflect the current research interests of the School, including: Teratology and Birth Defects; Introduction to Toxicology; Reproductive Immunology and Infertility; Introduction to Cellular and Molecular Neuroscience; and Cellular and Molecular Mechanisms of Cancer. The final topic is a Research Proposal, where students will identify a research question and develop a full protocol detailing relevant literature, hypotheses and methodological approaches. Course content is selected primarily from research articles in order to convey current developments in specific fields, with laboratory sessions aimed at introducing students to commonly used and cutting-edge research and diagnostic techniques. The course thus aims to prepare students for postgraduate studies and employment in the scientific arena.

Course Code: ANAT3030A	
Course Description: Oral Biology for Dental Students	
NQF Credits: 24	**NQF Level: 7**

This course correlates the specialised anatomy of the head and neck with the physiological principles and the clinical implications of these regions. Thus, the aim and objective of this course is to give dental students an understanding of the physiology, anatomy, histology, embryology and oral biology of the head and neck region. This course is taught by the Schools of Anatomical Sciences, Oral Health Sciences and Physiology. Students are introduced to all aspects of Oral Biology. The course encompasses the concepts in Oral Biology and is designed to be a foundation course to prepare students for dental clinical disciplines.

Course Code: ANAT4013A

Course Description: Human Biology Honours Coursework

NQF Credits: 70 **NQF Level: 8**

This course deals with research skill development (scientific literacy, critical thinking) in the fields of human biology and biological anthropology. It covers key concepts and new discoveries pertaining to evolutionary aspects of research in human biology through a seminar, an exercise in literature review, and short courses in basic statistics and scientific writing.

Course Code: ANAT4015A

Course Description: Medical Cell Biology Honours Coursework

NQF Credits: 70 **NQF Level: 8**

This course in Medical Cell Biology provides candidates with the opportunity to further develop their skills in scientific research. The course covers regional cell and tissue biology with candidate participation in discussion (theme) group meetings and seminar presentations, as well as completion of a critical essay on a selected topic expected. Candidates are also encouraged to attend a basic statistic and a scientific writing short course offered by the Faculty of Health Sciences throughout the year.

Course Code: ANAT4017A

Course Description: Neuroscience Honours Coursework

NQF Credits: 84 **NQF Level: 8**

This course introduces multiple neuroscience topics and research fields, such as neuroanatomy, neurophysiology, molecular neurobiology, neuropsychology, neuropsychiatry, neurology, brain-computer interface and artificial intelligence.

Course Code: ANAT5012A

Course Description: General Neuroanatomy

NQF Credits: 15 **NQF Level: 8**

This course will give the postgraduate candidate an in-depth understanding of human neuroanatomy. In modular form, the course will offer a deeper understanding of various aspects of the human nervous system. One module will explore embryology and histology of the nervous system, while three modules will explore various aspects of the morphological anatomy including the surface anatomy of the spinal cord and brain, locations of the brain and spinal cord, meninges, brain nuclear systems and tracts. This modular course extends over one academic year and consists of 40 hours of lectures, demonstrations and practical classes including a small dissection component.

Course Code: ANAT5013A

Course Description: Applied Anatomy

NQF Credits: 15 **NQF Level: 8**

This course is designed to give the postgraduate candidate an in-depth knowledge of human anatomy of head and neck, thorax and abdomen, upper and lower limb. The course is divided into four modules. Each module will consist of one week (5 days) of tuition. Each day will consist of about three hours of lectures / tutorials and one hour of supervised revision with specimens and models (totalling about 20 hours per block).The course will cover full-body clinically-orientated anatomy, systematically and equally elaborated throughout the four modules (approximately 80 hours of total contact time). Wherever possible, specimens, bones, models and other visual resources will be used to illustrate the area of the body being studied.

Course Code: ANAT7000A

Course Description: Anatomy in relation to the Nervous System

NQF Credits: 30 **NQF Level: 9**

This course will give the postgraduate candidate an in-depth understanding of human neuroanatomy. In modular form, the course will offer a deeper understanding of various aspects of the human nervous system. One module will explore embryology and histology of the nervous system, while three modules

will explore various aspects of the morphological anatomy including the surface anatomy of the spinal cord and brain, locations of the brain and spinal cord, meninges, brain nuclear systems and tracts. This modular course extends over one academic year and consists of 40 hours of lectures, demonstrations and practical classes including a small dissection component.

Course Code: ANAT7011A	
Course Description: General Neuroanatomy	
NQF Credits: 15	**NQF Level: 9**

This course will give the postgraduate candidate an in-depth understanding of human neuroanatomy. In modular form, the course will offer a deeper understanding of various aspects of the human nervous system. One module will explore embryology and histology of the nervous system, while three modules will explore various aspects of the morphological anatomy including the surface anatomy of the spinal cord and brain, locations of the brain and spinal cord, meninges, brain nuclear systems and tracts.

Course Code: ANAT7012A	
Course Description: Applied Anatomy	
NQF Credits: 15	**NQF Level: 9**

This course is designed to give the postgraduate candidate an in-depth knowledge of human anatomy of head and neck, thorax and abdomen, upper and lower limb. The course is divided into four modules. The course covers full-body clinically-orientated anatomy, systematically and equally elaborated throughout the four modules. Wherever possible, specimens, bones, models and other visual resources will be used to illustrate the area of the body being studied.

Course Code: ANAT7013A	
Course Description: Applied Anatomy for Dentists	
NQF Credits: 15	**NQF Level: 9**

This course is both clinical and academic. It focuses on the human embryonic development of the craniofacial region, the morphological anatomy of the head and neck regions, the nervous system and the histology of the dental tissues. The course gives an in depth understanding of human anatomy of the head, neck and thorax, including the cranial nerves, orofacial embryology and genetics and oral tissues.

SCHOOL OF CLINICAL MEDICINE

Many of the postgraduate courses offered by the School of Clinical Medicine form part of the clinical and theoretical requirements stipulated by the Colleges of Medicine. Full details of these syllabi may be obtained from the Colleges of Medicine (South Africa).

Course Code: ANAE5001A	
Course Description: Anaesthetics	
NQF Credits: 24	**NQF Level: 8**

This course covers aspects of modern anaesthesia in relation to dentistry, with particular attention to life support. The practical aspects of this course comprise assistance with administration of at least 20 anaesthetics and nine airway maintenance procedures.

Course Code: FAMH1001A	
Course Description: Health Systems Sciences	
NQF Credits: 18	**NQF Level: 5**

The course provides students with a good understanding of concepts of Health System Sciences. The following modules will be covered: fundamentals in health and disease; health systems science overview; applied health system dynamics; overview of public health; historical development of public health; the role of public health in ensuring population health; determinants of health.

Course Code: FAMH2006A	
Course Description: Health Systems Sciences II	
NQF Credits: 48	**NQF Level: 6**

This course provides students with a good understanding of the SA health system, framed wihin a health systems science framework. It covers the following modules: applied health systems science (basics); clinical governance, law and ethics; chronic disease management systems; health economics and payment systems; human resources (basics); health outcomes (equity & level); business value in health care (accounting and administration); scholarship (research / teaching & learning).

Course Code: FAMH3001A

Course Description: Emergency Medicine

NQF Credits: 24 **NQF Level: 7**

This course provides students with the skills to recognise and manage some of the common clinical emergencies. These include: cardiac arrest, obstructed airway, overview of the emergency services, accident scene management, airway management, ventilator techniques, cardio-respiratory emergencies, bites and stings, neuro-endocrine emergencies, acute poisoning, fractures, dislocations, bleeding and shock.

Course Code: FAMH3004A

Course Description: Health Systems Sciences III

NQF Credits: 72 **NQF Level: 7**

This course provides students with a good understandingv of concepts of Health Systems Sciences. It covers the following modules: applied health systems science; (advanced); leadership, policy and strategic management in health; quality and service improvement; business value in health care (accounting and administration) (advanced); human resources and teamwork (advanced); health information management; population health and community-oriented primary care; social marketing and health promotion; research (advanced); applied learning and teaching.

Course Code: FAMH5001A

Course Description: Quality Improvement in Rural Health Care

NQF Credits: 15 **NQF Level: 8**

This course explores the topic of quality improvement in the context of a local health system in a state of flux, as access to quality health care becomes a national imperative under a planned National Health Insurance model. The course is designed to equip the student with the techniques of quality improvement. It further explores the primary use of traditional methodologies to improve service delivery, and introduces a systems thinking approach to solving health care problems. The course also explores person-centred concepts using an appreciative enquiry approach to addressing health care challenges.

Course Code: FAMH5002A

Course Description: The Rural Health Care Context

NQF Credits: 15 **NQF Level: 8**

This course aims to provide students with an overview of the concept of rurality, the geographical and socio-cultural contexts of rural people, and the distinguishing features of rural patients and rural health services.

Course Code: FAMH7030A

Course Description: Community Oriented Primary Care

NQF Credits: 15 **NQF Level: 9**

This course introduces students to the origin, evolution and applications of Community Oriented Primary Care (COPC), the principles of health policy development, program management and their application at primary health care level within a community setting. In this course, students engage to establish a comprehensive understanding of a primary health care approach, the identification of strategic role players and their significance to the practise of community health. The course integrates the strategies for success of community orientated primary health care, the role of community and their attitude towards primary health care and the importance of community health workers.

Course Code: FAMH7031A

Course Description: The Rural Health Care Context

NQF Credits: 15 **NQF Level: 9**

This course provides students with an overview of the concept of rurality, the geographical and socio-cultural contexts of rural people, and the distinguishing features of rural patients and rural health services.

Course Code: FAMH7032A

Course Description: Development of Rural Health Services–Strategies and Approaches

NQF Credits: 15 **NQF Level: 9**

This course brings together the concepts and principles of rural health practice and their impact on local communities. The course illustrates the influence of rurality on access to health services and health care outcomes. It explores the social challenges, dedicated funding, policy debates and developmental approaches at local, provincial and national government. Rural based practice requires consideration for the structuring of a career path and support of the families of all rural professional health care workers. The course also covers the recruitment and retention challenges, interventions and the continuing medical education of health care workers.

Course Code: FAMH7033A

Course Description: Quality Improvement in Rural Health Care

NQF Credits: 15 **NQF Level: 9**

This course provides a historical overview and explanation of concepts regarding Quality Improvement (QI). Students engage in a practical integration of theory and QI tools. In this course students apply a critical evaluation of previously done primary care QI projects and prepare for implementation of individual quality improvement projects.

Course Code: FAMH7034A

Course Description: The Health of Rural People – Epidemiology and Burden of Disease

NQF Credits: 15 **NQF Level: 9**

This course brings together epidemiologic thinking to create a better understanding and knowledge of major rural health problems such as infectious diseases, chronic conditions and trauma from motor vehicle accidents. In this course the measurement of disease occurrence and causal effects is applied to the rural context. In this course students demonstrate the ability to identify strategies that can be used in the prediction, detection, treatment and control of conditions within the rural context.

Course Code: FORM4003A

Course Description: Forensic Sciences

NQF Credits: 90 **NQF Level: 8**

This course comprises a research methods component which is made up of lectures to be held throughout the course of the year, as well as 4 course topics specific to forensic biological sciences. These will include forensic anthropology, forensic entomology, psychology and investigative analysis and a fourth topic which will be the field of interest of one of the forensic pathologists in the division.

Course Code: MEDC4003A

Course Description: General Medicine and Paediatrics for Dental Students

NQF Credits: 12 **NQF Level: 8**

This course introduces dental students to aspects of internal medicine of particular relevance to the dentist. The course includes clinical bedside teaching, as well as clinical demonstrations in haematology, dermatology, neurology, renal and ICU medicine. The course offers a two-week emergency medicine block during which students are exposed to a wide variety of medical emergencies, both adult and paediatric.

Course Code: PAED5015A

Course Description: Child Health I

NQF Credits: 15 **NQF Level: 8**

This course aims to provide the theoretical basis which candidates will use to identify, investigate and manage important child health priorities, as well as a systematic understanding of the evaluation and management of child health programmes.

Course Code: PAED5016A

Course Description: Child Health II

NQF Credits: 15 **NQF Level: 8**

This course focuses on priority child health policies and programmes, both internationally and in South Africa. It starts with a global overview of policy setting, and then narrows down to critically examining specific policies and/or programmes such as school, environmental and adolescent health. The course aims to develop a systematic understanding of society and its effects on child health.

Course Code: PAED5017A

Course Description: Maternal Health

NQF Credits: 15 **NQF Level: 8**

This course focuses on priority maternal, reproductive and women's health problems and aims to develop a systematic understanding of the epidemiology of maternal health conditions, key clinical considerations for each condition, and a comprehensive understanding of the main public health interventions and programmes developed to address or manage these conditions.

Course Code: PAED5018A

Course Description: Developmental Problems in Childhood

NQF Credits: 15 **NQF Level: 8**

This course introduces the student to the theories underlying the assessment of child development and developmental theory. Developmental tools will be discussed as well as tests available for testing the systems which underlie normal development such as vision and hearing. The students will also be introduced to the basic principles of genetics.

Course Code: PAED5019A

Course Description: Behavioural problems in Childhood

NQF Credits: 15 **NQF Level: 8**

This course will utilise information acquired in Year 1 and apply it to an understanding of developmental delay and assessment of different aspects of delay. In addition to methods of assessment, management principles will also be discussed.

Course Code: PAED7007A

Course Description: Maternal Health

NQF Credits: 15 **NQF Level: 9**

This course focuses on priority maternal, reproductive and women's health problems and aims to develop a systematic understanding of the epidemiology of maternal health conditions, key clinical considerations for each condition, and a comprehensive understanding of the main public health interventions and programmes developed to address or manage these conditions.

Course Code: PAED7010A

Course Description: Child Health I

NQF Credits: 15 **NQF Level: 9**

This course provides the theoretical basis which candidates will use to identify, investigate and manage important child health priorities, as well as a systematic understanding of the evaluation and management of child health programmes.

Course Code: PAED7011A	
Course Description: Paediatrics for Physiotherapists	
NQF Credits: 30	NQF Level: 9

This course explores child development from prematurity through to adolescence. Key concepts of child development and the factors that impact on it across childhood are discussed. Pertinent paediatric orthopaedic, respiratory and neurological conditions are covered including the differential diagnosis and long term management. A strong interprofessional focus is applied across the course and a critical, evidence based approach is encouraged.

Course Code: PAED7014A	
Course Description: Developmental Problems in Childhood	
NQF Credits: 15	NQF Level: 9

This course introduces the student to the theories underlying the assessment of child development and developmental theory. Developmental tools will be discussed as well as tests available for testing the systems which underlie normal development such as vision and hearing. The students will also be introduced to the basic principles of genetics.

Course Code: PAED7015A	
Course Description: Behavioural Problems in Childhood	
NQF Credits: 15	NQF Level: 9

This course will utilise information acquired in Year 1 and apply it to an understanding of developmental delay and assessment of different aspects of delay. In addition to methods of assessment, management principles will also be discussed.

Course Code: PAED7016A	
Course Description: Introduction to Child Health	
NQF Credits: 15	NQF Level: 9

This course introduces students to topics covering normal development from birth to adulthood, including motor, linguistic and psychosocial aspects; development of the pre-term baby; developmental delay; identification of such children and developmental screening; evaluation for developmental abnormalities; sensory deficit; motor delay; speech and language delay; learning disabilities; psychometric testing in developmental problems; ADD and hyperactivity.

Course Code: PAED7019A	
Course Description: Child Health II	
NQF Credits: 15	NQF Level: 9

This course focuses on priority child health policies and programmes, both internationally and in South Africa. It starts with a global overview of policy setting, and then narrows down to critically examining specific policies and/or programmes such as school, environmental and adolescent health. The course aims to develop a systematic understanding of society and its effects on child health.

Course Code: PAED7027A	
Course Description: Maternal and Child Nutrition	
NQF Credits: 15	NQF Level: 9

This course aims to provide students with a perspective on the most critical epidemiological, biological, dietary, cultural, public health, social, economic and political factors affecting good nutrition and health. In addition, how nutrition- and food-related public policies affect health, particularly in vulnerable populations. It will also cover the design, implementation, and evaluation of global, national, provincial or community programmes and how these can be improved to enhance the nutritional status of a population or high-risk subgroups in the population.

Course Code: PAED7028A	
Course Description: A Public Health approach to Perinatal and Paediatric HIV	
NQF Credits: 15	NQF Level: 9

The HIV/AIDS epidemic in South Africa is regarded as the single greatest threat to maternal and child well-being in the country. This course introduces candidates to important principles and practices in the public health approach to perinatal and paediatric HIV. The course serves as an integrating component for the Maternal and Child Health (MCH) programme as a whole and uses HIV as a context for applying a public health approach to a range of MCH issues.

Course Code: PSMH3000A

Course Description: Psychiatry in Relation to Occupational Therapy

NQF Credits: 24 **NQF Level: 7**

This course introduces the student to basic psychopathology and to the skills of conducting a psychiatric interview. The course consists of primarily an overview of the epidemiology and the signs and symptoms of common mental disorders. It includes an approach to the biopsychosocial management of these disorders with a special focus on the role of the occupational therapist. It also covers some key components of the Mental Health Care Act as it applies to clinical psychiatry.

Course Code: PSMH5004A

Course Description: Psychological Medicine

NQF Credits: 15 **NQF Level: 8**

This course will address principles underlying the development of psychological and psychiatric disorders in childhood. Common disorders will be discussed. The students will also be exposed to the psychiatric team and principles of management will be discussed and demonstrated.

Course Code: PSMH7000A

Course Description: Psychological Medicine

NQF Credits: 15 **NQF Level: 9**

This course will address principles underlying the development of psychological and psychiatric disorders in childhood. Common disorders will be discussed. The students will also be exposed to the psychiatric team and principles of management will be discussed and demonstrated.

Course Code: SCMD1001A

Course Description: Fundamentals of Medical and Clinical Science

NQF Credits: 144 **NQF Level: 5**

This course is based on the principle of developing a sound knowledge of the medical and clinical sciences to enable understanding of conditions and management strategies. Students will be expected to have a detailed knowledge of the biopsychosocial and clinical sciences relevant both to the assessment and management of patients in district hospitals and to the performance of a range of specific procedures.

Course Code: SCMD1004A

Course Description: Bioethics for Dental Auxiliaries I

NQF Credits: 12 **NQF Level: 6**

The course considers the ethical aspects to be taken into consideration prior to providing dental treatment. Students will develop a broad understanding of the ethical communication to be in place when treating a patient.

Course Code: SCMD1005A

Course Description: Bioethics and Health Law I

NQF Credits: 3 **NQF Level: 5**

This course introduces foundational legal, ethical and professional concepts and skills, as well as their application in dentistry practice.

Course Code: SCMD2001A

Course Description: Fundamentals of Clinical Medical Practice

NQF Credits: 144 **NQF Level: 6**

This course focuses on the family. The syllabus emphasises priority diseases and procedures at different stages and ages of life. The medical and clinical sciences relevant to the assessment and management of these diseases and performance of procedures are integrated throughout.

Course Code: SCMD2002A	
Course Description: Medical Thought and Practice II	
NQF Credits: 24	NQF Level: 6

This course consists of two modules which further explore the System Dynamics, Logic and Critical Thinking and Medical Terminology concepts. It explores a systems approach to health problems discussing the concepts of systems and how they function with different data and variables. Logic and Critical Thinking moulds students into critical thinkers who apply the principles of logic to verbal reasoning, critical analysis and arguments. It includes Medical Terminology that enables students to master the necessary medical vocabulary of anatomy, physiology and molecular medicine. Real life examples from a range of medical disciplines and socio-economic aspects of health are used.

Course Code: SCMD2003A	
Course Description: Bioethics for Dental Auxiliaries II	
NQF Credits: 10	NQF Level: 7

This course introduces dental auxiliaries to some of the most important ethical issues in health care and to provide them with the tools to find ethical solutions to the dilemmas and issues they may encounter. It ensures the realisation of the core competencies established by the Health Professions Council (HPCSA). The course is also designed to fit in with the aims and objectives of the Steve Biko Centre for Bioethics. The course provides an in-depth understanding of the ethical aspects to be taken into consideration prior to and during dental treatment. The student will develop a broad understanding of the ethical communication considerations to be in place when treating a patient.

Course Code: SCMD2005A	
Course Description: Bioethics and Health Law II	
NQF Credits: 3	NQF Level: 8

This course introduces foundational legal, ethical and professional concepts and skills, as well as their application in dentistry practice.

Course Code: SCMD3000A	
Course Description: Integrated Basic Medical and Human Sciences A	
NQF Credits: 192	NQF Level: 7

This course comprises: basic concepts of medicine, life on the street, haematology , respiratory, cardiovascular and renal.

Course Code: SCMD3003A	
Course Description: Applied Clinical Medical Practice	
NQF Credits: 144	NQF Level: 7

This course focuses on the hospital and community. The syllabus emphasises the roles of the clinical associate and includes accident and emergency care and health care systems. There are electives which may be chosen from topics such as medico-legal and clinical forensic medicine, termination of pregnancy and family planning, orthopaedics, health management and quality improvement, trauma and emergency, air evacuation and combat and tropical health.

Course Code: SCMD4000A	
Course Description: Integrated Basic Medical and Human Sciences B	
NQF Credits: 192	NQF Level: 8

This course comprises: neurosciences, musculoskeletal, gastro-intestinal and nutrition, endocrine and reproduction.

Course Code: SCMD4001A	
Course Description: Bioethics and Health Law Honours Coursework	
NQF Credits: 70	NQF Level: 8

This course consists of four blocks; Introduction to Bioethics, Introduction to Health Law, Practical and Applied Health Ethics and Ethics in Research. The contact teaching is delivered in block release format. It applies major theoretical and non-theoretical frameworks, South African Law and common law in the context of health and research.

Course Code: SCMD4006A

Course Description: Advanced Clinical Medical Practice in Emergency Medicine I

NQF Credits: 50 **NQF Level: 8**

This course consists of two emergency medicine clinical rotations. The first rotation focuses on adult medical emergencies in the Emergency Medicine Unit and the second rotation focuses on adult trauma emergencies in Trauma Medical Unit.

Course Code: SCMD4009A

Course Description: Theory and Methods in Clinical Medical Research

NQF Credits: 20 **NQF Level: 8**

This course introduces the theory and methods of clinical research with a focus on emergency medicine.

Course Code: SCMD4007A

Course Description: Advanced Clinical Medical Practice in Emergency Medicine II

NQF Credits: 50 **NQF Level: 8**

This course consists of two emergency medicine clinical rotations. One clinical rotation focuses on paediatric medical emergencies in the Paediatric Emergency Unit. The second clinical rotation is a mixed rotation consisting of obstetric emergencies in emergency units and obstetric units, followed by anaesthesia at an anaesthesia department and finally intensive care at Intensive Care Units.

Course Code: SCMD5000A

Course Description: Integrated Clinical Medicine A

NQF Credits: 192 **NQF Level: 8**

This course is divided into eight components: seven of which are six weeks each and the eighth made up of activities run throughout the year. The eight components are as follows:

Internal medicine, Surgery, Paediatrics, Obstetrics

The above four rotations comprise of clinical attachments in the academic hospitals. In course performance is continually assessed.

Each discipline assesses the in-course performance as well as the students' competencies.

Mixed Block I

Made up of three disciplines: Urology, Ophthalmology and Ear, Nose and Throat. Each discipline is taught in a two week clinical attachment. Each discipline assesses the in-course performance as well as conducting an end of rotation assessment.

Mixed Block II

Made up of three disciplines: Psychiatry, Family Medicine as well as Public Health. Each discipline is taught in a two week clinical attachment. Each discipline assesses the in-course performance as well as conducting an end of rotation assessment.

Acute and Peri-operative Care

Made up of three disciplines: Emergency medicine, Anaesthesiology and Trauma. Emergency medicine is a week-long seminar and practical based rotation. Anaesthesia and Trauma are each two weeks long and combine clinical attachments with seminar teaching.

Integrated Practice (throughout the year)

Students attend medical school based activities that cover a range of multidisciplinary approaches. Activities are a mix of lectures, seminars and practical sessions. All these inputs are assessed at an integrated exam at the end of the year.

Course Code: SCMD5001A	
Course Description: Theories of Teaching and Learning	
NQF Credits: 30	NQF Level: 8

This course includes theories of teaching learning that have relevance for the field of health science education. Some of these theories are: Behaviourist theories (Thorndike and Skinner); Constructivist Theories (Piaget); social mediation theory (Vygotsky) and situated learning theory (Lave and Wenger). Other significant theorists whose work may be included are Frere, Knowles and Dewey. The course will develop an understanding of these theories and their application to the teaching and learning of disciplines within the health sciences.

Course Code: SCMD5002A	
Course Description: Teaching Methodologies for Health Science Education	
NQF Credits: 30	NQF Level: 8

This course includes concepts such as the lesson plan, preparing for and giving a good lecture, teaching methods for an innovative curricula – e.g. facilitation vs teaching; teaching at the bedside/ chairside; small group teaching / large group teaching; clinical teaching. Educational technologies that enhance student / lecturer interaction in these settings will be considered.

Course Code: SCMD5003A	
Course Description: Essentials of Assessment in Health Science Education	
NQF Credits: 30	NQF Level: 8

This course includes aspects of assessment such as setting a test paper, preparing a memorandum, allocation of marks; different types of assessment e.g. essay questions, multiple choice questions, multiple essay questions, short answer questions, OSCE's and other methods of examining in the work place. The course includes a section on the theory of assessment, including the concepts of reliability.

Course Code: SCMD5004A	
Course Description: Curriculum Design for Health Science Education	
NQF Credits: 30	NQF Level: 8

This course considers the meaning of curriculum and the factors that influence it; aspects to consider when choosing a curriculum design; the benefits and pitfalls of different designs and the methods of evaluating a curriculum as well as the concept of student-centred vs. teacher-centred curricula.

Course Code: SCMD6000A	
Course Description: Integrated Clinical Medicine B	
NQF Credits: 192	NQF Level: 8

The course is divided into nine components, seven of which are six weeks long, one of which is one week long, and one which is an assignment module completed in the second semester.

The seven components are as follows:

Internal medicine, Surgery, Paediatrics, Gynaecology and Psychiatry comprises of clinical attachments in the academic hospitals. In-course performance is continually assessed. Each discipline assesses the in-course performance as well as the students' competencies.

Mixed Block consists of three weeks each of internal medicine and orthopaedics. Assessments are conducted for each of these two components.

Integrated Primary Care (IPC) consists of clinical attachments entirely based at the primary care level using hospitals that may be outside of the greater Johannesburg area.

Forensic Medicine consists of a week-long seminar taught at medical school. Assessed by means of a Multiple Choice Question (MCQ) exam and case report.

EBM Assignment

The Evidence Based Medicine assignment is completed at the beginning of the 5th clinical rotation, and is a Satisfactory Performance (SP) requirement for entry into the end of year Integrated Primary Care examination.

Course Code: SCMD7001A

Course Description: Foundations of Health Law

NQF Credits: 18 **NQF Level: 9**

This course covers sources of South African Law, the Constitution, statutory and common law in the context of health. Criminal, civil and family law and their interaction with health will be explored. The National Health Act will be discussed as well as the amendments to the Medicines Control Act. The course also covers international law in relation to health.

Course Code: SCMD7002A

Course Description: Foundations of Bioethics

NQF Credits: 18 **NQF Level: 9**

This course enables candidates to analyse and evaluate issues in bioethics within the context of a solid ethical framework. Major theoretical, non-theoretical and other ways of viewing the world are taught. The course provides a foundational understanding of the relationship between concepts, logic and argumentation, and fallacies of reasoning that may be applied across all other courses.

Course Code: SCMD7003A

Course Description: Advanced Research Ethics

NQF Credits: 18 **NQF Level: 9**

This course critically addresses a number of topical ethical issues in research ethics. It on what constitutes unethical research, standards of care in a study, authorship guidelines and plagiarism. The role and modus operandi of Research Ethics Committees are outlined. Finally, clearly articulated standards of good clinical practice in research relevant to local realities and contexts are provided.

Course Code: SCMD7004A

Course Description: Advanced Health Ethics

NQF Credits: 18 **NQF Level: 9**

This course critically addresses a number of important issues in bioethics and health law It focuses on three to four important issues relating to ethical and medico-legal issues in clinical contexts, reproductive health, policy and public health, resource allocation, genetics, health and human rights, environmental bioethics and others. Students will learn how to apply the ethical theories, ethical and legal principles, and their critical and analytical skills learnt in the foundations units to specific ethical and medico-legal questions.

Course Code: SCMD7005A

Course Description: Research Methods

NQF Credits: 18 **NQF Level: 9**

This course provides candidates with rigorous training, in designing; implementing and evaluating research, including research design, sampling procedures and data analysis. It covers both research projects of an essentially normative and legal nature, as well as empirical projects (qualitative or quantitative) that include a normative and legal element. Candidates are trained in every part of the research cycle that is, question formulation, literature review, use of secondary sources, primary and secondary argumentation, ethical and legal analysis, methodology to collect and analyse primary data, including the writing of reports. Candidates learn to use statistical techniques, and understand statistical reporting.

Course Code: SCMD7006A

Course Description: Evidence-Informed Decision Making

NQF Credits: 8 **NQF Level: 9**

This course introduces evidence-based and evidence-informed practice. It focuses on the identification of a health science education related problem that requires answers. Candidates learn search strategies to find information that relates to the identified problem. The information retrieved is subjected to critical appraisal and analysis in terms of relevancy, robustness and bias. The acceptable information is synthesised and the findings and recommendations are communicated in both verbal and written formats.

Course Code: SCMD7007A

Course Description: Educational Strategies for the Clinical Sciences

NQF Credits: 18	NQF Level: 9

This course comprises the core components inherent in problem-based learning; learning theory related to clinical teaching; concepts and approaches to clinical teaching, problem solving and decision making; and theories of reflective practice and implementing concepts of reflective practice in the curriculum.

Course Code: SCMD7008A

Course Description: Theory and Practice of Assessment in the Health Sciences

NQF Credits: 20	NQF Level: 9

This course covers four main areas namely, theories and principles related to assessment in the health sciences, the purposes and features of assessment, alignment with teaching and outcomes, assessment tools for the Health Sciences as well as ensuring quality assessment including administrative issues.

Course Code: SCMD7009A

Course Description: Curriculum Philosophy and Design in the Health Sciences

NQF Credits: 30	NQF Level: 9

This course comprises a strong philosophical component which addresses the major issues and debates in the field of health science education. It considers the various approaches to facilitating and managing learning issues within the health sciences. Curriculum design will draw upon the understanding that ETD concepts, theories, principles and practices do not exist in isolation, but are best understood in relation to one another and in the wider context of the health sciences.

Course Code: SCMD7010A

Course Description: Scholarship of Teaching and Learning in the Health Sciences

NQF Credits: 20	NQF Level: 9

Lecturers in higher education from disciplines other than education will work with the turn towards treating their teaching in similar systematic ways as they do when researching their subjects. The notions of scholarship of higher education as a whole will be focused in on as the scholarship associated with teaching and learning. Literature pertinent to teaching and learning in the disciplines will be examined critically and theoretical analyses from an educational perspective will be undertaken. Student learning and teaching for learning, and the culture of the academy that affects teaching and student learning will be one particular focus, being mindful of the specific disciplinary cultures.

SCHOOL OF ORAL HEALTH SCIENCES

Course Code: COMD1001A

Course Description: Community Dentistry for Dental Auxiliaries

NQF Credits: 24	NQF Level: 6

This course provides students with the skills to promote optimal oral and general health to the public. This will enable the students to apply the principles and practices of epidemiology to plan and implement evidence-based programs through Health Promotion. The course introduces the student to oral health from a community perspective.

Course Code: COMD1002A

Course Description: Community Dentistry I

NQF Credits: 12	NQF Level: 5

This course comprises didactic teaching, small group discussion and an experiential learning programme to schools and crèches for dental screening and health promotion.

Course Code: COMD2003A

Course Description: Community Dentistry for Dental Auxiliaries II

NQF Credits: 24	NQF Level: 7

This course provides students with the skills to promote optimal oral and general health to the public. The course will enable the students to apply the principles and practices of epidemiology to plan and implement evidence-based programs. The course provides students with the knowledge and skills associated with the general and basic principles underlying the discipline of Community Dentistry.

Course Code: COMD3002A

Course Description: Community Dentistry II

NQF Credits: 9 **NQF Level: 7**

This course comprises didactic teaching, small group discussion and completion of a research protocol.

Course Code: COMD4003A

Course Description: Community Dentistry III

NQF Credits: 21 **NQF Level: 8**

This course comprises didactic teaching and small group discussions on epidemiology and biostatistics, the National Health Insurance, minimum intervention dentistry and clinical training at community outreach sites.

Course Code: COMD5003A

Course Description: Community Dentistry IV

NQF Credits: 20 **NQF Level: 8**

This course comprises didactic teaching, small group discussion and community-based learning programmes.

Course Code: COMD7001

Course Description: Community Dentistry I

NQF Credits: 210 **NQF Level: 9**

This course covers aspects of the following topics: biological sciences in applied biology (physiology of saliva, physiology and nutrition with special reference to CHO, protein lipid, Ca, fluoride, vitamins, minerals and trace elements); health measurement sciences (epidemiology; statistics); behavioural sciences (psychology; sociology; communication) and public health dentistry (health promotion, disease prevention).

Course Code: COMD7002A

Course Description: Community Dentistry

NQF Credits: 60 **NQF Level: 9**

This course covers the principles of community dentistry, epidemiology of dental health in South Africa; prevention, planning and evaluation, dental services and programmes; primary oral care, compliance, applied research, applied psychology and sociology.

Course Code: COMD7005

Course Description: Community Dentistry II

NQF Credits: 210 **NQF Level: 9**

This course covers aspects of the following topics: public health administration (health services management; legislation (Health Acts)); health measurement sciences (epidemiology; statistics; demography); environmental health (food, water and health; town planning, housing and health; special areas, e.g. fluoridation, smoking, drugs and alcohol, siting of health services; use of radioactive materials) and public health dentistry (primary health care – urban, rural; preventive and promotive services; priorities in personal health care; health education).

Course Code: EXPD7000A

Course Description: Research Techniques

NQF Credits: 15 **NQF Level: 9**

This course introduces candidates to key concepts required to conceptualise and define a research question which will lead to the design of a research protocol. It consists of several topics describing components of a research protocol to enable candidates to develop study tools and instruments needed in a research project. Candidates will develop analytical skills needed to review literature, and critical thinking skills needed to develop a research protocol.

Course Code: OHSC1001A	
Course Description: Dental Materials for Dental Students I	
NQF Credits: 9	**NQF Level: 5**

This course introduces dental materials science to students with little or no dental background. It provides the students with knowledge on basic properties of dental materials so that students can have a foundation to chemical and physical properties and the reactions of dental materials.

Course Code: OHSC1007A	
Course Description: Dental Materials for Dental Students I	
NQF Credits: 12	**NQF Level: 5**

This course introduces the science of dental materials to students with little or no dental background. It provides the foundation to chemical and physical properties and the reactions of dental materials.

Course Code: OHSC1002A	
Course Description: Fundamentals of Clinical Oral Health	
NQF Credits: 36	**NQF Level: 5**

This course introduces students to oral hygiene as a profession, and instils basic skills in dental assisting. It provides knowledge and practical opportunities to demonstrate good infection control measures in a variety of dental settings. The student is grounded in performing basic instrumentation and demonstrates the appropriate theoretical understanding and skills of patient assessment in a preclinical setting.

Course Code: OHSC1003A	
Course Description: Behavioural and Social Sciences for Dental Auxiliaries	
NQF Credits: 18	**NQF Level: 5**

This course introduces students to behavioural and social science concepts and principles used in health to prepare them to educate and promote oral health for individuals and communities. Theoretical and practical topics in human psycho-social development, behaviour and personality traits that influence the well-being of individuals are covered.

Course Code: OHSC1005A	
Course Description: Oral Microbiology	
NQF Credits: 7	**NQF Level: 5**

This course introduces students to general microbiology, bacterial cell, their growth requirements, genetics and pathogenicity, normal oral flora, oral streptococci, host resistance and infection, plaque formation, pathology and factors implicated in dental caries, periodontal diseases and oral abscesses. Students learn the importance of infection control in dentistry.

Course Code: OHSC1006A	
Course Description: Fundamental Dental Skills	
NQF Credits: 25	**NQF Level: 5**

This course introduces fundamental dental skills and principles at the core of dentistry. It uses practical and didactic methods to introduce students to topics of tooth and oral morphology, instrumentation and materials used in dentistry and basic clinical procedures in the discipline. The students are taught to observe, define, distinguish and reproduce shapes relating to the oral cavity; to visualise shapes and translate these into two-dimensional and three-dimensional representations; and to develop manual dexterity and psychomotor coordination by means of technical exercises.

Course Code: OHSC2004A

Course Description: Integrated Clinical Dentistry for Oral Hygienists

NQF Credits: 48 **NQF Level: 6**

The course forms the foundation of the students' knowledge and skills in dentistry and dental specialities. It is designed to conform to the expanded duties curriculum and to provide Oral Hygiene students with the knowledge and skills associated with the scope of practice in the selected dental specialists field. The student will gain an appreciation of the role of the Oral Hygienist in terms of providing the following in an integrated manner: Prosthodontics, Orthodontics, Restorative, Oral Medicine, and Maxillo Facial Oral Surgery clinical management as stipulated in the scope of practice. It will be valuable in providing the student with the necessary communication skills to educate patients treated by the various dental specialities and to communicate with the specialists. The students will understand the diagnostic, risk factors, materials, equipment, underlying biological principles and other aspects which relate to the Oral Hygienist. The student will gain clinical skills needed to assist the different dental specialists. The student will understand the materials and treatment techniques used in the different dental specialties.

Course Code: OHSC2005A

Course Description: Fundamentals of Clinical Oral Health II

NQF Credits: 48 **NQF Level: 6**

This course develops the students' knowledge and clinical skills in oral hygiene clinical practice. It provides opportunities in managing patients in both primary and secondary clinical settings. The student will therefore perform clinical assessment, diagnosis and treatment as defined in the scope of practice for oral hygienists. Oral hygiene care will be implemented by the student for individuals with special needs. Various methods of advanced instrumentation will be introduced. The application of knowledge about periodontology, applied pharmacology; Oral Medicine, Orthodontics, Oral and Maxillo Facial Radiology, Oral and Maxillo Facial Surgery and Preventive Oral Therapy will be implemented and practiced.

Course Code: OHSC2008A

Course Description: Paediatric, Endodontic and Restorative Dentistry I

NQF Credits: 30 **NQF Level: 6**

This course introduces additional skills and theoretical data. It covers more complex amalgam and tooth coloured restorations, using modern restorative methods of bonding and layering, as well as pulpal therapies in both sets of dentition and the techniques required to complete root canal treatment by hand instruments. It also covers primary tooth lesions and their subsequent treatment including stainless steel crowns, the consequences of tooth loss and space maintenance.

Course Code: OHSC2009A

Course Description: Dental Materials for Dental Students II

NQF Credits: 10 **NQF Level: 8**

This course provides pre-clinical training for the manipulation of dental materials. It focuses on the basic properties of dental materials and describes reactions of dental materials encountered. The course further enables students to select different materials for clinical use.

Course Code: OHSC3005A

Course Description: Applied Research and Dental Practice Management for Dental Auxiliaries

NQF Credits: 38 **NQF Level: 7**

This course exposes students to contemporary issues, both South African and international, in practice management, research methodology and project management. The course provides the student with the knowledge and skills to develop a protocol, undertake basic research and complete a research project. The course deals with management skills that will be applied by dental auxiliaries in a private practice and in the public sector. It will enable the student to demonstrate knowledge and skills in the administration of the practice or public sector.

Course Code: OHSC3006A	
Course Description: Fundamentals of Clinical Oral Health II	
NQF Credits: 76	NQF Level: 7

The course enhances the students' abilities to treat and educate patients in the specialised areas of dentistry. They will integrate the knowledge and practical skills developed in the first two years of study. The student demonstrates appropriate clinical and theoretical understanding of specialised patient assessment and management within a tertiary setting.

Course Code: OHSC3010A	
Course Description: Paediatric, Endodontic and Restorative Dentistry II	
NQF Credits: 25	NQF Level: 7

This course introduces additional skills and theoretical data. It includes a clinical bridging programme which acclimatises the student to the clinical environment, topics in cariology, restorative materials and systems as well as soft tissue management is incorporated together with paediatric advanced restorative techniques.

Course Code: OHSC3011A	
Course Description: Maxillo-Facial and Oral Radiology I	
NQF Credits: 6	NQF Level: 7

This course focuses on the anatomical landmarks of the craniofacial complex and the teeth on periapical, occlusal, bitewings, lateral cephalometric and panoramic radiographs. It also covers the appropriate intra-oral, extra-oral view technique and radiation protection measures for staff and students.

Course Code: OHSC3013A	
Course Description: Integrated Dentistry I	
NQF Credits: 10	NQF Level: 7

This course enables self-directed learning, working in teams, clinical reasoning, self-directed research toward problem solving and presenting oral reports. It covers the application of knowledge and clinical skills to the atraumatic management of teeth. Students will be able to choose and administer the appropriate pharmacotherapeutic agents commonly used in dentistry and apply critical components to the practice of clinical dentistry with specific reference to infection control, treatment planning, ergonomics and other prior knowledge necessary to the practice of clinical dentistry.

Course Code: OHSC3012A	
Course Description: Dental Practice Management I	
NQF Credits: 4	NQF Level: 7

This course introduces communication theory and practices to dental students so that they can understand their role in healthcare teams. It explores an approach to develop effective relationships in the workplace, in terms of providing counselling services to patients and applying their professional responsibilities when interacting with other members of healthcare teams. The course also introduces theories and skills in management and leadership, team dynamics and risk management associated with managing a health care setting.

Course Code: OHSC4009A	
Course Description: Paediatric, Endodontic and Restorative Dentistry III	
NQF Credits: 26	NQF Level: 8

This course covers the theory and practice in paediatric dentistry, restorative dentistry and endodontics, including the use of rotary instruments in endodontics.

Course Code: OHSC4010A	
Course Description: Maxillo-Facial and Oral Radiology II	
NQF Credits: 8	NQF Level: 8

This course covers radiological interpretation of dental, periapical, periodontal pathology and developmental abnormalities. Limitations in radiographic interpretation will be analysed. The radiological differential diagnosis and descriptions of lesion will be done on radiographs. The radiological interpretation and differential diagnosis of jaw cysts, odontogenic and non-odontogenic jaw tumours, benign fibro-osseous lesions, inflammatory conditions and giant cell lesions of the jaws will be investigated. The radiological interpretation of dental and bone trauma, tempero-mandibular joint (normal and pathology), and maxillary antra (normal and pathology) will be evaluated.

Course Code: OHSC4011A

Course Description: Dental Practice Management II

NQF Credits: 4 **NQF Level: 8**

This course exposes students to contemporary issues, to practice management and project management in South Africa and international. The students acquire practice management and ethical skills required in private and public healthcare settings.

Course Code: OHSC4013A

Course Description: Integrated Dentistry II

NQF Credits: 28 **NQF Level: 8**

This course enables students in self-directed learning, working in teams, clinical reasoning and self-directed research toward problem-solving. Students analyse multidisciplinary case scenarios for clinical management, to integrate knowledge from various disciplines and to develop alternative treatment plans for all psychosocial and dental demographics. They are introduced to an undifferentiated patient for assessment, diagnosis and treatment.

Course Code: OHSC5008A

Course Description: Integrated Dentistry III

NQF Credits: 76 **NQF Level: 8**

This course provides the dental students with a platform to practice comprehensive patient care in an integrated manner. It focuses on the role of the dentist in terms of providing clinical management in a multidisciplinary team as stipulated in the scope of practice. It equips students with the necessary communication skills to educate patients about the various dental disciplines and to be able to refer patients to other health care providers. The course enables students to diagnose and manage the patient holistically.

Course Code: OPAT1004A

Course Description: Oral Pathology for Dental Auxiliaries I

NQF Credits: 11 **NQF Level: 5**

This course concentrates on the principles of pathology tailored to the needs of the Oral Hygienist and equips students with the necessary background knowledge needed for Oral Pathology for Dental Auxiliaries. The course provides students with the introductory knowledge and clinical skills required to understand the concepts underlying the development of pertinent orofacial pathology, systemic diseases and local non-dental diseases of the maxillofacial and neck region.

Course Code: OPAT2000A

Course Description: Oral Microbiology

NQF Credits: 12 **NQF Level: 6**

This course introduces general microbiology, normal oral flora, oral pathogens, oral infections and the importance of infection control in dentistry. It covers principles on isolation and identification of microorganisms. Topics include: general microbiology, bacterial cell, bacterial growth requirements, genetics and pathogenicity, normal oral flora, oral streptococci, host resistance and infection, plaque formation, pathology and factors implicated in dental caries, periodontal diseases, pulpal infection, denture stomatitis and oral abscesses.

Course Code: OPAT3003A	
Course Description: Oral Pathology	
NQF Credits: 13	**NQF Level: 7**

This course provides an in-depth understanding of the pathogenesis, clinical features, treatment and prognosis of pertinent oral diseases. It enables students to assess and to diagnose oral diseases clinically, formulate a differential diagnosis, understand the complications, explain the rationale for various treatment options, outline the scope of practice, identify the limitations of their ability to treat oral conditions and refer appropriately.

Course Code: OPAT7024A	
Course Description: Oral Pathology	
NQF Credits: 20	**NQF Level: 9**

This course explores the aetiology, microbiology, pathogenesis, pathology and behaviour of diseases of the oral regions. Particular emphasis is placed on those diseases encountered in the practice of periodontology and oral medicine. The clinical significance of the pathological changes is emphasised and clinico-pathological conferences and histologic practical sessions are held.

Course Code: OPAT7025A	
Course Description: Oral Microbiology	
NQF Credits: 20	**NQF Level: 9**

This course teaches students about how host's normal oral flora causes dental diseases such as dental caries, root canal infections, periodontal diseases, prosthesis related infections and abscesses of dental origin. Interactions of these infections, treatment and management of such patients will also be taught. Factors influencing these infections and transmission of infections including infection control will also be taught.

Course Code: ORMP3003A	
Course Description: Periodontology	
NQF Credits: 35	**NQF Level: 7**

This course covers the fundamental principles of assessing the general, oral and periodontal health status of patients in order to identify, diagnose and classify periodontal disease and to formulate and record basic management plans in order to enact therapeutic and preventive procedures. The course also includes practical pre-clinical sessions that expose student to clinical concepts in a protected laboratory environment in preparation for chairside dentistry in periodontics thereafter.

Course Code: ORMP4005A	
Course Description: Periodontology and Oral Medicine	
NQF Credits: 32	**NQF Level: 8**

This course consists of periodontology and oral medicine. Periodontology covers basic periodontology principles and practice that include basic concepts in surgical approaches for management of periodontal diseases as well as introduction to oral Implantology. Oral medicine covers aspects of basic aspects of basic oral medicine principles and management options.

Course Code: ORMP7021A	
Course Description: Periodontology I	
NQF Credits: 15	**NQF Level: 9**

This course introduces students to the basic concepts of periodontics, covering the following topics in depth at macro-, cellular and molecular level where applicable: Development and anatomy of the periodontium, Etiology, pre-disposing factors and pathogenesis for periodontal diseases. The epidemiology of periodontal diseases, Examination of the periodontal patient, Systemic conditions and periodontal diseases including smoking, Radiologic evaluation of the periodontium in health and in disease, Prognosis diagnosis and classification of periodontal diseases.

Course Code: ORMP7022A

Course Description: Periodontology II

NQF Credits: 20 **NQF Level: 9**

This course builds on the knowledge from Periodontology I. It focuses on treatment planning and the management of infective periodontal diseases using both non-surgical and surgical procedures inclusive of the maintenance phase, with the full understanding of the rationale for the procedures. The scope also includes the management of non-plaque-induced periodontal conditions.

Course Code: ORMP7023A

Course Description: Periodontology III

NQF Credits: 20 **NQF Level: 9**

This course builds on the knowledge from Periodontology I and II. It enables students to manage soft and hard tissue defects including complications thereof in a multidisciplinary setting.

Course Code: ORMP7024A

Course Description: Periodontology IV

NQF Credits: 20 **NQF Level: 9**

The course builds on the knowledge from Periodontology I, II and III. It enables students to manage soft and hard tissue defects including complications thereof in a multidisciplinary setting.

Course Code: ORMP7025A

Course Description: Oral Medicine I

NQF Credits: 15 **NQF Level: 9**

The course introduces the basic concepts of oral medicine, covering topics in depth at macro-, cellular- and molecular level where applicable. These include: the language of oral medicine; examination and medical risk assessment and diagnosis and diagnostic aids.

Course Code: ORMP7026A

Course Description: Oral Medicine II

NQF Credits: 20 **NQF Level: 9**

This course focuses on chemotherapeutic and surgical management of mucosal and peri-oral lesions/conditions within the scope of Oral Medicine practice, using evidence-based approach to treatment decisions. of the course includes aspects of health education and counselling on disease prevention.

Course Code: ORMP7027A

Course Description: Oral Medicine III

NQF Credits: 20 **NQF Level: 9**

This course seeks to recognise the interplay between oral and systemic conditions/diseases, drugs and the manifestation of their effects on the oral mucosa and the peri-oral tissues. The course covers orofacial pain and sensory disorders.

Course Code: ORMP7028A

Course Description: Oral Medicine IV

NQF Credits: 20 **NQF Level: 9**

The course aims to integrate all aspect of Oral Medicine including relevant topics in other courses and/disciplines that enhance understanding and clinical practice.

Course Code: ORTD3003A

Course Description: Orthodontics I

NQF Credits: 12 **NQF Level: 7**

This course introduces dento-facial growth and development as well as essential techniques and diagnosis in orthodontics.

Course Code: ORTD4003A	
Course Description: Orthodontics II	
NQF Credits: 12	**NQF Level: 8**

This course takes the student from the preclinical didactics to clinical exposure and the treatment of patients presenting simple orthodontic problems.

Course Code: ORTD7013A	
Course Description: Clinical Practice in Orthodontics I	
NQF Credits: 30	**NQF Level: 9**

Utilisation of skills learned in the didactic and technique classes to treat orthodontic patients in a clinical setting under direct supervision by and Orthodontic consultant. Major focus during the first year of study is patient records and diagnosis. Students apply biomechanical, biological and didactic understanding of molecular mechanisms in bone remodelling to the clinical management of patients. This clinical commitment forms approximately 50 percent of the first year of study.

Course Code: ORTD7014A	
Course Description: Clinical Practice in Orthodontics II	
NQF Credits: 65	**NQF Level: 9**

Course builds upon Clinical Practice in Orthodontics I. Students apply biomechanical, biological and didactic understanding of molecular mechanisms in bone remodelling to the clinical management of patients. This clinical commitment forms approximately 50 percent of the second year of study.

Course Code: ORTD7015A	
Course Description: Clinical Practice in Orthodontics III	
NQF Credits: 60	**NQF Level: 9**

This course builds upon Clinical Practice in Orthodontics II. Students extend upon the patient management skills gained in Orthodontics II and apply practice management skills, appliance removal and retention protocols. This clinical commitment forms approximately 50 percent of the third year of study.

Course Code: ORTD7025A	
Course Description: Practice Administration	
NQF Credits: 10	**NQF Level: 9**

The course is designed to cover the tasks as well as the responsibilities necessary to develop a successful Orthodontic practice. The student will be introduced to business fundamentals so that he/she can transition smoothly and successfully from registrarship to private practice.

Course Code: ORTD7026A	
Course Description: Developmental and Educational Psychology	
NQF Credits: 5	**NQF Level: 9**

The study and application of pertinent concepts and principles in developmental and educational psychology, concentrating on behaviour modification, stage theory, cognitive theory and contemporary approaches to patient care as observed from infancy through adolescence in particular but with a “life span” orientation towards the different age groups of patients seeking orthodontic care. Correlation to circumstances that deal with certain aspects of patient care e.g. compliance, mutual satisfaction and habit therapy are presented.

Course Code: ORTD7037A	
Course Description: Clinical Practice in Orthodontics IV	
NQF Credits: 45	**NQF Level: 9**

This course builds upon Clinical Practice in Orthodontics III. Students extend upon the patient management skills gained in Orthodontics III and apply practice management skills, appliance removal and retention protocols. This clinical commitment forms approximately 50 percent of the third year of study.

Course Code: ORTD7038A

Course Description: Craniofacial Anomalies I

NQF Credits: 15 **NQF Level: 9**

Orthodontic diagnosis and treatment planning procedures are taught as clinical cases and are gone over among the faculty and students. The students present their cases to the whole department. Every patient is expected to be presented irrespective of the consultant supervising the treatment. The purpose of the discussion is not to dictate treatment plans but get the student to appreciate the different approaches available to manage a malocclusion. Review of orthodontic literature to develop concepts in orthodontic diagnosis, treatment planning and treatment procedures. Students will be enrolled in this course every semester till graduation.

Course Code: ORTD7039A

Course Description: Craniofacial Anomalies II

NQF Credits: 15 **NQF Level: 9**

Orthodontic diagnosis and treatment planning procedures are taught as clinical cases and are gone over among the faculty and students. The students present their cases to the whole department. Every patient is expected to be presented irrespective of the consultant supervising the treatment. The purpose of the discussion is not to dictate treatment plans but get the student to appreciate the different approaches available to manage a malocclusion. Review of orthodontic literature to develop concepts in orthodontic diagnosis, treatment planning and treatment procedures. Students will be enrolled in this course every semester till graduation.

Course Code: ORTD7040A

Course Description: Craniofacial Anomalies III

NQF Credits: **NQF Level: 9**

Orthodontic diagnosis and treatment planning procedures are taught as clinical cases and are gone over among the faculty and students. The students present their cases to the whole department. Every patient is expected to be presented irrespective of the consultant supervising the treatment. The purpose of the discussion is not to dictate treatment plans but get the student to appreciate the different approaches available to manage a malocclusion. Review of orthodontic literature to develop concepts in orthodontic diagnosis, treatment planning and treatment procedures. Course may extend over one year of study.

Course Code: PROD2001A

Course Description: Prosthodontics I

NQF Credits: 35 **NQF Level: 6**

This laboratory-based techniques course focuses on various stages in the construction of complete dentures. The clinical course comprises an introduction to the clinic, the observation of a demonstration case and clinical assisting of senior students.

Course Code: PROD3001A

Course Description: Prosthodontics II

NQF Credits: 34 **NQF Level: 7**

This laboratory-based fixed prosthodontic techniques course builds on the content of the preclinical courses in endodontics and restorative dentistry as the restorative dentistry clinical component. It includes theoretical instruction in the science and practice of fixed prosthodontics as well as the various stages in the laboratory techniques construction of intra-coronal and extra-coronal fixed prostheses.

Course Code: PROD4001A

Course Description: Prosthodontics IV

NQF Credits: 36 **NQF Level: 8**

This course focuses on the application of knowledge through the treatment of partially dentate patients in the clinics. Students are also introduced to immediate replacement dentures and 4-visit complete denture techniques. Fixed prosthodontics is introduced through a didactic and laboratory course in occlusion and the construction of inter-occlusal devices. In a 4 week block students learn the theory

and application of fixed prosthodontic techniques. Intra- and extra-coronal preparations, and provisional restorations, are made using a simulator. Students work up patients in preparation for performing clinical fixed prosthodontic treatment.

Course Code: PROD4003A

Course Description: Prosthodontics III

NQF Credits: 23 **NQF Level: 8**

This course has two main components:

1) Removable Prosthodontics: Students establish treatment plans and perform actual treatment of patients requiring complete and removable partial dentures.
2) Fixed Prosthodontics: Students establish treatment plans and perform actual treatment for patients requiring various fixed prosthodontic treatment procedures.

Course Code: PROD7020A

Course Description: Digital Operative Dentistry I

NQF Credits: 45 **NQF Level: 9**

This course provides the opportunity to revise the biology of the stomatognathic system, acquire knowledge of the latest dental materials in the field of dental ceramics, understand the use and limitations of computer-aided design and manufacture, and gain practical experience in all aspects from tooth preparation to design, milling and cementation.

Course Code: PROD7021A

Course Description: Digital Operative Dentistry II

NQF Credits: 60 **NQF Level: 9**

This course provides the opportunity to revise the biology of the stomatognathic system, acquire knowledge of the latest dental materials in the field of dental ceramics, understand the use and limitations of computer-aided design and manufacture, and gain practical experience in all aspects from tooth preparation to design, milling and cementation.

Course Code: SURG3002A

Course Description: Maxillo-Facial and Oral Surgery I

NQF Credits: 17 **NQF Level: 7**

This course covers the basic principles of maxillo-facial and oral surgery including: infection, minor oral surgery and pain management.

Course Code: SURG4000A

Course Description: General Surgery

NQF Credits: 12 **NQF Level: 8**

Systematic course of lectures in general surgery. Clinical instruction and duties in the surgical wards of the designated hospital/s.

Course Code: SURG4005A

Course Description: Maxillo-Facial and Oral Surgery II

NQF Credits: 25 **NQF Level: 8**

This course covers in-depth the principles of maxillo-facial and oral surgery including trauma, infection, pathology, minor oral surgery, temporomandibular joint, orthognathics, pre-prosthetic surgery and implantology.

Course Code: SURG7033A

Course Description: Implantology I

NQF Credits: 15 **NQF Level: 9**

This course provides an introduction to the comprehensive knowledge of the historical background to the development of oral implants and the various types of implant systems, material, designs, surfaces including the indications and contraindications when considering placement of different implant materials and their advantages and disadvantages, as well as alternatives. Bone physiology and bone wound healing will also be reviewed within the concept of osseo-integration.

Course Code: SURG7034A

Course Description: Implantology II

NQF Credits: 20 **NQF Level: 9**

This course provides a comprehensive assessment of the patient in preparation for implant therapy. It focuses on the following: Patient examination, Criteria for patient selection, Anatomical considerations in implant therapy, Diagnostic imaging and techniques, Treatment planning, Anatomy of peri-implant tissue in health and disease, Complications in implant therapy and management thereof.

Course Code: SURG7035A

Course Description: Implantology III

NQF Credits: 20 **NQF Level: 9**

The course offers training on the surgical aspects of implant therapy in the management of partially/fully edentulous patients in the posterior and aesthetic segments, orthodontic patients and ridge augmentation procedures in preparation for implant placement. The course equips the student with the treatment options in the management of peri-implant diseases and complications following treatment.

Course Code: SURG7036A

Course Description: Implantology IV

NQF Credits: 20 **NQF Level: 9**

This course builds on the knowledge from Implantology I, II and III, and will aim to enable students to manage all implant cases including complications thereof in a multidisciplinary setting within the scope of a periodontist.

SCHOOL OF PATHOLOGY

Many of the postgraduate courses offered by the School of Pathology form part of the clinical and theoretical requirements stipulated by the Colleges of Medicine of South Africa. Full details of these syllabi may be obtained from the Colleges of Medicine (South Africa).

Course Code: ANAP2000A

Course Description: Pathology

NQF Credits: 12 **NQF Level: 6**

This course provides an introduction to pathology and causation of disease. Topics include cell death and necrosis, gangrene, amyloid degenerations and infiltrations, calcification and pigmentation. The general pathology of vascular problems, fluid and electrolyte balance, acute and chronic inflammations, disorders of growth, classification of tumours, and the characteristics of malignancy are also considered. Features of epithelial and connective tissue tumours, effects of tumours and the pathology of radiation are examined. Neuropathology. Disorders of carbohydrates. Lipid and protein metabolism, auto-immune disease. Musculo-skeletal pathology. Cardio-respiratory pathology. Pathology of the gastro-intestinal tract, liver and gallbladder. Pathology of urogenital system and breast. Pathology of the endocrine system. Pathology of the lympho-reticular system.

Course Code: ANAP3001A

Course Description: Pathology (Anatomical and Haematological)

NQF Credits: 24 **NQF Level: 7**

This course covers aspects of general pathology and the principles of the causation of disease and the structural and functional abnormalities produced. Cellular pathology and the degenerations and infiltrations and necrosis, disturbances of metabolism and nutrition; disorders of circulation, inflammation, infection and immunity, disorders of growth and tumour formation are also covered as well as the systematic pathology of the cardiovascular, respiratory, gastro-intestinal, genito-urinary, central nervous, cutaneous, endocrine and skeletal systems. Disorders of the blood and haemopoietic system, the anaemias, myeloproliferative diseases and leukaemias and the haemorrhagic diseases. The course offers practical instruction in microscopic histopathology, post-mortem demonstrations.

Course Code: ANAP4001A

Course Description: Anatomical Pathology Honours Coursework

NQF Credits: 80 **NQF Level: 8**

This course offers an introduction to ancillary histological techniques including the theoretical basis and practical use of electron microscopy, special stains, immune-fluorescence, immunohistochemistry, in situ hybridisation, micro-array technology, PCR and cytology in diagnostic histopathology. Other important areas to be covered include an introduction to morbid anatomy and histology, to the molecular biology of the cell and to the legal and safety requirements in laboratory practice.

Course Code: ANAP7000

Course Description: Morbid Anatomy and Histopathology

Wits Points: 30 **NQF Level: 9**

The course consists of laboratory training. Candidates are trained to conduct post-mortem examinations and receive extensive instruction in diagnostic histopathology. Part of the course is spent in the Department of Chemical Pathology and Haematology.

Course Code: ANAP7007A

Course Description: Applied Pathology for Physiotherapists

NQF Credits: 15 **NQF Level: 9**

This course covers both general and systemic pathology. General pathology provides a good basis for the understanding of disease mechanisms and processes. Systemic pathology has been tailored to suit the needs of physiotherapy students and covers the following: cardiovascular, respiratory, TB, pathology of HIV, pathology of the central nervous system, aspects of neuropathology (dementia and demyelinating diseases), renal, endocrine, bone and joint pathology.

Course Code: CHEP4003A

Course Description: Chemical Pathology Honours Coursework

NQF Credits: 70 **NQF Level: 8**

This course introduces the candidate to key concepts relating to molecular biology, molecular mechanisms of non-communicable diseases, mass spectrometry as well as basic human physiology and biochemistry. The coursework module consists of a techniques course, writing a review article, lectures and two theory exams.

Course Code: CMID2000A

Course Description: Microbiology

NQF Credits: 24 **NQF Level: 6**

This course introduces the student to common and important microorganisms encountered in clinical practice and the role of the microbiology laboratory in the diagnosis and management of infectious diseases. The course covers infections caused by bacteria, viruses, fungi and mycobacteria. The course consists of five themes: introduction to microbiology, infectious diseases of public health importance, special focus lectures, infection prevention strategies and principles of anti-infective therapy. The special focus lecture series comprises important infectious syndromes involving specific anatomical sites and highlights appropriate nursing measures required for implementation in healthcare setting in the management of multidrug resistant infections.

Course Code: CMID2001A

Course Description: Medical Microbiology

NQF Credits: 12 **NQF Level: 6**

The course introduces the student to common and important microorganisms encountered in clinical practice, the role of the microbiology laboratory in the diagnosis and management of infectious diseases. The course covers infections caused by bacteria, viruses, fungi and mycobacteria. The course consists of five themes: introduction to microbiology, infectious diseases of public health importance, special focus lectures, infection prevention strategies and principles of anti-infective therapy.

The special focus lecture series comprises important infectious syndromes involving different anatomical sites, provides an introduction to pharmacokinetics and pharmacodynamics of antimicrobials and highlights the problems posed by multidrug resistant organisms in healthcare setting.

Course Code: CMID3002A

Course Description: Medical Microbiology

NQF Credits: 24 **NQF Level: 7**

This course introduces the student to common and important microorganisms encountered in clinical practice, role of the microbiology laboratory in the diagnosis and management of infectious diseases. The course covers infections caused by bacteria, viruses, fungi and mycobacteria. The course consists of five themes: introduction to microbiology, infectious diseases of public health importance, special focus lectures, infection prevention strategies and the principles of anti-infective therapy. The special focus lecture series comprises important infectious syndromes involving specific anatomical sites, with emphasis on infections of the oral cavity and highlights the problems posed by multidrug resistant organisms in healthcare settings.

Course Code: CMID4001A

Course Description: Clinical Microbiology & Infectious Diseases Honours Coursework

NQF Credits: 70 **NQF Level: 8**

This course is designed to equip the student with fundamental knowledge in the diagnostic and research areas of Clinical Microbiology and Infectious Diseases. The course consists of clinical microbiology, public health, environmental microbiology and molecular biology. The course comprises basic techniques used in clinical, public health microbiology, advanced molecular biology, lectures, seminars, journal club and research projects.

Course Code: CMID7037A

Course Description: Clinical Microbiology and Infectious Diseases for Vaccinologists

NQF Credits: 5 **NQF Level: 9**

This course provides an understanding of the fundamental concepts of Clinical Microbiology and Infectious Diseases, which relate to vaccinology. It introducea candidates to the biology of prokaryotes and eukaryotes and looks at the classification of viruses as well as the structural classification of bacteria, fungi and parasites. This course examines novel, emerging and re-emerging infections, providing examples of each of these categories with focus on SARS-CoV-19. It also looks at disease prevention, covering the following topics: infection prevention and control of healthcare-associated pathogens and environmental hygiene, public health principles of prevention and control of infectious diseases, surveillance, sanitation, isolation, pre- and post-exposure prophylaxis, sterilisation, disinfection and aseptic technique.

Course Code: CMID7038A

Course Description: Project Management for Health Researchers

NQF Credits: 5 **NQF Level: 9**

This course introduces the fundamentals of project management within the context of the healthcare setting including vaccine trials and surveillance projects. It provides candidates with the knowledge and skills required to assess project feasibility, conduct project scoping and selection activities, project and organisational requirements. Candidates are shown how to plan, establish, execute and monitor research and programmatic projects. The course explores the various constraints that can be encountered in these projects and introduces candidates to project planning, specifically looking at the areas of the allocation of time and resources as well as the management and the allocation of budgets, communication within a team setting and report writing skills.

Course Code: HAEM2000A

Course Description: Molecular Medicine

NQF Credits: 48 **NQF Level: 6**

Molecular Medicine is an exciting and innovative course which prepares students for the new paradigm of precision medicine, as well as the developments in medical practice and health sciences which the 21st century will bring. The course provides a scaffold for understanding the molecular processes which contribute to disease. Human genetics and immunology are general basic sciences which are covered in depth as they feature increasingly in contemporary approaches to health and wellness. The cancer block provides an approach to the molecular pathogenesis and treatment of any cancer which the student may subsequently encounter in scientific study or clinical practice. The infectious diseases component introduces fundamental principles in microbiology which form the foundation for further study in MBBCh and the health sciences.

Course Code: HAEM3002A	
Course Description: Molecular Medicine III	
NQF Credits: 72	**NQF Level: 7**

This exciting course is aimed at third year students who are interested in the scientific, technical and research aspects of medicine. It provides an in-depth understanding of the fundamental concepts of molecular medicine and introduces recent advances in this rapidly developing field. The course also provides practical training in basic biochemical and molecular biology techniques currently used in medical research. It promotes independent thought and encourages students to accept the challenge of scientific medical research. Topics include basic molecular medicine e.g. inter-relationships between genes, RNA and proteins. Complex regulatory events in the cell, pathways involved in cellular communication, molecular basis of human diseases and how this knowledge can be used for diagnostics, drug and vaccine development is comprehensively covered.

Course Code: HAEM4007A	
Course Description: Molecular Medicine Honours Coursework	
NQF Credits: 70	**NQF Level: 8**

This course focuses on developing a thorough understanding of the cellular and molecular biology of human diseases, which can be applied towards better disease diagnosis, treatment, and prevention by developing novel diagnostic devices, drugs, and vaccines. This component consists of a techniques course which focuses on general molecular biology techniques, lectures, tutorials, critical analysis of research articles, written assignments, and a literature review completed throughout the year. The first semester comprises general topics in molecular medicine for e.g. RNA and gene regulation, basic protein biochemistry, basic immunology, and stem cell research and applications. This prepares the student for the second semester which covers the molecular mechanisms of infectious diseases and their diagnosis including HIV, malaria, and TB, as well as the molecular mechanisms of cancer and diabetes.

Course Code: HUMG4005A	
Course Description: Human Genetics Honours Coursework	
NQF Credits: 70	**NQF Level: 8**

This course introduces the student to key concepts in human genetics and consists of both a theory and research component. The theory component which covers topics such as genome structure, chromosomal abnormalities, Mendelian inheritance and also includes complex concepts such as multifactorial inheritance, copy number variation, epigenetics, gene regulation, pharmacogenomics, the human microbiome, bioinformatics and gene editing. Basic techniques seminal to the field such as PCR and Sanger sequencing, along with newer techniques such as microarrays and next generation sequencing, form key learning areas in the course. The coursework is taught through a series of lectures, tutorials and practical sessions and is assessed through written and practical tests/exams, essays and presentations.

Course Code: HUMG7017A	
Course Description: Medical Genetics I	
NQF Credits: 30	**NQF Level: 9**

The course introduces the candidate to the principles and core concepts related to medical genetics. The topics covered include: patterns of inheritance; pedigree drawing and analysis; embryology; normal child development; dysmorphology; anatomy and physiology; laboratory techniques; interpretation of laboratory results and public health genetics.

Course Code: HUMG7018A

Course Description: Medical Genetics II

NQF Credits: 30 **NQF Level: 9**

This course follows on from Medical Genetics for Genetic Counsellors 1 (HUMG7017A) and introduces the candidate to actual genetic conditions. The course covers in-depth analysis of several different genetic conditions, their inheritance patterns, clinical features, molecular basis and management requirements.

Course Code: HUMG7019A

Course Description: Principles of Genetic Counselling

NQF Credits: 20 **NQF Level: 9**

This course introduces the candidate to the fundamental aspects of genetic counselling. The course has a theoretical and practical component. The theoretical component covers the genetic counselling style, theory, processes and skills. The practical component consists of role playing genetic counselling scenarios and actual exposure to and counselling of patients in the Genetic Clinics under the supervision of qualified genetic counsellors and medical geneticists.

Course Code: HUMG7020A

Course Description: Practices of Genetic Counselling

NQF Credits: 40 **NQF Level: 9**

This course introduces the candidate to the practical aspects of genetic counselling. The course has a theoretical and practical component. The topics covered in the theoretical component include: trauma; grief; ethical considerations; case management and case presentation. The practical component of the course involves actual genetic counselling of patients under the supervision of qualified genetic counsellors and medical geneticists.

Course Code: HUMG7025A

Course Description: Research Methodology

NQF Credits: 35 **NQF Level: 9**

This course prepares candidates undertaking a research project and developing their academic clinical careers. Students are guided on appropriate study design, sampling strategies, measurement tools and approaches relevant to a genomics research project. It introduces the ethical and governance frameworks within which genomic research is undertaken. Candidates are required to make effective use of information and critically appraise and draw on evidence to justify and defend their research objectives. They also develop their knowledge of how to communicate scientific messages to both scientific and non-scientific audiences, including patients and the public, and master basic laboratory techniques used in genomics research.

Course Code: HUMG7026A

Course Description: Bioinformatics Analysis and Interpretation of Next Generation Sequencing Data

NQF Credits: 15 **NQF Level: 9**

This course provides the foundations required to interpret existing genomic research critically, formulate research questions, and collect, analyse and interpret patient data using a basic range of statistical and bioinformatics techniques. It also covers the basics of bioinformatics related to the analysis of Next Generation Sequencing Data (NGS), which includes the analysis, interpretation, assessment and application of NGS data quality in Genomic Medicine. The course further reviews professional best practice guidelines for the diagnosis and reporting of genomic variation.

Course Code: HUMG7027A	
Course Description: Fundamentals of Human Genetics and Genomics	
NQF Credits: 25	NQF Level: 9

This course covers key elements of human molecular genomics and provides a foundation for Genomic Medicine. It covers the structure of the genome and genes, how genetic information is transferred from DNA to RNA to protein, the different patterns of inheritance and different types of genetic variation, and how these impact upon disease processes and clinical outcomes. The course reviews the architecture of the human genome and the functional units embedded in it, DNA sequence variation and how variation is structured across the genome, aspects of gene regulation and the correlation between genotype and phenotype.

Course Code: HUMG7028A	
Course Description: Genomics of Common and Rare Diseases	
NQF Credits: 25	NQF Level: 9

This course uses exemplars of both common and rare diseases from across the entire healthcare spectrum to demonstrate the clinical utility of genomic data in the healthcare setting. It explains how different types of genetic variation contribute to rare and common diseases, and how they are detected, interpreted and communicated. The course explores the clinical presentation, diagnosis, management and treatment of a range of common and rare inherited diseases. It reviews traditional and advanced strategies and techniques in genomics used to identify genes responsible for both common multifactorial and rare inherited diseases, discusses the principles and practice of medical genetics and genetic counselling, and examines the role of genomics in the medical care pathway, including the patient and family perspective.

Course Code: HUMG7029A	
Course Description: Omics Techniques and Application in Genomic Medicine	
NQF Credits: 15	NQF Level: 9

This course focuses on the Omics techniques that are used to assess genomic variation in healthcare as well as research. It covers the interpretation, application and limitations of Omics techniques in analysing different disease states. It also covers the methods and technologies of genomics (both sequencing and genotyping) routinely used in genomic medicine, while placing transcriptomics, epigenomics and metabolomics in context.

Course Code: HUMG7030A	
Course Description: Precision Medicine	
NQF Credits: 5	NQF Level: 9

This course focuses on the implementation of Genomic Medicine in practice. It covers the use of genomics in precision medicine for the treatment of common and rare diseases, including cancer. It explores the different molecular and cellular actions of treatments (including gene therapy), the genomic factors affecting response and resistance to treatment and the research approaches to drug design and pharmacogenomics.

Course Code: IMML4001A	
Course Description: Immunology Honours Coursework	
NQF Credits: 70	NQF Level: 8

This course includes the following topics: innate immunology, adaptive immunology, vaccinology, infectious disease immunology, autoimmune disease, serology, immunology of cancer and primary and acquired immunodeficiency.

Course Code: SPAT7004A	
Course Description: Applied Epidemiology and Statistics	
NQF Credits: 5	NQF Level: 9

This course applies the techniques and skills learned in Epidemiology for Health Researchers I (COMH7200A) to vaccine related projects including: outbreaks, trials and surveillance projects. The scope of the course content includes: framework for study design, epidemiological investigation of an outbreak, definition of an outbreak, the role of vaccines in outbreaks, an introduction to health economics, vaccine health economics, introduction to disease epidemiology and measures of disease transmission. Students will be introduced to the principles of biostatistics, including: descriptive statistics and graphical representation, introduction to probability, non-parametric - 2x2 tables (VE), logistic regression, correlation, linear regression, ANOVA, non-parametric - power and sample size.

Course Code: SPAT7005A

Course Description: Applied Immunology

NQF Credits: 10 **NQF Level: 9**

This course builds on the knowledge acquired in the basic immunology block and introduces candidates to advanced immunology principles. Under evolutionary medicine, the following topics are examined: Darwinian medicine principles, immune immunosenescence - ageing of the immune system, evolutionary perspectives of diseases, evolutionary perspectives of an infectious disease immunology. This course also covers the child's immune system with topics such as placental antibody transfer and antibodies in infants, T cells in infants, response to conjugate versus polysaccharide vaccines and foetal and neonatal child immunology.

Course Code: SPAT7006A

Course Description: Applied Vaccinology

NQF Credits: 10 **NQF Level: 9**

This course provides an overview of novel topics on vaccine research such as the use of challenge models, development of new platforms for vaccine production in response to emerging diseases and rapid response to pandemic viruses. The concept of vaccinating pregnant women will be introduced and includes in depth key examples of this strategy. The second part of the course extends on basic vaccinology, covering in detail pathogen specific vaccines that are currently being used or are in late phase of clinical development.

Course Code: SPAT7008A

Course Description: Vaccine Development

NQF Credits: 10 **NQF Level: 9**

This course introduces key concepts of vaccine development, manufacturing and clinical vaccine trials. It equips candidates with knowledge on vaccine research and development pathways, preclinical trials, evaluation of vaccines, safety considerations and selection of participants, vaccine manufacturing in Africa, principles of Good Manufacturing Practice and good pharmacy practice in relation to vaccine distribution. The composition, roles and responsibilities of ethics committees will be explored, as will ethical considerations for undertaking vaccine trials on animals and human participants. The course examines essential documents for clinical trials and explores the areas of protocol development, involvement of local investigators, schedule of events, inclusion and exclusion criteria, sample collection and processing documentation, informed consent forms, advertising for research studies and the development of participant information leaflets.

Course Code: SPAT7009A

Course Description: Vaccines and Public Health

NQF Credits: 10 **NQF Level: 9**

This course explores the history of vaccines and the key principles of public health relevant to vaccination i.e. sustainable development goals and universal health care. The course consists of a selection of primary and secondary topics on vaccine management and programmatic challenges for vaccine delivery, including logistics, cold chain management, procurement, distribution and surveillance. The course introduces candidates to the key concepts of vaccine coverage surveys and explores the methodology for vaccine coverage surveys and vaccine preventable disease surveillance. This course introduces candidates to economics of public health and vaccination, especially exploring the cost effectiveness of vaccines.

Course Code: SPAT7010A	
Course Description: Basic Vaccinology	
NQF Credits: 10	NQF Level: 9

This course explores the history of vaccines and the types and components of vaccines i.e. polysaccharide versus conjugate vaccines. The different vaccine schedules are examined. The role of vaccines as they pertain to the following diseases are covered: Haemophilus influenza B, tuberculosis, tetanus, measles, typhoid, cholera, diphtheria, pertussis, rotavirus, streptococcus pneumonia, HPV, polio, varicella zoster virus, Neisseria meningitidis, rubella, hepatitis A, hepatitis B, rabies, yellow fever and dengue. This course gives an overview of maternal immunisation in South Africa and highlights those vaccines which are currently recommended. The role of vaccines in special groups such as immunocompromised people and pregnant women, health workers and travelers are also addressed in this course.

Course Code: SPAT7011A	
Course Description: Basic Immunology	
NQF Credits: 10	NQF Level: 9

This course provides an introduction to basic immunology. It covers antigen recognition, antigen processing and presentation to B and T cells, the molecular events leading to the generation of antibody and T cell receptor diversity, antibody effector functions, the role of CD4 and CD8 T cells and Natural Killer cells in immune responses, self-tolerance and auto-immunity. It also covers the inflammatory response and the role of immunity in protection against pathogens. It further looks at the introduction of molecular biology which encompasses basic molecular and transcription and translation. Pathogen types such as viruses and fungi, as well as the anatomical structure of the immune system and lymph node structure and function are also examined.

SCHOOL OF PHYSIOLOGY

Course Code: PHSL2003A	
Course Description: Physiology and Medical Biochemistry I	
NQF Credits: 48	NQF Level: 6

This course includes topics such as body fluids; cell and tissue biochemistry; neuromuscular function; blood, immune mechanisms, and inflammation; cardiovascular and respiratory systems; kidney function; gastro-intestinal system and nutrition; endocrinology and the central nervous system.

Course Code: PHSL2004A	
Course Description: Physiology and Medical Biochemistry I	
NQF Credits: 48	NQF Level: 6

This course includes topics such as body fluids; cell and tissue biochemistry; neuromuscular function; blood, immune mechanisms, and inflammation; cardiovascular and respiratory systems; kidney function; gastro-intestinal system and nutrition; endocrinology and the central nervous system.

Course Code: PHSL2006A	
Course Description: Applied Anatomy and Physiology II	
NQF Credits: 48	NQF Level: 6

This course provides students with a good understanding of the anatomy and physiology of major human body systems. It specifically covers the structure and function of the following systems: nervous; musculoskeletal; cardiovascular; respiratory; digestive; renal; reproductive and endocrine.

Course Code: PHSL3006A	
Course Description: Physiology III	
NQF Credits: 72	NQF Level: 7

This course focuses on the analysis of physiological data from the perspective of understanding the processes underlying abnormal human physiology. The course builds on second year knowledge and consists of various topics and a case study project. The topics include principles of experimental physiology; body fluid balance; respiratory physiology; acid-base balance, cardiovascular physiology, nutrition, central and autonomic nervous system, and physiology of pregnancy and the neonate.

Course Code: PHSL4005A	
Course Description: Experimental Physiology Honours Coursework	
NQF Credits: 70	NQF Level: 80

This course comprises a series of theoretical topics in physiology delivered in the form of lectures and tutorials. Each topic will also have an assessment component, e.g. essay or other written assignment.

Course Code: PHSL5000A	
Course Description: The Principles of Physiology and Medical Biochemistry in Relation to the Nervous System	
NQF Credits: 20	NQF Level: 8

This course consists of tutorials based on prior independent study. The tutorials emphasise the pathophysiology of central and peripheral nervous system disorders. Special emphasis is given to neurochemistry and the action of drugs used to treat nervous disorders.

Course Code: PHSL7001A	
Course Description: Physiology	
NQF Credits: 15	NQF Level: 9

This course consists of tutorials that provide postgraduate dental students with an overview of the clinical physiology relevant to the practice of dentistry.

Course Code: PHSL7004A	
Course Description: Principles of Physiology and Medical Biochemistry in relation to the Nervous System	
NQF Credits: 15	NQF Level: 9

This course comprises a series of tutorials that emphasise the pathophysiology of central and peripheral nervous system disorders. Special emphasis is given to neurochemistry and the action of drugs used to treat nervous disorders.

SCHOOL OF PUBLIC HEALTH

Course Code: COMH2000A	
Course Description: Public Health II	
NQF Credits: 48	NQF Level: 7

This course provides students with a good understanding of introductory concepts of Public Health. It covers the following modules: epidemiology; biostatistics; health systems; demography and population studies.

Course Code: COMH3003A	
Course Description: Public Health III	
NQF Credits: 72	NQF Level: 8

This course provides students with the opportunity to critically engage with theory and apply concepts from five fields. In Epidemiology, students learn how to interpret population patterns in disease incidence and disease prognosis, as well as surveillance of disease patterns over time, to better understand what causes disease and how to prevent it. Biostatistics introduces the theoretical, mathematical and statistical tools needed in public health practice, clinical and applied research to create indices for data collection and to use existing data to analyse, interpret and report results. Health Promotion requires students to apply theories and processes to conduct a multi-level assessment and to design an intervention to improve population health. Virology enables students to recognise the relevance of emerging virus infection at a local and international context and highlights the clinical and economic importance of virus infections. Clinical Microbiology and Infectious Diseases builds on application and integration of basic concepts to strengthen knowledge on the diagnosis, treatment and control of infectious diseases.

Course Code: COMH4001A	
Course Description: Health Equity and the Social Context	
NQF Credits: 20	NQF Level: 8

This module provides an overview of the historical foundations of public health as well as the current debates in public health both locally and internationally. It highlights the role that culture and society plays in determining individual and population health and wellbeing. It also provides students with basic principles and knowledge with which to understand population health in different contexts.

Course Code: COMH4003A	
Course Description: Approaches to Social and Behaviour Change	
NQF Credits: 20	NQF Level: 8

This course provides an overview of evidence-based approaches to addressing determinants of health, including advocacy, social mobilisation, edutainment and social marketing. The course will address the principles and processes for each approach, allowing the student to develop knowledge and skills to apply these approaches to current health issues in the African context e.g. approaches to address communicable diseases versus non-communicable diseases.

Course Code: COMH4004A	
Course Description: Gender-Based Analysis (GBA) in Infectious Diseases and Climate Change	
NQF Credits: 20	NQF Level: 8

The course focuses on improving design and implementation of gender-responsive research, and informing gender-responsive health policies and programmes. It introduces students to various gender analysis frameworks and demonstrates how these could be applied to the domain of climate change, vector-borne diseases and public health programming.

Course Code: COMH4005A	
Course Description: Introduction to Implementation Science	
NQF Credits: 20	NQF Level: 8

This course provides a foundation for implementation science used in public health practice by introducing students to key concepts used in implementation science. The course covers the following topics: theories and frameworks in implementation science, determinants of implementation science, implementation strategies, implementation outcomes and evaluation of implementation processes.

Course Code: COMH4006A	
Course Description: Planning Health Communication Programmes	
NQF Credits: 20	NQF Level: 8

This course introduces students to a planning cycle for running social behaviour change communication (SBCC) programmes. It develops students' capacity in applying formative research to programme planning as well as developing programme goals and objectives. It also equips students to analyse and segment intervention populations, so that interventions and programmes can be appropriately targeted, and develops students' basic programme management skills.

Course Code: COMH4007A	
Course Description: Principles of Biostatistics	
NQF Credits: 20	NQF Level: 8

This course provides a foundation for biostatistics in public health practice by introducing students to key concepts used in biostatistics. Topics include: probability, probability distributions and sampling distributions, basic laws of probability, sensitivity, specificity, positive and negative predictive values, confidence intervals for a single mean, for the difference between two means, confidence intervals for a single proportion and for the difference between two proportions, hypothesis tests for the difference between two means (independent and paired samples), hypothesis tests for the difference between two proportions, analysis of 2x2 tables (chi-square test, Fisher's exact test, measures of association), stratified analysis of 2x2 tables to deal with confounding, non-parametric tests and one-way ANOVA to compare means between more than two groups.

Course Code: COMH4008A

Course Description: Principles of Epidemiology

NQF Credits: 20 **NQF Level: 8**

This course provides a foundation for epidemiology principles used in public health practice by providing students with tools used to estimate, interpret and understand key concepts used in epidemiology. The course covers the following topics: introduction to epidemiology, epidemiology in public health, study populations and sampling, introduction to study design, measures of disease frequency, measures of association, introduction to measurement error, measures of impact and causality and causal inference.

Course Code: COMH5007A

Course Description: Measurement of Hazardous Substances

NQF Credits: 15 **NQF Level: 8**

This course differentiates the approaches required to measure hazards according to the setting and objectives of the hazard assessment (e.g. compliance with standards or evaluation of hazard control). The course provides basic information on aerosol physics, exposure variability, measurement strategy and statistical methods for data interpretation. It acquaints students with equipment to measure dusts and fibres, gases and vapours. Qualitative exposure assessment methods are also introduced.

Course Code: COMH5017A

Course Description: Health Care Financing

NQF Credits: 15 **NQF Level: 8**

This course provides candidates with an understanding of how health care is financed, the key mechanisms, sources, and flows of funds through the health system, as well as the major sources of inequity and inefficiency. It also provides an introduction to health sector planning at district level, purchasing and how to use current tools to assess health district performance. The course uses case studies from a range of different countries, including South Africa.

Course Code: COMH5021A

Course Description: Health Policy and Policy Analysis

NQF Credits: 15 **NQF Level: 8**

This course demonstrates candidates' understanding of the varied and iterative nature of policy change processes. It provides an outline of key issues in policy analysis; introduces and uses theoretical frameworks and approaches; encourages application of theoretical frameworks to routine work experiences; and introduces some key health policy debates. The course uses different country case studies to encourage the application of these ideas to everyday experiences of health systems; nurture a systems' perspective towards Health Policy and Policy Analysis; and promote critical thinking, team work and communication skills.

Course Code: COMH5023A

Course Description: Research Methods

NQF Credits: 15 **NQF Level: 8**

This course assists candidates in developing their research protocols. Candidates develop a research question, aims, objectives, methods, and data analysis plan and produce a full research protocol. The research protocol is the starting point for any postgraduate student who wants to conduct good quality research for higher degree purposes. It is a formal document that a researcher writes prior to conducting research that explains why the research should be done; and provides a detailed plan of how the research will be done.

Course Code: COMH5024A

Course Description: Health Measurement

NQF Credits: 15 **NQF Level: 8**

This course enables candidates to discuss the methods used to measure the distribution and determinants of health and disease at population level, and the application of epidemiological principles in public health. The course provides an overview of the methods used to measure health and disease, the principles of epidemiology and its application to public health. It introduces students to the methods for measuring the distribution and determinants of public health problems, an important first step in addressing health and disease at population level.

Course Code: COMH5025A	
Course Description: Health Measurement II	
NQF Credits: 15	**NQF Level: 8**

This course enables candidates to apply practically some important measurement concepts that they were taught in the core Health Measurement I course. The course introduces students to data collection methods and more advanced quantitative analysis. It enables candidates to design questionnaires. Candidates learn to optimise the validity and reliability of questionnaires; and apply their understanding of basic statistical principles to analyse a set of data collected through a population-based survey questionnaire.

Course Code: COMH5032A	
Course Description: Management in Health and Health Services	
NQF Credits: 15	**NQF Level: 8**

This course enhances candidates' understanding of key concepts and principles of management and their application to diverse public health settings. It provides participants with the knowledge and skills needed to be an effective manager and enhances critical thinking and intellectual independence by equipping participants with ideas and/or tools to manage complex change.

Course Code: COMH5034A	
Course Description: Introduction to Environmental and Occupational Health	
NQF Credits: 15	**NQF Level: 8**

This course provides a basic understanding of occupational and environment health. The course introduces the basics of health outcomes related to environmental and occupational stressors. It addresses basic anatomy and physiology as well of the principles of medical surveillance, and explores the fundamentals of exposure science and environmental and occupational exposure assessment. Specific occupational diseases, e.g. lung and skin diseases, and noise induced hearing loss, are addressed in more detail.

Course Code: COMH5061A	
Course Description: Orientation to Public Health	
NQF Credits: 0	**NQF Level: 8**

The orientation introduces new candidates to university and school norms and standards, including plagiarism, writing skills, the library and the use of Sakai (Wits-e). This course provides a space for candidates to meet one another and their instructors. This is also a time for them to complete the registration process.

Course Code: COMH5070A	
Course Description: Introduction to Health Systems	
NQF Credits: 15	**NQF Level: 8**

This course provides an introduction to the components, actors and inter-relationships of the health system, as well as core principles of systems thinking and policy analysis, as a platform for health systems analysis, action and research. The course begins by considering what a health system is and why it is important. It introduces some frameworks for thinking about health systems. It considers in some detail an example of 'whole system' improvement and linked to current international debates around Primary Health Care and Universal Health Coverage. It outlines the central role of people in health systems, their values and mind sets, and why these are important for understanding of and intervention in health systems. A number of case studies are used to illustrate and apply concepts and ideas where students are encouraged to apply the new ideas to their own contexts. Complex adaptive systems thinking is, finally, introduced as an approach for understanding and changing health systems.

Course Code: COMH5071A

Course Description: Health Systems Evaluation and Research

NQF Credits: 15 **NQF Level: 8**

This course focuses on health information systems, one of the six building blocks of a health system, and introduces evaluation of the performance of a health system; and health systems research. It fosters an understanding of what evaluation of health systems is all about and how it differs from other forms of evaluation, as well as the health systems evaluation process. It enhances understanding of a health information system (HIS) and how a HIS relates to broader health system's strengthening. It improves candidates' skills in evaluation and their ability to apply the concepts and principles when evaluating: projects and programmes in the health sector, health systems performance or health system sub-components. It also introduces candidates to health systems research and its potential contribution to improved population health and health systems performance. It illustrates application of mixed methods of research to health systems research and integrates multiple research methodologies to answer health systems research questions.

Course Code: COMH5072A

Course Description: Risk Assessment and Management

NQF Credits: 15 **NQF Level: 8**

This course deals with risk governance which includes risk assessment, management and communication. The course introduces the basic principles of risk assessment, and elaborates on regulatory, probabilistic and comparative risk assessment. The course explores the strengths and limitations of control banding in addition to some specific tools, with practical exercises.

Course Code: COMH5073A

Course Description: Physical and Biological Hazards and Occupational Safety

NQF Credits: 15 **NQF Level: 8**

This course introduces the fundamentals of occupational safety and its relationship with occupational hygiene. It provides information on occupational safety training and accident prevention programmes in South Africa, and emergency planning in the workplace. Physical hazards, such as ionising radiation, and biological hazards are covered in some detail.

Course Code: COMH5074A

Course Description: Ergonomics and Physical Agents

NQF Credits: 15 **NQF Level: 8**

This course introduces ergonomics and exposure to physical stressors. It provides information and tools that enable the identification of ergonomic risk factors in the work environment. Proper design of processes, workplaces and equipment are specified, using the concept of systems design; and the health effects of poor design are highlighted. Psychological risk factors, as well as heat stress and thermal comfort, and (non) ionising radiation, are introduced.

Course Code: COMH5075A

Course Description: Control of Workplace Hazards

NQF Credits: 15 **NQF Level: 8**

This course introduces principles of risk and exposure controls. Different types of controls are introduced according to the hierarchy of controls; practical examples are provided. Emphasis is on control of chemical exposures and personal protective equipment (programmes). By the end of this course, candidates should be able to justify the selection of control options with regard to efficacy, efficiency and effectiveness after implementation.

Course Code: COMH5076A

Course Description: Occupational Health Part I

NQF Credits: 60 **NQF Level: 8**

The course introduces logical approaches for dealing with any aspect of occupational health. Candidates begin to integrate learnt material to diagnose and manage work-related diseases or disabilities or threats to health and well-being of individual employees. This is done through an investigation of occupational health risks in a workplace and development of an efficient and effective hazard control and management programme that informs medical surveillance for prevention of occupational diseases.

Course Code: COMH5079A

Course Description: Occupational Health Part II

NQF Credits: 60	NQF Level: 8

The course introduces logical approaches for dealing with any aspect of occupational health. Candidates begin to integrate learnt material to diagnose and manage work-related diseases or disabilities or threats to health and well-being of individual employees. This is done through an investigation of occupational health risks in a workplace and development of an efficient and effective hazard control and management programme that informs medical surveillance for prevention of occupational diseases.

Course Code: COMH5150A

Course Description: Applying Social & Behaviour Change Theory to Practice

NQF Credits: 15	NQF Level: 8

This course enables candidates to evaluate the evidence for theoretical models and frameworks that explain behaviours at different levels and to learn how to apply theory to formative research. Skills in selecting and applying a theory of change are also critical to the design, implementation and evaluation of programmes addressing contemporary health issues. The course introduces a range of behavioural and social theories and models that can be applied at individual, interpersonal, community, and societal levels to promote health. Examples of these theories include: the trans-theoretical model, health belief model, social cognitive theory, social networks, diffusion of innovations, and the social ecological model.

Course Code: COMH5151A

Course Description: Communication, Media and Society

NQF Credits: 15	NQF Level: 8

This course provides candidates with a general insight into the key theories and methodologies within media and communication studies. Candidates are introduced to relevant communication theory and media approaches as a vehicle or channel to facilitate social and behaviour change communication addressing health and development issues, such as HIV/AIDS and sexual and reproductive health.

The place, form, and context of the media landscape in selected countries in the African region will be explored, with particular emphasis on the implications of those issues for health and development communication practice.

Course Code: COMH5152A

Course Description: Health and Society

NQF Credits: 15	NQF Level: 8

This course aims to enable candidates to develop a critical understanding of the complex interaction of social determinants and context on population health and wellbeing. Candidates examine a range of social determinants including gender, income inequality, rural/urban, health systems, social exclusion and migration. The course explores current socio-political issues in the sub-Saharan Africa region and how they impact on health.

Course Code: COMH5153A

Course Description: Approaches to Population Health

NQF Credits: 15	NQF Level: 8

This course aims to introduce candidates to different evidence-based approaches both within and outside the formal health system in population health and disease. It provides an overview of approaches to population health at different levels such as legislation and policy, health system and services, as well as the community and individual levels. The course emphasises the importance of collaboration and co-ordination across all sectors in addressing health and disease at a population level.

Course Code: COMH5154A

Course Description: Designing Effective Public Health Programmes

NQF Credits: 15 **NQF Level: 8**

This course aims to enhance knowledge and skills in programme planning, priority setting in health, conducting a situation analysis and monitoring and evaluation. Candidates critically analyse a programme from its design, through implementation, monitoring and evaluation. Candidates enhance their skills in writing strategic and programme objectives and indicators to monitor the implementation of programmes. The course addresses different programme evaluation designs. Candidates are introduced to economic evaluation.

Course Code: COMH5156A

Course Description: Planning and Implementing Social and Behaviour Change Communication

NQF Credits: 15 **NQF Level: 8**

This course introduces candidates to essential frameworks and tools to enhance both the planning and implementation of Social and Behaviour Change Communication (SBCC). The course introduces candidates to the historical development of the field of SBCC. The course emphasises the importance of situational analysis and prioritisation in planning, with many sessions dedicated to reinforcing these skills. Adult learning pedagogies are used to explore values related to community participation, inter-sectoral action, and priority setting in the context of communication.

Course Code: COMH5157A

Course Description: Social and Behaviour Change Communication Approaches

NQF Credits: 15 **NQF Level: 8**

This course provides a critical overview of the evidence-base for approaches that aim to influence the social and behavioural determinants of health. These approaches include advocacy, social mobilisation, edutainment, social marketing as well as various interpersonal techniques, e.g. peer counselling and motivational interviewing. The course addresses the principles and processes for each approach. These approaches are applied to current health and development issues and the empirical evidence base is explored in context.

Course Code: COMH5158A

Course Description: Integration of Qualitative and Quantitative Research Methods

NQF Credits: 15 **NQF Level: 8**

This course builds skills to develop qualitative research questions, collect and analyse qualitative data. Candidates are introduced to different methodological approaches including mixed methods, phenomenology, case studies, ethnography, grounded theory and narratives. The course provides a theoretical and practical experience of some qualitative methods including observation, interviewing and focus groups. Candidates develop a codebook and write memos. Candidates are exposed to descriptive and comparative analysis as well as conceptualising and theorising from their data.

Course Code: COMH5159A

Course Description: Research, Monitoring and Evaluation

NQF Credits: 15 **NQF Level: 8**

This course focuses on research, monitoring and evaluation as applied specifically to social and behaviour change communication. (SBCC) It develops candidates' capacity to undertake formative research. The course develops candidates' practical skills in designing and conducting formative research, which is used inform the development of interventions, messages and programmes. The course also enables candidates to differentiate between and critique different evaluation designs and introduces key concepts for effective monitoring and evaluation of SBCC interventions and programmes.

Course Code: COMH5160A

Course Description: Health Systems Organisation and Human Resources

NQF Credits: 15 **NQF Level: 8**

This course focuses on two of the health system building blocks: service delivery and the health workforce. The first component of the course covers contemporary approaches to the organisation of health services including debates about decentralisation, horizontal vs vertical approaches, primary health care, the role of the private sector, quality improvement, and accountability mechanisms. The second component of the course introduces the student to important topics in human resources for health (HRH) including health workforce planning, strategies for improving the motivation and performance of health professionals, HRH information systems, and the governance of HRH.

Course Code: COMH5162A

Course Description: Fundamentals of Risk Assessment

NQF Credits: 15	NQF Level: 8

This course introduces the risk-based approaches of controlling Occupational Hygiene (OH) stressors. It demonstrates how an OH risk assessment follows a logical progression of steps to arrive at a defensible assessment of the health risks in a particular work situation. Topics include: fundamentals of risk assessment; regulatory risk assessment & probabilistic risk assessment; introduction to comparative risk assessment & alternatives assessment; life cycle (inventory) and assessment; risk assessment/ prioritisation tools; exposure-induced risk and health status; exposure-induced risk and vulnerable groups.

Course Code: COMH5163A

Course Description: Exposure Control I

NQF Credits: 15	NQF Level: 8

This course introduces the basic principles behind controlling a workplace hazard and the different methods of selection of controls. Topics include: fundamentals of intervention/implementation science; formative research; stakeholder communication; cost-benefits/cost effectiveness; health economics; multi-criteria decision analysis; and resilience interventions.

Course Code: COMH5164A

Course Description: Exposure Science I

NQF Credits: 15	NQF Level: 8

This course introduces the fundamentals of exposure science, with emphasis on the similarities of the underlying mechanisms and processes from release at the source to emission at the receptor in environmental, consumer and workplace exposure. Topics include: introduction to exposure science and exposure ontology; characteristics of workplace, residential, environmental and consumer exposure; relationship between outdoor-indoor exposure; aggregated and cumulative exposure; inhalation models from exposure to dose, and basic kinetics (absorption, distribution, metabolism, excretion).

Course Code: COMH5165A

Course Description: Risk & Safety Management: Systems and Programmes

NQF Credits: 15	NQF Level: 8

This course introduces the systems and programmes of occupational risk and safety management and their relationship with occupational hygiene. Topics include: risk and safety management principles and theoretical considerations; risk management and behaviour aspects/risk perception; safety management systems; risk management systems; hazardous waste management; risk management and health surveillance; development of hazard control program (hearing conservation programme, respiratory protective equipment programme etc.) in occupational settings; and ISO-standards (risk and safety management).

Course Code: COMH5166A

Course Description: Exposure Induced Health Outcome

NQF Credits: 15	NQF Level: 8

This course covers the basic principles of environmental and occupational exposures and the associated potential health outcomes. It also focuses on the interaction between stressors and receptor and potential health outcomes which are key to understanding health risk assessment and risk management methods and systems.

Topics include the basic principles of sound/ acoustics and hearing impairment; vibration and hand-arm vibration syndrome (HAVS); heat and cold strain, thermal stress and thermal comfort; non-ionising radiation and health effects; ionising radiation and health effects; ergonomics and musculoskeletal disorders; cognitive ergonomics and mental and behavioural disorders; biological hazards and (communicable) diseases (water sanitation included).

Course Code: COMH7007A

Course Description: Measurement of Hazardous Substances

NQF Credits: 15	**NQF Level: 9**

This course differentiates approaches required to measure hazards according to the setting and objectives of the hazard assessment (e.g. compliance with standards or evaluation of hazard control). The course provides basic information on aerosol physics, exposure variability, measurement strategy and statistical methods for data interpretation. It acquaints students with equipment to measure dusts and fibres, gases and vapours. Qualitative exposure assessment methods are also introduced.

Course Code: COMH7017A

Course Description: Health Care Financing

NQF Credits: 15	**NQF Level: 9**

This course aims to provide candidates with an understanding of how health care is financed, the key mechanisms, sources, and flows of funds through the health system, as well as the major sources of inequity and inefficiency. It will also provide an introduction to health sector planning at district level, purchasing and how to use current tools to assess health district performance. The course will use case studies from a range of different countries, including South Africa.

Course Code: COMH7041A

Course Description: Health Policy and Policy Analysis

NQF Credits: 15	**NQF Level: 9**

This course provides analysis of the key issues in policy change processes. It provides an outline of key issues in policy analysis; introduces and uses theoretical frameworks and approaches; encourages application of theoretical frameworks to routine work experiences; and introduces some key health policy debates. The course uses different country case studies to encourage the application of these ideas to everyday experiences of health systems; nurture a systems' perspective towards Health Policy and Policy Analysis; and promote critical thinking, team work and communication skills.

Course Code: COMH7046A

Course Description: Research Methods

NQF Credits: 15	**NQF Level: 9**

This course assists candidates in developing their research protocols. Candidates develop a research question, aims, objectives, methods, and data analysis plan and produce a full research protocol.

Course Code: COMH7047A

Course Description: Health Measurement I

NQF Credits: 15	**NQF Level: 9**

This course enables candidates to discuss the methods used to measure the distribution and determinants of health and disease at population level, and the application of epidemiological principles in public health. The course provides an overview of the methods used to measure health and disease, the principles of epidemiology and its application to public health. It introduces students to the methods for measuring the distribution and determinants of public health problems, an important first step in addressing health and disease at population level.

Course Code: COMH7048A

Course Description: Health Measurement II

NQF Credits: 15	**NQF Level: 9**

This course enables candidates to apply practically some important measurement concepts that they were taught in the core Health Measurement I course. The course introduces students to data collection methods and more advanced quantitative analysis. It enables candidates to design questionnaires. Candidates learn to optimise the validity and reliability of questionnaires; and apply their understanding of basic statistical principles to analyse a set of data collected through a population-based survey questionnaire.

Course Code: COMH7060A	
Course Description: Research Protocol Development	
NQF Credits: 15	**NQF Level: 9**

The aim of the course is to develop a draft proposal for the Master's project. Thus, students conceptualise appropriate research questions and define specific objectives for the projects they hope to complete for their projects. Students must consider the appropriate study design, sampling strategies, measurement tools and approaches to analysis for their research project. Students are encouraged to reflect in detail on all aspects of their project, including logistics and resources. Proposal writing for raising research funds will be a focus, and ethical requirements for research projects will be highlighted. The course will combine lectures, individual assignments and group work where students present their ideas and receive feedback from colleagues.

Course Code: COMH7061A	
Course Description: Applied Field Epidemiology	
NQF Credits: 15	**NQF Level: 9**

Through a week-long attachment to the Agincourt field site, this course introduces students to the practical aspects of community-based field research, including establishing a field research site, challenges of field operations, and quality control measures. Students are exposed to a range of study methods. A focus on health and demographic surveillance includes study design, quality control, verbal autopsy (including culture and views of illness), community relationships, ethical issues particular to longitudinal research, and the applications of DSS to other field research.

Course Code: COMH7062A	
Course Description: Biostatistics for Health Researchers I	
NQF Credits: 15	**NQF Level: 9**

This course teaches students the difference between descriptive and inferential statistics. Descriptive statistical methods are discussed in detail (differentiate between different types of data, summarise and display data in frequency tables, graphs and diagrams, estimate measures of central tendency and spread) and applied using computer based exercises. Concepts of sampling will be introduced (explain sampling variation and sampling error and issues of sampling variation and standard error). Candidates will then move into inferential statistics. Students will learn about procedures of hypothesis testing and Type I and II errors. Methods for comparing sample proportions and means will be explained. Students will be able to calculate and interpret confidence intervals for means, proportions and ratio measures.

Course Code: COMH7063A	
Course Description: Biostatistics for Health Researchers II	
NQF Credits: 15	**NQF Level: 9**

This course will describe simple and multiple, logistic, conditional, ordinal and multinomial regression models. The theory and application of multiple regressions will be presented as a way of controlling for confounding. It discusses the various regression methods and candidates will gain skills in building regression models for the analysis of multiple variables. Candidates will use Stata software package to complete assignments during this course.

Course Code: COMH7066A	
Course Description: Biostatistics for Health Researchers III	
NQF Credits: 15	**NQF Level: 9**

In this course the life table is introduced as a means to both summarise and understand duration-specific increment-decrement processes, and to control for exposure. Following from the life table, the general Hazard Function and Survival Curve are defined and discussed. In addition, the suite of graphical and statistical techniques associated with the "Kaplan Meier" survival curve are introduced and demonstrated Candidates will have a firm conceptual grasp of time and how it is measured and manipulated. Additional to the above Poisson regression is presented as a powerful and efficient means through which to calculate rates controlling for exposure and any number of other covariates.

Course Code: COMH7067A

Course Description: Introduction to Demographic Methods

NQF Credits: 15 **NQF Level: 9**

Demography is a quantitative discipline and this course will concentrate on the sources of demographic data and basic techniques used in demographic analysis. These methods include basic fertility, mortality and migration measures, and basics of population projections. The objectives are to furnish students with the basic techniques of demography, to enable students to apply methods in fertility and mortality research questions and to expose students to methodological aspects of migration.

Course Code: COMH7070A

Course Description: Surveillance

NQF Credits: 15 **NQF Level: 9**

This course introduces candidates to the principles and objectives of surveillance as a tool for public health. This course provides examples of surveillance systems for communicable and non-communicable diseases and how they further our understanding of certain diseases. The course gives students insight into the practical aspects involved in setting up and maintaining a surveillance system and enables students to evaluate surveillance systems. In addition, the course will instruct students on how to conduct an outbreak investigation, re-enforcing the different study designs that are used.

Course Code: COMH7083A

Course Description: Integration of Qualitative and Quantitative Research Methods

NQF Credits: 15 **NQF Level: 9**

This course builds skills to develop qualitative research questions and collect and analyse qualitative data. Candidates are introduced to different methodological approaches including: mixed methods, phenomenology, case studies, ethnography, grounded theory and narratives. It provides both a theoretical and practical experience of some qualitative methods including observation, interviewing and focus groups. Candidates develop a codebook and write memos. Candidates are exposed to descriptive and comparative analysis as well as conceptualising and theorising from their data.

Course Code: COMH7100A

Course Description: Orientation to Public Health

NQF Credits: 0 **NQF Level: 9**

This course introduces new candidates to university and school norms and standards, including plagiarism, writing skills, the library and the use of Sakai (Wits-e). This course provides a space for candidates to meet one another and their instructors. This is also a time for them to complete the registration process.

Course Code: COMH7101A

Course Description: Management in Health and Health Services

NQF Credits: 15 **NQF Level: 9**

This course aims to enhance candidates' understanding of key concepts and principles of management and their application to diverse public health settings. It provides participants with the knowledge and skills needed to be an effective manager and enhances critical thinking and intellectual independence by equipping participants with ideas and/or tools to manage complex change.

Course Code: COMH7104A

Course Description: Introduction to Environmental and Occupational Health

NQF Credits: 15 **NQF Level: 9**

This course provides a basic understanding of occupational and environment health. The course introduces the basics of health outcomes related to environmental and occupational stressors. Basic anatomy and physiology as well of the principles of medical surveillance are addressed, and the fundamentals of exposure science and environmental and occupational exposure assessment are explored. Specific occupational diseases, e.g. lung and skin diseases, and noise induced hearing loss, are addressed in more detail.

Course Code: COMH7114A

Course Description: Clinical Epidemiology

NQF Credits: 15	NQF Level: 9

This course enables participants to become better researchers and clinicians by increasing their skills in the evaluation of the medical literature. Evidence-based medicine (EBM) has been defined as the conscientious, explicit, and judicious application of the current best evidence in making decisions about the care of individual patients. In order to practice EBM, clinicians need to know how to formulate relevant questions, how to efficiently search the medical literature, and how to evaluate the evidence for validity and applicability to the patient.

Course Code: COMH7200A

Course Description: Epidemiology for Health Researchers I

NQF Credits: 15	NQF Level: 9

This is an introductory course in epidemiology. It provides the tools necessary to interpret and understand common concepts used in the field of health measurement. An initial overview of the development of modern epidemiology is presented and aspects of causal inference are discussed. The importance of accurate and appropriate measurement in epidemiological research is highlighted. Different measures of disease frequency, effect and impact are discussed in detail, and students will gain competence in the calculation and interpretation of these measures. Other topics to be covered in this course are measurement errors, study populations and sampling.

Course Code: COMH7201A

Course Description: Epidemiology for Health Researchers II

NQF Credits: 15	NQF Level: 9

This course provides students with an in-depth understanding of the design, analysis and interpretation of different epidemiological studies. Study designs covered include: ecological, cross-sectional, case-control, cohort and intervention studies among others. The design of intervention studies for the evaluation of new therapies for the treatment and prevention of diseases of major public health importance such as HIV/AIDS and TB are discussed. The design features of individual and group level intervention studies are covered, as are the specific planning and logistical aspects of field trials. The major strengths and limitations of each design are highlighted, and the most appropriate designs for particular questions are addressed. A key component of this course is the critical review of published literature from studies that follow each of the major designs. Articles presenting findings of African based research are selected where appropriate. Systematic review and meta-analysis are also covered.

Course Code: COMH7202A

Course Description: Epidemiology for Health Researchers III

NQF Credits: 15	NQF Level: 9

This is an advanced course in epidemiology in which candidates engage with advanced theoretical concepts and practical applications of concepts taught in Epidemiology I and Epidemiology II, with specific focus on bias, confounding and interaction in epidemiological studies. Students will learn how to minimise error during the design, conduct, analysis and interpretation stages of studies. They are also expected to learn advanced concepts in disease causality. Teaching methods include a combination of lectures and practical exercises.

Course Code: COMH7207A

Course Description: Statistical Issues in Randomised Controlled Trials

NQF Credits: 15 **NQF Level: 9**

This course discusses the statistical issues required to execute a clinical trial and to analyse data arising from such trials. The demand for properly conducted clinical trials, providing a reliable and objective assessment of various treatments or drugs on patients, has increased over the years. Statistics has become an integral part of the design, data management and analysis of data arising from clinical trials. The proper use of statistics at all these stages is important for results to be acceptable to the wider community. This course is a combination of lectures and hands-on practical sessions.

Course Code: COMH7208A

Course Description: Non-communicable Disease Epidemiology

NQF Credits: 15 **NQF Level: 9**

This course provides an overview of the etiology, epidemiology, risk factors and public health importance of selected chronic diseases in developing countries. It addresses measurement issues in chronic disease epidemiology with respect to both exposure assessment and measurement of outcome along with practical considerations involved in conducting chronic disease epidemiology research. Major policy initiatives addressing globally the prevention and control of chronic diseases are presented.

Course Code: COMH7212A

Course Description: Introduction to Health Systems

NQF Credits: 15 **NQF Level: 9**

This course aims to provide an introduction to the components, actors and inter-relationships of the health system, as well as core principles of systems thinking and policy analysis, as a platform for health systems analysis, action and research. The course begins by considering what a health system is and why it is important. It introduces some frameworks for thinking about health systems. It considers in some detail an example of 'whole system' improvement - and linked to current international debates around Primary Health Care and Universal Health Coverage. It outlines the central role of people in health systems, their values and mind sets, and why these are important for understanding of and intervention in health systems. A number of case studies are used to illustrate and apply concepts and ideas where students are encouraged to apply the new ideas to their own contexts. Complex adaptive systems thinking is, finally, introduced as an approach for understanding and changing health systems.

Course Code: COMH7213A

Course Description: Health Systems Evaluation and Research

NQF Credits: 15 **NQF Level: 9**

The course focuses on health information systems, one of the six building blocks of a health system, and introduces evaluation of the performance of a health system; and health systems research. It aims to foster understanding of what evaluation of health systems is all about and how it differs from other forms of evaluation, as well as the health systems evaluation process. It enhances participants' understanding of a health information system (HIS) and how a HIS relates to broader health system's strengthening; improve participants' skills in evaluation and their ability to apply the concepts and principles when evaluating: projects and programmes in the health sector, health systems performance or health system sub-components; as well as introduce participants to health systems research and its potential contribution to improved population health and health systems performance. It also illustrates application of mixed methods of research to health systems research and integrates multiple research methodologies to answer health systems research questions.

Course Code: COMH7214A

Course Description: Risk Assessment and Management

NQF Credits: 15 **NQF Level: 9**

The aim of the course is to become acquainted with risk governance which includes risk assessment, -management and Communication. The course introduces the basic principles of risk assessment, and elaborates on regulatory, probabilistic and comparative risk assessment. The strengths and limitations of control banding, in general, are explored, in addition to some specific tools, with practical exercises.

Course Code: COMH7215A	
Course Description: Physical and Biological Hazards and Occupational Safety	
NQF Credits: 15	NQF Level: 9

The aim of this course is to introduce the fundamentals of occupational safety and its relationship with occupational hygiene. It provides information on occupational safety training and accident prevention programmes in South Africa, and emergency planning in the workplace. Physical hazards - such as ionising radiation - and biological hazards are covered in some detail.

Course Code: COMH7216A	
Course Description: Ergonomics and Physical Agents	
NQF Credits: 15	NQF Level: 9

This course introduces ergonomics and exposure to physical stressors. It provides information and tools that enable the identification of ergonomic risk factors in the work environment. Proper design of processes, workplaces and equipment are specified, using the concept of systems design; the health effects of poor design are highlighted. Psychological risk factors, as well as heat stress and thermal comfort, and (non) ionising radiation, are introduced.

Course Code: COMH7217A	
Course Description: Control of Workplace Hazards	
NQF Credits: 15	NQF Level: 9

This course introduces principles of risk and exposure controls. Different types of controls are introduced according to the hierarchy of controls; practical examples are provided. Emphasis is on control of chemical exposures and personal protective equipment (programmes). By the end of this course, students should be able to justify the selection of control options with regard to efficacy, efficiency and effectiveness after implementation.

Course Code: COMH7218A	
Course Description: Communicable Disease Epidemiology	
NQF Credits: 15	NQF Level: 9

This course focuses on the principles and practices of infectious disease epidemiology within an African context. Candidates gain a sound understanding of the principles of infectious disease epidemiology, a thorough knowledge of the epidemiology of key infectious diseases in Africa and an will be equipped with an approach to addressing infectious disease prevention and control. Topics include: measures of infectiousness, reproductive rates, herd immunity, vaccine efficacy, vaccine coverage, attack rates; epidemiology of HIV/AIDS, TB, malaria, diarrheal diseases and respiratory tract diseases; current issues in infectious diseases epidemiology and eradication of infectious diseases.

Course Code: COMH7220A	
Course Description: Clinical Trials	
NQF Credits: 15	NQF Level: 9

This course introduces candidates to the area of clinical trials focusing on the conduct of clinical trials in developing countries where resources are limited. The main issues in the design, implementation and interpretation of clinical trials are introduced to candidates. It outlines the principles of comparative clinical trials in investigating safety, efficacy and effectiveness of treatments; highlights strengths and weaknesses of clinical trial design in comparison to other study designs and introduces the key elements and steps in clinical trial implementation, including calculation of sample sizes to provide adequate power to the trial. It describes the key characteristics of clinical trials, which include ethical and methodological considerations, principles of clinical trial conduct, clinical trial organisation and monitoring, data collection, data processing (data management), quality assurance and quality control, and trial reporting., The roles of the Data Safety and Monitoring Committee (DSMB) and the Community Advisory Board (CAB), as well as Good Clinical Practice (GCP), are also highlighted.

Course Code: COMH7221A

Course Description: Health and Society

NQF Credits: 15 **NQF Level: 9**

This course aims to enable candidates to develop a critical understanding of the complex interaction of social determinants and context on population health and wellbeing. Candidates examine a range of social determinants including gender, income inequality, rural/urban, health systems, social exclusion and migration. The course explores current socio-political issues in the sub-Saharan Africa region and how they impact on health.

Course Code: COMH7222A

Course Description: Approaches to Population Health

NQF Credits: 15 **NQF Level: 9**

This course aims to introduce candidates to different evidence-based approaches both within and outside the formal health system in population health and disease. It provides an overview of approaches to population health at different levels such as legislation and policy, health system and services, as well as the community and individual levels. The course emphasises the importance of collaboration and co-ordination across all sectors in addressing health and disease at a population level.

Course Code: COMH7223A

Course Description: Designing Effective Public Health Programs

NQF Credits: 15 **NQF Level: 9**

This course aims to enhance knowledge and skills in programme planning, priority setting in health, conducting a situation analysis and monitoring and evaluation. Candidates critically analyse a programme from its design, through implementation, monitoring and evaluation. Candidates enhance their skills in writing strategic and programme objectives and indicators to monitor the implementation of programmes. The course addresses different programme evaluation designs. Candidates are introduced to economic evaluation.

Course Code: COMH7225A

Course Description: Applying Social and Behaviour Change Theory to Practice

NQF Credits: 15 **NQF Level: 9**

This course aims to build candidate capacity to evaluate the evidence for theoretical models and frameworks that explain behaviours at different levels and to learn how to apply theory to formative research. Skills in selecting and applying a theory of change are also critical to the design, implementation and evaluation of programmes addressing contemporary health issues. The course introduces a range of behavioural and social theories and models that can be applied at individual, interpersonal, community, and societal levels to promote health. Examples of these theories include: the trans-theoretical model, health belief model, social cognitive theory, social networks, diffusion of innovations, and the social ecological model.

Course Code: COMH7226A

Course Description: Planning and Implementing Social and Behaviour Change Communication

NQF Credits: 15 **NQF Level: 9**

This course introduces candidates to essential frameworks and tools to enhance both the planning and implementation of Social and Behaviour Change Communication (SBCC). The course introduces candidates to the historical development of the field of SBCC. The course emphasises the importance of situational analysis and prioritisation in planning, with many sessions dedicated to reinforcing these skills. Adult learning pedagogies are used to explore values related to community participation, inter-sectoral action, and priority setting in the context of communication.

Course Code: COMH7227A

Course Description: Research, Monitoring and Evaluation

NQF Credits: 15 **NQF Level: 9**

This course focuses on research, monitoring and evaluation as applied specifically to social and behaviour change communication. It aims to develop candidate's capacity to undertake formative research used to. This course aims to develop candidates' practical skills in designing and conducting formative research, which is used inform the development of interventions, messages and programmes. The course also enables candidates to differentiate between and critique different evaluation designs and introduces key concepts for effective monitoring and evaluation of SBCC interventions and programmes.

Course Code: COMH7228A

Course Description: Social and Behaviour Change Communication Approaches

NQF Credits: 15	NQF Level: 9

This course equips the candidate with a critical overview of the evidence-base for approaches that aim to influence the social and behavioural determinants of health. These approaches include advocacy, social mobilisation, edutainment, social marketing as well as various interpersonal techniques, e.g. peer counselling and motivational interviewing. The course addresses the principles and processes for each approach. These approaches are applied to current health and development issues and the empirical evidence base is explored in context.

Course Code: COMH7229A

Course Description: Communication, Media and Society

NQF Credits: 15	NQF Level: 9

This course aims to provide the masters candidate with a general insight into the key theories and methodologies within media and communication studies. Candidates will be introduced to relevant communication theory and media approaches as a vehicle or channel to facilitate social and behaviour change communication addressing health and development issues, such as HIV/AIDS and sexual and reproductive health. The place, form, and context of the media landscape in selected countries in the African region will be explored, with particular emphasis on the implications of those issues for health and development communication practice.

Course Code: COMH7236A

Course Description: Health Systems Organisation and Human Resources

NQF Credits: 15	NQF Level: 9

This course focuses on two of the health system building blocks: service delivery and the health workforce. The first half of the course covers contemporary approaches to the organisation of health services including debates about decentralisation, horizontal vs vertical approaches, primary health care, the role of the private sector, quality improvement, and accountability mechanisms. The second half of the course introduces the student to important topics in human resources for health (HRH) including health workforce planning, strategies for improving the motivation and performance of health professionals, HRH information systems, and the governance of HRH.

Course Code: COMH7238A

Course Description: Data Processing, Distribution and Archiving I

NQF Credits: 15	NQF Level: 9

This course provides candidates with skills in the extraction reprocessing and storage of datasets. It introduces the candidate to the Extraction, Transform and Load (ETL) process and data storage for both electronic and paper records. The course gives insight into industry standards in data documentation and data archival formats. Topics include Data extraction, transformation, loading (ETL) process, Analytical dataset production cycle, Data documentation: versioning, dataset citation, data fingerprinting, Using Data Documentation Initiative standards, Archival data formats, Data repositories, Paper and electronic data archiving.

Course Code: COMH7245A

Course Description: Introduction to Data Management Systems, Structures and Models

NQF Credits: 15	NQF Level: 9

This course introduces candidates to more intermediate Structured Query Language (SQL) and develops on what they were introduced to in Principles and Operations of the Relational Databases. It also introduces candidates to the concepts surrounding Demographic Surveillance Systems (DSS), DSS database design and structure as well as the basic relational model for DSS. Students are introduced to a sample DSS database (Agincourt 1 in 10) and are taught how to run basic queries to calculate basic demographic rates in various practical hands on sessions. At the conclusion of this course candidates will be able to understand and design a simple DSS longitudinal database as well as query and perform basic analyses on a standard relational DSS database.

Course Code: COMH7246A

Course Description: Applied Spatial Statistics for Health Researchers

NQF Credits: 15 **NQF Level: 9**

This course provides candidates with the opportunity to use Spatial statistics for analysing spatial distributions, patterns and relationships of disease spread with other factors. The spatial statistics will mainly be used in relation to diseases. Spatial statistics are unique in that they were developed specifically for use with geographic (GIS) data.

Course Code: COMH7247A

Course Description: Bayesian Methods in Health Research

NQF Credits: 15 **NQF Level: 9**

Bayesian methods and elective in the field of Biostatistics offers students a wider choice of topics for professional specialisation and ability to strengthen the core courses. Bayesian methods, where prior knowledge is taken into account in the course of statistical modelling, have found widespread application in recent years. Bayesian methods aid the solution of complex statistical problems that were previously considered unattainable.

Course Code: COMH7248A

Course Description: Generalised Linear Models in Health Research

NQF Credits: 15 **NQF Level: 9**

This is a core course for the field of Biostatistics to offer students a wider choice of topics for professional specialisation and strengthen the core Generalised Linear Models concepts. One main focus of medical studies is relating a response variable to one or several explanatory variables. A traditional way of accomplishing this is through a multiple linear regression model. However, model assumptions for linear regression may be questionable because data might not be linearly related or normally distributed. For example, linear regression does not work when outcome data are counts or binary. Further, data may also be correlated when measurements are collected on the same individual. This course therefore provides an extension of the linear modelling framework to allow non-linear response variables, hence, a generalisation of regression methods.

Course Code: COMH7249A

Course Description: Genetic Epidemiology and Statistical Genetics

NQF Credits: 15 **NQF Level: 9**

Genetic epidemiology is the study of the role of genetic factors in determining health and disease in families and in populations, and the interplay of such genetic factors with environmental factors. In the light of increasing global and national focus on molecular epidemiology and statistical genetics, the aim of the module is therefore to illustrate important issues in human genetics where either mathematical or statistical methods are used to analyse genetic data.

Course Code: COMH7250A

Course Description: Introduction to Statistical Theory in Health Research

NQF Credits: 15 **NQF Level: 9**

Introduction to Statistical Theory lays a sound foundation for all students studying biostatistics and to provide an understanding of principles of probability theory and a thorough mathematical understanding of distribution theory and statistical inference. This is a pre-requisite to advanced statistics courses in the Biostatistics Masters curriculum.

Course Code: COMH7251A

Course Description: Modern Biostatistical Methods

NQF Credits: 7 **NQF Level: 9**

This course will enable students to appreciate new advanced methods being developed in biostatistics as solutions to current problems having statistical limitations and challenges. These will be presented as a series of seminars and group discussions during the period of coursework.

Course Code: COMH7252A

Course Description: Statistical Consulting in Health Research

NQF Credits: 8 **NQF Level: 9**

This course will enable students to apply various advanced data analysis techniques based on various study designs to practical problems. They will also learn how to employ a range of advanced statistical methods and to make statistical presentations to non-statistical audiences and face to face consultations.

Course Code: COMH7253A

Course Description: Survey Methods in Health Research

NQF Credits: 15 **NQF Level: 9**

This core course aims to give the learner a solid foundation in principles of sampling, sampling methods and survey design, and generation and use of official statistics. There is a tremendous increase in the number of social, demographic and health surveys that seek to investigate determinants of various health outcomes. It is therefore important for statisticians and researchers to have an understanding of different survey methodologies and principles.

Course Code: COMH7255A

Course Description: Data Management for Clinical Research Studies

NQF Credits: 15 **NQF Level: 9**

This course introduces participants to the principles and skills required to collect and manage research data in a public health setting. We will evaluate different data collection tools and methods for various types of research studies. A major shortcoming in many countries is the absence of accurate data. The absence of accurate data makes it difficult to make evidence-based policy and planning decisions, monitor trends as well as monitor and evaluate interventions. The course introduces the concepts of proper database design and use of database management systems for public studies such as clinical trials in order to have consistent, secure, and efficient data collection.

Course Code: COMH7256A

Course Description: Principles and Operations of Relational Databases

NQF Credits: 15 **NQF Level: 9**

This course introduces the concept of Database design and use of database management systems to model and implement public health information systems. It includes extensive coverage of the relational model, relational algebra, and SQL, the standard language for creating, querying, and modifying relational and object-relational databases. It also covers XML data including DTDs and XML Schema for validation, and the query and transformation languages XPath, XQuery, and XSLT. The course includes database design in UML, and relational design principles based on dependencies and normal forms. The second component of this course places more emphasis on using these advance database programming techniques in the maintenance of large health-related data systems. The course equips the student with the skills of creating, maintaining, manipulating, updating, and retrieving information/data for analysis by statistical packages. Other topics covered in the second part of the course include transactions, authorisation, integrity constraints and triggers, Database security, user authentication and recursion in SQL.

Course Code: COMH7257A

Course Description: Health and Demography Surveillance Database Systems

NQF Credits: 15 **NQF Level: 9**

This course builds on the concepts and techniques taught in the Principles and Operations of Relational Databases course. The course emphasis the planning, architecture, design, and implementation of massive-scale databases related to public health surveillance information systems. The appropriate design and management of such information systems is particularly useful for Health and Demography Surveillance Centres or Sites in developing countries. The course focuses on foundational concepts of distributed database theory including design and architecture, security, integrity, query processing and optimisation, transaction management, concurrency control, and fault tolerance. These concepts are then applied to solve the complex interrelationships of local, national and regional independent but interrelated surveillance information systems and the constraints that legal restrictions create in the transfer and use of surveillance datasets.

Course Code: COMH7258A

Course Description: Programming for Research Data Management I

NQF Credits: 15	**NQF Level: 9**

This course introduces the theory, principles and practice of programming for the purpose of developing applications to capture, store and manage data for public health research studies. Capturing and exploiting the inherent information contained within large research datasets poses a lot of statistical challenges. This course introduces the student to the fundamental programming techniques and algorithms needed to properly capture, store and manage these datasets. The course will focus on planning and organising programs for information extraction from research data. Python, an open-source scripting language that allows rapid application development of both large and small software systems has been selected for this course. It is object-oriented by design and provides an excellent platform for learning the basics of language programming. The course will introduce the student to the features of Python that provides accessibility to databases, system administration and other useful services.

Course Code: COMH7260A

Course Description: Implementation Science I

NQF Credits: 15	**NQF Level: 9**

This course has been developed to address the gap in implementation of proven interventions in the real world. There is abundant evidence of efficacy of interventions that have been carried out in Sub-Saharan Africa but these working interventions have not been backed up with knowledge and skills on how to deliver those interventions effectively in a real setting. Sub-Saharan Africa faces diverse challenges, including limited resources, poor socio-economic status and a broken health system. The course will provide skills in how these proven and affordable interventions can be implemented to improve health outcomes in the region. This requires tools, approaches that take into consideration evidence to enhance equity and efficiency in delivery of the services. Therefore the course will introduce participants to knowledge and skills to enable them to plan and carry out implementation research aimed at improving the implementation and management and control of disease and or conditions and other health programs.

Course Code: COMH7262A

Course Description: Translating Conceptual Models to Statistical Models

NQF Credits: 15	**NQF Level: 9**

This course focuses on how to develop strong theory/biologically based conceptual models, and then how to develop and implement appropriate statistical models to test hypotheses. It will show to select and represent outcome and exposure variables for analysis (Continuous, binary, categorical, indices, factors scores, etc.); and how to select the most appropriate statistical models (linear, logistic, multilevel, etc.); and how to interpret and represent results in publications. This will be accomplished through didactic and “hands on“ exercises, using examples from existing cohort studies with data related to HIV and health outcomes. Analysis of cohort data will be emphasised as a means to establish temporal sequences of exposures and outcomes and to develop causal inferences. Students will learn about the tools needed for the analysis of long term health outcomes and effects of interventions.

Course Code: COMH7265A	
Course Description: Adapting, Implementing and Evaluating Evidence Based Interventions	
NQF Credits: 15	**NQF Level: 9**

This course has been developed to address the gap in implementation of proven interventions in the real world. The methods in implementation science are interdisciplinary as well as build on translating evidence into practice, policy and public health intervention. This course will discuss what Evidence Based Interventions are and give examples based on some HIV/health research interventions. There is abundant evidence of efficacy of interventions that have been carried out in Sub-Saharan Africa but these working interventions have not been backed up with knowledge and skills on how to deliver those interventions effectively in a real setting. Sub-Saharan Africa faces diverse challenges, including limited resources, poor socio-economic status and a broken health system. The course will help students to develop skills in identifying and adapting EBIs in more resource constrained environment.

Course Code: COMH7266A	
Course Description: Longitudinal Analysis and Causal Inference	
NQF Credits: 15	**NQF Level: 9**

This course introduces the student to more intermediate Structured Query Language (SQL) and develops on what they were introduced to in principles and operations of the Relational Databases. The course also introduces students to the concepts surrounding Demographic Surveillance Systems (DSS), DSS database design and structure as well as the basic relational model for DSS. Students are introduced to a sample DSS database (Agincourt 1in10) and are taught how to run basic queries to calculate basic demographic rates in various practical hands on sessions. At the conclusion of this course students will be able to understand and design a simple DSS longitudinal database as well as query and perform basic analyses on a standard relational DSS database.

Course Code: COMH7268A	
Course Description: Spatial Analysis and GIS in Public Health	
NQF Credits: 15	**NQF Level: 9**

Spatial statistics or spatial analysis are linked to GIS and are used for analysing spatial distributions, patterns and relationships of disease spread with other factors. In our case, spatial statistics will mainly be used in relation to diseases. Spatial statistics are unique in that they were developed specifically for use with geographic (GIS) data. Unlike traditional non-spatial statistical methods, they incorporate space (proximity, area, connectivity, and/or other spatial relationships) directly into their mathematics. Considering the need to find distributions on infections/diseases and targeted intervention, there is need for capacity in spatial analysis and data presentation. The material covered is the same for the course COMH7246A.

Course Code: COMH7286A	
Course Description: Economic Evaluation	
NQF Credits: 15	**NQF Level:**

The course aims to expand on the basic principles of economic evaluation presented in the Introduction to Health Economics course. It will provide students with the knowledge and skills required to undertake a basic economic evaluation. The course covers different types of economic evaluations; the methods and processes used in economic evaluation; as well as the valuation and measurement of health costs and outcomes. It will also deepen students' skills in the critical appraisal of existing economic evaluation studies.

Course Code: COMH7287A	
Course Description: Introduction to Health Economics	
NQF Credits: 15	**NQF Level: 9**

This course provides a basic introduction to the field of Health Economics. It explores the insights that an economic perspective can contribute to the planning and implementation of health services and health systems. The first half of the course focuses on the application of classical and behavioural economic approaches to analysing individual health behaviour and the functioning of health markets. The second half of the course covers the principles and common methods of economic evaluation, particularly cost-effectiveness analysis. It will also provide the student with basic skills in the interpretation and critique of cost-effectiveness studies.

Course Code: COMH7288A

Course Description: Decision Analysis for Economic Evaluation

NQF Credits: 15	**NQF Level: 9**

This course builds on the Economic Evaluation course to provide students with a practical understanding of analytical modelling for economic evaluation. It covers the step-by-step process of developing and interpreting decision analysis models for economic evaluation and health technology assessment. It includes the use of decision trees and Markov models; uncertainty analysis; budget impact analysis; and methods for presenting the results of these analyses.

Course Code: COMH7289A

Course Description: Economics of Health Care

NQF Credits: 15	**NQF Level: 9**

The course builds on the basic concepts introduced in the Introduction to Health Economics course to provide a foundation in the application of micro-economic analysis to the field of health. The course covers how classical supply, demand and market analyses have been applied to the production and consumption of health services. Students will also be introduced to more recent behavioural economic approaches and their relevance in understanding health care demand and supply. The course includes the basic theoretical models as well as case studies describing their practical application in health care systems.

Course Code: COMH7290A

Course Description: Infectious Disease Modelling

NQF Credits: 15	**NQF Level: 9**

This course introduces candidates to the epidemiology of infections, measures of transmissibility of infections, dynamics of infections, classical models in infectious disease epidemiology with applications and methods for developing models of the transmission dynamics of infectious diseases and to the applications of these models. Methodological issues in modelling will be discussed and current areas of applications of mathematical models, namely the transmission of HIV and tuberculosis will be introduced. The emphasis will be on developing a conceptual understanding of the basic methods and on their practical application rather than the manipulation of mathematical equations. This course includes a practical problem on transmissibility and epidemic potential of a chosen infectious disease.

Course Code: COMH7291A

Course Description: Quality Improvement Science

NQF Credits: 15	**NQF Level: 9**

This course has been developed to address the gap in implementation of proven interventions in the real world. There is abundant evidence of efficacy of interventions that have been carried out in Sub-Saharan Africa but these working interventions have not been backed up with knowledge and skills on how to deliver those interventions effectively in a real setting. Sub-Saharan Africa faces diverse challenges, including limited resources, poor socio-economic status and a broken health system. The course will provide skills in how these proven and affordable interventions can be implemented to improve health outcomes in the region. This requires tools, approaches that take into consideration evidence to enhance equity and efficiency in delivery of the services. Therefore the course will introduce participants to knowledge and skills to enable them to plan and carry out implementation research aimed at improving the implementation and management and control of disease and or conditions and other health programs.

Course Code: COMH7292A	
Course Description: Mobile Health (mHealth) Technologies for Implementation Research	
NQF Credits: 15	NQF Level: 9

This course aims to present a broad range of perspectives on mHealth and impact on the future of HIV/AIDS implementation research. Through case studies, multimedia tutorials, interactive exercises, and live demonstrations of tools, participants will explore delivery mechanisms, such as Interactive Voice Recognition (IVR), SMS (text message) communication programs, smartphone applications, and health information systems for data collection and management.

Course Code: COMH7293A	
Course Description: Monitoring and Evaluation for Health Programmes	
NQF Credits: 15	NQF Level: 9

This course provides students with the basic concepts and methodologies needed to undertake monitoring, evaluation, and surveillance of HIV/AIDS programs. The course covers data use, frameworks, program monitoring, indicators, information sources, evaluation designs, and surveillance. A particular focus is given to identifying what methods are needed for program monitoring, evaluation, and surveillance based on the implementation phase of the program (e.g., pilot testing a new strategy, evaluating the program outcomes, or implementing the program at scale). The focus of the course is on practical issues for undertaking program monitoring, evaluation and surveillance of HIV/AIDS programs.

Course Code: COMH7294A	
Course Description: Introduction to Computing in Biostatistics	
NQF Credits: 15	NQF Level: 9

This course introduces candidates to two computer software packages commonly used for analysing health data. Candidates will gain hands on skills in these programmes. The Epi-info package has several features and is widely used in resource poor environments. By the end of the course, students will be familiar with and able to use the basic programmes of Epi-Info. The introduction to Stata will outline the features and structure of the programme. Candidates will gain skills in commands for managing, manipulating and editing data, and will learn how to conduct initial analyses in Stata.

Course Code: COMH7295A	
Course Description: Exposure Control I	
NQF Credits: 15	NQF Level: 9

This course introduces the basic principles behind controlling a workplace hazard and the different methods of selection of controls. Topics include: fundamentals of intervention/implementation science; formative research; stakeholder communication; cost-benefits/cost effectiveness; health economics; multi-criteria decision analysis; and resilience interventions.

Course Code: COMH7296A	
Course Description: Exposure Control II	
NQF Credits: 10	NQF Level: 9

This course provides in-depth knowledge of the techniques of controlling workplace hazards according to the hierarchy of controls. Topics include: hierarchy of control; prevention through design; ergonomic design; engineering controls 1 (ventilation, extraction, filtration); engineering controls 2 (mine ventilation); engineering controls 3 (control of hazardous biological agents); engineering controls 4 (noise, vibration and radiation); administrative controls; and Personal Protective Equipment (PPE) 1 & 2.

Course Code: COMH7297A	
Course Description: Exposure Induced Health Outcome	
NQF Credits: 15	NQF Level: 9

This course covers the basic principles of environmental and occupational exposures and the associated potential health outcomes. It also focuses on the interaction between stressors and receptor and potential health outcomes which are key to understanding health risk assessment and risk management methods and systems. Topics include the basic principles of sound/ acoustics and hearing impairment; vibration and hand-arm vibration syndrome (HAVS); heat and cold strain, thermal stress and thermal comfort; non-ionising radiation and health effects; ionising radiation and health effects; ergonomics and musculoskeletal disorders; cognitive ergonomics and mental and behavioural disorders; biological hazards and (communicable) diseases (water sanitation included).

Course Code: COMH7298A

Course Description: Fundamentals of Risk Assessment

NQF Credits:15	**NQF Level: 9**

This course introduces the risk-based approaches of controlling Occupational Hygiene (OH) stressors. It demonstrates how an OH risk assessment follows a logical progression of steps to arrive at a defensible assessment of the health risks in a particular work situation. Topics include: fundamentals of risk assessment; regulatory risk assessment & probabilistic risk assessment; introduction to comparative risk assessment & alternatives assessment; life cycle (inventory) and assessment; risk assessment/ prioritisation tools; exposure-induced risk and health status; exposure-induced risk and vulnerable groups.

Course Code: COMH7299A

Course Description: Exposure Assessment Methods I

NQF Credits: 10	**NQF Level: 9**

This course covers the processes of exposure and their variation. It equips the candidates with the knowledge and skills for appropriately analysing occupational exposure data. Topics include: exposure assessment strategies; individual vs Similar Exposure Groups (SEGs); Real time (RT) monitoring vs time aggregated sampling; Geographic Information System (GIS) exposure mapping; and exposure data analysis.

Course Code: COMH7300A

Course Description: Exposure Assessment Methods II

NQF Credits: 10	**NQF Level: 9**

This course builds on the fundamentals covered in the Exposure Assessment Methods I course. It provides in-depth knowledge and skills to appropriately assess different occupational exposure hazards and stressors. Topics include: sensor technology; measurement of aerosols and gases; noise and vibration dosimetry/barometric pressure; radiation and dosimetry; measurement of thermal stress; and measurements of biological agents.

Course Code: COMH7301A

Course Description: Exposure Science I

NQF Credits: 15	**NQF Level: 9**

This course introduces the fundamentals of exposure science, with emphasis on the similarities of the underlying mechanisms and processes from release at the source to emission at the receptor in environmental, consumer and workplace exposure. Topics include: introduction to exposure science and exposure ontology; characteristics of workplace, residential, environmental and consumer exposure; relationship between outdoor-indoor exposure; aggregated and cumulative exposure; inhalation models from exposure to dose, and basic kinetics (absorption, distribution, metabolism, excretion).

Course Code: COMH7302A

Course Description: Exposure Science II

NQF Credits: 10	**NQF Level: 9**

The course provides an in-depth assessment of the physical and/or chemical processes responsible for the release, transport and emission/exposure of different stressors, for different scenarios. Topics include: aerosol physics; track in dust and resuspension; intrusion of ambient particles; source apportionment; transmission of pathogens; fundamental of skin exposure and inadvertent oral exposure.

Course Code: COMH7303A	
Course Description: Risk and Safety Management: Systems and Programmes	
NQF Credits: 15	NQF Level: 9

This course introduces the systems and programmes of occupational risk and safety management and their relationship with occupational hygiene. Topics include: risk and safety management principles and theoretical considerations; risk management and behaviour aspects/risk perception; safety management systems; risk management systems; hazardous waste management; risk management and health surveillance; development of hazard control program (hearing conservation programme, respiratory protective equipment programme etc.) in occupational settings; and ISO-standards (risk and safety management).

Course Code: COMH7304A	
Course Description: Computational Exposure Assessment	
NQF Credits: 10	NQF Level: 9

This course covers the processes of exposure and their variation. It equips candidates with the knowledge and skills for appropriately assessing different occupational exposure hazards and stressors. Topics include: atmospheric dispersion models; workplace models (one-box models/2box models near-field far field); consumer exposure models; and hands-on models.

SCHOOL OF THERAPEUTIC SCIENCES

Course Code: NRSE1002A	
Course Description: Integrated General Nursing Sciences I	
NQF Credits: 64	NQF Level: 6

This course is based within a patient-centred model. It assists students to meet the needs of patients taking into account their individual, group and community profiles. Nurses are prepared for their role to provide nursing care and advise patients according to evidence and their limited expertise. The course covers health care recipient concepts (human development through the lifespan, functional ability, family dynamics, culture, spirituality, adherence to treatment, self-management); health and illness concepts (thermoregulation, nutrition, elimination, sleep, mobility, tissue integrity) and professional nursing and health care concepts (communication, care giving, professional identity).

Course Code: NRSE1003A	
Course Description: Sociological and Psychological Foundations of Health	
NQF Credits: 40	NQF Level: 5

This course covers concepts related to culture; spirituality; adherence; self-management; family dynamics; communication; mood and affect; stress and anxiety; cognition and coping. An understanding of these concepts is essential for a health professional to work constructively with people within the health care system.

Course Code: NRSE1004A	
Course Description: Biological Foundations of Health	
NQF Credits: 40	NQF Level: 5

This course covers concepts related to fluid and electrolytes; nutrition; elimination; perfusion; clotting; gas exchange; reproduction; sexuality; development and tissue integrity. These concepts are essential for a health professional's understanding of health and illness processes in order to prevent and manage health care problems.

Course Code: NRSE1005A	
Course Description: Health and Illness	
NQF Credits: 40	NQF Level: 5

This course covers concepts related to sensory perception; pain; mobility; fatigue; sleep; self-management; functional ability; psychosis; addiction and inter-personal violence. It examines factors which may impact on or lead to health care problems as well as those health care problems that may arise from a combination of socio-psychological and physical health care problems.

Course Code: NRSE2001A

Course Description: Integrated General Nursing Sciences II

NQF Credits: 60 **NQF Level: 6**

This course focuses on the promotion of health, prevention of disease and treatment of illness. These concepts are complex and represent a multitude of health-related conditions. It focuses on the commonalities of conditions rather than specific illnesses. It prepares the nursing student to recognise characteristics and notice alterations and should be able to implement appropriate nursing care. It covers health and illness concepts (fluid and electrolyte balance with chemistry, acid-base balance with chemistry, cellular regulation, intracranial regulation, glucose regulation, perfusion, gas exchange, clotting, immunity, inflammation, infection, sensory perception with physics, pain, fatigue)as well as professional nursing and health care concepts.

Course Code: NRSE2004A

Course Description: Homeostasis and Regulation

NQF Credits: 40 **NQF Level: 6**

This course covers concepts related to homeostasis; acid-base balance; cellular regulation; intracranial regulation; hormonal regulation; glucose regulation; thermoregulation; immunity; inflammation and infection. An understanding of the major role homeostasis plays in the functioning of the body and how different mechanisms regulate the human body will assist the student to understand pathophysiology and manifestations of the health care conditions presented by patients.

Course Code: NRSE2002A

Course Description: Applied Microbiology

NQF Credits: 40 **NQF Level: 6**

This course covers concepts related to biochemical principles and cell structure; microbial nutrition; growth and metabolism; microbial diversity and microbial genetics; microorganisms in the environment; fungi, protozoa and viruses; prevention and management of common bacterial, viral and fungal diseases; the epidemiology of infection; the host-parasite relationship; parisitic helminths and prevention and management of common parasitic diseases. This course explores the nature of micro-organisms which forms the basis for an understanding of infection prevention. An understanding of these organisms is essential for health professionals to grasp the causes and control of disease and so reduce the major problem of infection within the community and particularly in hospitals.

Course Code: NRSE2003A

Course Description: Clinical Therapeutics for Health Professionals

NQF Credits: 40 **NQF Level: 6**

This course covers concepts related to medications that are used to manage conditions related to the various body systems viz. the respiratory system; the cardio-vascular system; the gastro-intestinal system; the endocrine system; the reproductive system; the nervous system; the immune system; the eyes, ears and skin. In addition, a concept on each of pain and inflammation management and antimicrobial drugs are included.

Course Code: NRSE3003A

Course Description: Integrated General Nursing Sciences III

NQF Credits: 48 **NQF Level: 7**

This course focuses on the promotion of health, prevention of disease and treatment of illness. These concepts are complex and represent a multitude of health-related conditions. It focuses on the commonalities of conditions rather than specific illnesses. It prepares the nursing student to recognise characteristics and notice alterations and should be able to implement appropriate nursing care. It covers health and illness concepts (stress, coping, mood and effect, anxiety, cognition, psychosis, addiction, interpersonal violence) and professional nursing and health care concepts (safety, care coordination, palliative care, health disparities).

Course Code: NRSE3004A	
Course Description: Midwifery I	
NQF Credits: 60	**NQF Level: 7**

This course focuses on the theory behind concepts related to women's health before, during and after pregnancy. Topics include: normal pregnancy and birth (sexuality, reproduction, hormonal regulation, conception, foetal development, physiological changes in pregnancy, antenatal care, stages and processes of labour, care in labour, physiological changes in the newborn, physiological and psychological changes in the puerperium, assessment of the postnatal woman, adaptation to parenthood and infant feeding).

Course Code: NRSE3005A	
Course Description: Evidence Based Integration	
NQF Credits: 40	**NQF Level: 7**

This course synthesizes the knowledge acquired during the Bachelor of Health Science (Nursing Systems Science) programme, focusing on clinical judgement and personal development. It assists the student to reflect on evolving issues within the profession and as a professional practitioner. It encourages the student to plan and execute career goals, to develop a culture of life-long learning and to contribute to the improvement of the quality of patient care in the health system.

Course Code: NRSE3006A	
Course Description: Health Care Systems	
NQF Credits: 40	**NQF Level: 7**

This course covers concepts related to health care organisations; health care economics; health policy; health care law; care coordination; caregiving; health disparities; echnology and informatics; leadership; and National Health Insurance. It assists students to understand the healthcare system and the organisation and management of health service delivery responsible for continually reducing the burden of disease, injury and disability and improving the health and functioning of the population of the country by protecting them against threats to their health.

Course Code: NRSE3007A	
Course Description: Quality in Health Care	
NQF Credits: 40	**NQF Level: 7**

This course covers concepts systems; healtcare quality measurement; healthcare quality improvement; evidence; ethics; collaboration; safety; medico-legal challenges; patient education and health promotion. This course emphasises the importance to equip the student to appreciate the measurement and improvement of quality in healthcare and the role of the health professional.

Course Code: NRSE4003A	
Course Description: Integrated General Nursing Sciences IV	
NQF Credits: 60	**NQF Level: 8**

This course covers professional nursing and health care concepts. Topics include: clinical judgement, leadership, ethics, patient education, health promotion, collaboration, technology and informatics, evidence, health care quality, health care organisations, health care economics, health policy, health care law, research methodology and research report.

Course Code: NRSE4004A	
Course Description: Midwifery II	
NQF Credits: 60	**NQF Level: 8**

This course provides the theoretical foundations to providing care to women with high risk pregnancies and births. Topics include: high risk pregnancy and birth (emergency management, reduction of infant mortality, risk management in midwifery, high risk pregnancy, labour, puerperium, compromised infant and family) and professional nursing and health care concepts (safe motherhood, advocacy and empowerment, gender and reproductive rights, policy and access to health care).

Course Code: NRSE7000A

Course Description: Basic Sciences Related to Advanced Nursing Studies

NQF Credits: 30 **NQF Level: 9**

This course is designed to equip the candidate with advanced knowledge of the science required for specialist nursing practice. The course consists of four (4) core modules which cover basic sciences such as anatomy, physiology, pharmacology, advanced assessment, monitoring and diagnostic skills. Teaching and learning takes place through interactive lectures, group discussions and skills workshops which are supported by the e-learning platform. Emphasis is on the application of the content across different patient populations in preparation for specific advanced in the second year of study.

Course Code: NRSE7004A

Course Description: Advanced Psychiatric Nursing Science

NQF Credits: 30 **NQF Level: 9**

The course focuses on the study and implementation of psychosocial and mental health/psychiatric nursing methods and skills. It is designed to develop the candidate professionally and personally in order to render mental health care at an advanced level. On completion, the candidate should be able to supervise, teach and manage mental health care in relation to individuals, families, groups and communities.

Course Code: NRSE7011A

Course Description: Intensive Care Nursing Science

NQF Credits: 30 **NQF Level: 9**

This course provides the candidate with the knowledge and skills to care for the critically ill patient and their families in the intensive care units. The course includes: specific pathophysiology, assessment, diagnostic and treatment procedures; a systems approach to serious injury and disease; specific pharmacotherapy, advanced life support, advanced nursing care and psycho-social care.

Course Code: NRSE7012A

Course Description: Child Nursing Science

NQF Credits: 30 **NQF Level: 9**

This course involves the study of child health, factors influencing the health and development of children and health service delivery to children. Emphasis is placed on the holistic view of the child within the context of family, community and society. The course content includes neonatology, medical conditions of the various systems, childhood infections and paediatric surgical conditions. Psychosocial, cultural, nutritional, pharmacological and legal aspects in child care will be integrated throughout.

Course Code: NRSE7013A

Course Description: Occupational Health Nursing Science

NQF Credits: 30 **NQF Level: 9**

This course is designed to equip the candidate with skills and knowledge to plan, implement and evaluate comprehensive occupational health nursing practice within an ethical, legal and client centred approach. The course emphasises the role and activities of the nurse on all levels of prevention of work related and chronic diseases. Content includes occupational legislation, safety hygiene, diseases, toxicology and ergonomics. It also includes the influence of socio-political, economic and technical developments; hazard infection and risk assessment and management; health assessment, health surveillance, biological monitoring, the management of an occupational health service, primary, emergency care and disaster management and health promotion. In addition the course includes competency in short courses in vision, audiometric and spirometry screening. The course consists of theoretical and work integrated learning components.

Course Code: NRSE7015A

Course Description: Advanced Nursing Education

NQF Credits: 30 **NQF Level: 9**

The course is designed to equip the candidate who would be professional nurses pursuing a career in the formal education of undergraduate and post graduate nursing students. The course involves study of the Higher Education System, dynamics of nursing education, curriculum development, cooperative learning approaches, educational delivery systems and comparative nursing education.

Course Code: NRSE7018A

Course Description: Trauma and Emergency Nursing Science

NQF Credits: 30	NQF Level: 9

The course is designed to prepare candidates for advanced trauma and emergency care practice. The course content includes: assessment and management of prehospital trauma and medical emergencies which include disaster management, fire and water rescue and aeromedical evacuation; primary prevention of trauma; hospital-based trauma practice; pathophysiology, assessment, diagnosis, treatment of traumatic injuries and nursing care of critically injured patients; ethical-legal issues in trauma care.

Course Code: NRSE7021A

Course Description: Nephrology Nursing Science

NQF Credits: 30	NQF Level: 9

The course is designed to prepare the candidate for specialist practice in renal care in adults and children. The course includes the content of and skills training in renal disease assessment, diagnosis and management, infection control, dialysis, renal transplantation and alternative forms of renal replacement therapy. Nutritional, pharmacological, psychosocial and ethical-legal aspects will be integrated throughout the programme.

Course Code: NRSE7022A

Course Description: Oncology and Palliative Nursing Science

NQF Credits: 30	NQF Level: 9

This course prepares candidates for the advanced practice and holistic care of patients with cancer and their families. It emphasises the role of the nurse in the prevention and early detection of cancer, in support and rehabilitation as well as in palliative care and death. The course includes the consideration of major malignancies of all tissues, organs and systems, its pathophysiology, clinical manifestations, diagnosis and treatment modalities, specific nursing care and monitoring, communication and clinical skills in cancer treatment and palliation.

Course Code: NRSE7025A

Course Description: Professional Nursing Dynamics II

NQF Credits: 30	NQF Level: 9

This course is designed to assist candidates to understand and apply evidence in their daily working lives and builds on Professional Nursing Dynamics I, preparing candidates to advance the practice of nursing. This will occur through gaining improved insight into the professional, practical, legal and ethical issues affecting the profession. Research concepts including methodology of quantitative, qualitative and mixed methods research and academic writing skills are covered to enable candidates to explore problems inherent in practice areas of Sub-Saharan Africa to bring about improvement in health care services.

Course Code: OCCT1000A

Course Description: Fundamentals of Occupational Science and Occupational Therapy I

NQF Credits: 36	NQF Level: 5

This course introduces the student to the fundamentals of Occupational Therapy and the Science of Occupation. As part of the introduction to the Science of Occupation the course explores human occupation and its implication for health and wellness; factors influencing human occupation, occupational milestones, activities health, activities carried out in eight categories of occupations as well as the factors influencing dysfunction. The course guides students to understand the therapeutic value of occupations and how to analyse occupations and activities. Lastly it introduces the students to the health system within South Africa, research methodology and ergonomics.

The introduction to Occupational Therapy explores the philosophy, scope, process and practice of occupational therapy; roles of the occupational therapist and the development of the profession over time. The course also exposes students to models used within occupational therapy as well as assessment tools and modalities used to assess occupational performance and to identify occupational dysfunction.

Course Code: OCCT2000A

Course Description: Fundamentals of Occupational Science and Occupational Therapy II

NQF Credits: 48 **NQF Level: 6**

This course further develops the students' knowledge of Occupational Science and Occupational Therapy (OT). Within Occupational Science the students are introduced to the concepts of human movement, the Vona du Toit Model of Creative Ability, activity and activity analysis as well as disability and community appraisal. Students are introduced to basic concepts within research and develop data gathering and analysis skills by engaging in a small project. The community-based clinical work consists of shadowing a person with a disability for 15 hours to gain insight into facilitators and barriers impacting on the occupational performance and quality of life of people with disabilities. The Occupational Therapy section of the course introduces the students to assessment of occupational performance, the performance context, and components of performance. models and theories of practice, OT process in different fields of practice, clinical reasoning, reflective practice and ethical principles; client handling; counselling; wheelchair mobility, transfers, seating are also explored in depth. The clinical fieldwork for this section consist of six visits to hospitals and community-based institutions to practice the above-mentioned skills.

Course Code: OCCT3000A

Course Description: Occupational Therapy II Applied to Physical Conditions

NQF Credits: 30 **NQF Level: 7**

This course focuses on the study of the effect of physical pathology on client factors, performance skills, occupational performance and participation. It further introduces the students to occupational therapy assessment and intervention techniques for physical conditions. Clinical fieldwork for this course consist of a five-week placement at a hospital or community-based institution and focuses on developing assessment and intervention skills within the physical (musculoskeletal and neurological) field of practice.

Course Code: OCCT3001A

Course Description: Occupational Therapy II Applied to Psychiatric Conditions

NQF Credits: 30 **NQF Level: 7**

This course focuses on the study of the effect of psychiatric pathology on client factors, performance skill, occupational performance and participation. It further introduces the students to occupational therapy assessment and intervention techniques for mental health care users. Within the course students are also introduced to occupational therapy interventions and the use of therapeutic skills and techniques including application group work in the intervention for clients with psychiatric conditions. Clinical fieldwork consists of a five-week placement at a hospital or community-based institution and focuses on developing assessment and intervention skills within the psychiatric field of practice.

Course Code: OCCT3002A

Course Description: Medicine and Surgery for Occupational Therapy

NQF Credits: 12 **NQF Level: 7**

This course focuses on the South African burden of disease profile and is divided into several parts including: Anatomical pathology, Radiology, Cardiothoracic, Surgery, Internal Medicine, Orthopaedics and Neurology, Pathology, Obstetrics and Gynaecology and Paediatrics. Each part comprises of aetiology, signs & symptoms of selected conditions in the above-mentioned areas. The objective of the course is for the students to identify and describe assessment, management, major treatment methods, side effects, handling, precautions as well as consider the prognosis of the selected condition.

Course Code: OCCT3003A

Course Description: Science of Occupation II

NQF Credits: 24 **NQF Level: 7**

The course comprises of three units. The first unit: Occupational Performance, explores the concepts of vocational orientation, vocational rehabilitation and leisure. Unit 2: Occupational Health and Dysfunction focuses on factors influencing occupational performance and dysfunction, including: all client factors and performance skills that support and enable human occupation and client factor and performance skill deficits that create occupational dysfunction. Applied analyses skills are also developed. Lastly Unit 3: Management Programmes and Research, includes groups and group processes, Public Health principles and provision of OT services on the primary/ community platform including community development, health promotion, primary prevention and disability advocacy. Additionally, students are expected to complete a research protocol for a project. A 2-day clinical fieldwork focuses on the development of community assessment/ appraisal skills.

Course Code: OCCT4000A	
Course Description: Science of Occupation III	
NQF Credits: 30	**NQF Level: 8**

This course comprises of 3 sections. Firstly, Public Health which consist of a 7-week rural and a 7-week urban community fieldwork block. The fieldwork aims to explore the roles of occupational therapists within community-based rehabilitation, primary health care, primary level of care, school-based settings and district level settings. It focuses on all aspects of occupational performance and the promotion and prevention of occupational dysfunction to promote health and wellness in individuals, groups and communities. Section 2: Management, Programmes and Research; aims to develop the knowledge and skills of students in management, ethics, research and Evidence-based Practice (EBP). Section 3: Vocational rehabilitation aims to develop vocational assessment and intervention skills.

Course Code: OCCT4001A	
Course Description: Occupational Therapy as Applied to Psychiatric Conditions	
NQF Credits: 36	**NQF Level: 8**

This course focuses on the theoretical and clinical instruction in the occupational therapy management of mental health care users of all ages, with a variety of different mental disorders including learning disabilities in both community and hospital settings. Within this course, advanced group work skills, counselling skills and management of compassion fatigue/ burnout are developed. A significant part of this course is practice in clinical settings. Clinical fieldwork for this course consist of a 7-week fieldwork placement in an institution or community setting. The clinical fieldwork aims to consolidate assessment skills, further develop intervention skills, clinical reasoning skills, reflective practice, case and self-management skills.

Course Code: OCCT4002A	
Course Description: Occupational Therapy as Applied to Physical Conditions	
NQF Credits: 36	**NQF Level: 8**

The focus of this course includes theoretical and clinical instruction in the occupational therapy management of clients of all ages with physical diseases and disorders in a variety of clinical settings. A significant part of this course is practice in a variety of clinical settings. Clinical fieldwork for this course consist of a 7-week fieldwork placement in an institution or community-based setting. The clinical fieldwork aims to consolidate assessment skills, further develop intervention skills, clinical reasoning skills, reflective practice, case and self-management skills.

Course Code: OCCT5010A	
Course Description: Occupational Therapy Treatment of Neurological Disorders	
NQF Credits: 50	**NQF Level: 8**

This course consists of the advanced occupational therapy assessment and interventions for paediatric and adult clients with neurological deficits/ disorders including: human development and systems theory; occupational science; models of neurosciences; client factors and performance skills in the neurological system that impact on occupational performance and occupational performance dysfunctions; frames of reference and theories that support occupational therapy practice in this neurological field; use of evidence in practice; paediatric and adult occupational therapy assessment and intervention.

Course Code: OCCT5011A

Course Description: Occupational Therapy Treatment of Perceptual Disorders

NQF Credits: 50 **NQF Level: 8**

This course consists of the advanced occupational therapy assessment and interventions for paediatric clients with perceptual deficits/disorders including: human development and systems theory; occupational science; models of practice applied to clients with perceptual problems; client factors and performance skills in the perceptual and cognitive system that impact on occupational performance and occupational performance dysfunctions; frames of reference and theories that support occupational therapy practice in the perceptual field of practice; use of evidence in practice; paediatric and adult occupational therapy assessment and intervention.

Course Code: OCCT5012A

Course Description: Occupational Therapy Treatment of Psychiatric Disorders

NQF Credits: 50 **NQF Level: 8**

This course consists of the advanced occupational therapy assessment and interventions for adult mental health care users with a variety of mental health disorders and includes: human development and systems theory; occupational science; models of occupational therapy; client factors and performance skills that impact on occupational performance and occupational performance dysfunctions of MHCUs; frames of reference and theories that support occupational therapy practice in the field of psychiatry; use of evidence in practice; adult occupational therapy assessment and intervention; advanced group work and occupational therapy counselling.

Course Code: OCCT7029A

Course Description: Research Methodology

NQF Credits: 15 **NQF Level: 9**

This course is designed especially for students of Therapeutic Sciences and aims to assist students with designing their research project for degree purposes as well as to help them with developing a research proposal. It introduces students to quantitative and qualitative research methods and data analysis. Criteria for passing this course include the completion and approval of the protocol and obtaining ethical clearance for the project by the end of the year.

Course Code: OCCT7030A

Course Description: Occupational Therapy Treatment of Neurological Disorders

NQF Credits: 30 **NQF Level: 9**

This course consists of the advanced occupational therapy assessment and interventions for paediatric and adult clients with neurological deficits/ disorders including: human development and systems theory; occupational science; models of neurosciences; client factors and performance skills in the neurological system that impact on occupational performance and occupational performance dysfunctions; frames of reference and theories that support occupational therapy practice in this neurological field; use of evidence in practice; paediatric and adult occupational therapy assessment and intervention.

Course Code: OCCT7031A

Course Description: Occupational Therapy Treatment of Perceptual Disorders

NQF Credits: 30 **NQF Level: 9**

This course consists of the advanced occupational therapy assessment and interventions for paediatric clients with perceptual deficits/disorders including: human development and systems theory; occupational science; models of practice applied to clients with perceptual problems; client factors and performance skills in the perceptual and cognitive system that impact on occupational performance and occupational performance dysfunctions; frames of reference and theories that support occupational therapy practice in the perceptual field of practice; use of evidence in practice; paediatric and adult occupational therapy assessment and intervention.

Course Code: OCCT7033A	
Course Description: Occupational Therapy Treatment of Psychiatric Disorders	
NQF Credits: 30	NQF Level: 9

This course consists of the advanced occupational therapy assessment and interventions for adult mental health care users with a variety of mental health disorders and includes: human development and systems theory; occupational science; models of occupational therapy; client factors and performance skills that impact on occupational performance and occupational performance dysfunctions of MHCUs; frames of reference and theories that support occupational therapy practice in the field of psychiatry; use of evidence in practice; adult occupational therapy assessment and intervention; advanced group work and occupational therapy counselling.

Course Code: PACY1000A	
Course Description: Pharmaceutical Practice	
NQF Credits: 36	NQF Level: 5

This course introduces key concepts and basic foundation principles of the pharmacy profession. It comprises two components. The theoretical component equips the student with background knowledge in the major disciplines of pharmacy including pharmacy practice, pharmaceutics and pharmaceutical chemistry. Students are also taught important communication, critical and application skills that are further developed in later years. Furthermore, the course explores a historical perspective and the legislative aspects of pharmacy. The practical component consists of Work-Based Learning (which is documented and assessed), where students apply the theoretical concepts taught in a practical work environment.

Course Code: PACY2000A	
Course Description: Pharmaceutical Chemistry I	
NQF Credits: 36	NQF Level: 6

This course covers key concepts of pharmaceutical chemistry comprising pharmaceutical analysis, inorganic pharmaceuticals and physical chemistry. It teaches analytical chemistry to analyse pharmaceuticals as performed in pharmaceutical labs worldwide. It also provides the student with knowledge of physicochemical properties of drugs that enables the development of monographs. The aim is for students to develop the knowledge and practical skills to analyse pharmaceutical materials for quality control and regulatory aspects and learn basic inorganic and radiochemistry using pharmacy-relevant examples and case studies. Students will also participate in integrated practicals to analyse finished pharmaceutical products, compute and resolve pharmaceutical calculations and integrate pharmaceutical analysis as QC/QA data and analytical method development based on drug properties.

Course Code: PACY2001A	
Course Description: Pharmaceutics I	
NQF Credits: 36	NQF Level: 6

This course introduces the students to fundamentals of pharmaceutics and dosage form design. It also provides the knowledge base to be applied in subsequent pharmaceutics courses and professional practice. The course comprises of a theoretical component with a detailed overview of basic physical pharmaceutics and dosage forms, biopharmaceutical principles of drug delivery, solutions and properties of solutions, colligative properties, rheological principles, dissolution and solubility, disperse systems, suspensions and emulsions, solid state properties, particle size, and powder technology. The practical component of the course includes dispensing of elementary dosage forms, formulation and calculations; processes and materials used in pharmaceutical packaging and production as well as pharmaceutical plant design.

Course Code: PACY2002A	
Course Description: Pharmacy Practice I	
NQF Credits: 18	NQF Level: 6

This course consists of a selection of primary and secondary topics relating to the legislative and policy framework of the pharmacy profession. It comprises of a theoretical and practical component. The theoretical component consists of aspects of legal, policy and ethical guidelines that govern pharmacists, pharmacies and the pharmacy environment (primary component). The course further applies the legal framework to a drug supply management; and patient care focus (secondary component). The practical component consists of Work-Based Learning (which is documented and assessed), where students apply the theoretical concepts taught in a practical work environment.

Course Code: PACY3000A

Course Description: Pharmaceutical Chemistry II

NQF Credits: 18 **NQF Level: 7**

This course develops knowledge as well as practical learning in pharmaceutical chemistry and the evaluation of pharmaceuticals from a Quality Control/Quality Assurance (QC/QA) and regulatory aspect. Students will gain knowledge in drug structure activity relationships, chemistry of the human genome as well as biomaterials chemistry. The practical component allows students to gain an understanding of synthesis, characterisation and application of chemistry concepts essential for pharmaceutical drug chemistry in terms of pharmaceutical evaluation of biomaterials, applying a Quality Management System (QMS) in QC/QA labs and resolving pharmaceutical calculation errors. Students will participate in integrated practical sessions that include pharmaceutical chemical synthesis, analysis of formulations and undertaking stability and drug kinetic evaluations.

Course Code: PACY3002A

Course Description: Pharmacy Practice II

NQF Credits: 18 **NQF Level: 7**

This course introduces the student to key concepts associated to pharmaceutical business and business management principles. The course consists of two components. The theoretical component equips the student with background knowledge in financial and pharmaceutical business management while emphasising the legislation governing pharmacy and its practice. The course also expands on important communication, critical and application skills introduced in previous years. The practical component consists of a 'PharmApprentice' program and Work-Based Learning (which is documented and assessed), where students apply the theoretical concepts taught in a practical work environment.

Course Code: PACY3003A

Course Description: Pharmaceutics II

NQF Credits: 18 **NQF Level: 7**

This course provides an understanding of drug delivery systems and how bio-actives are incorporated into them. It also teaches pharmaceutical characterisation techniques necessary to evaluate dosage forms and provides an opportunity to investigate challenges of current interest in pharmaceutics. The operation of key pharmaceutical manufacturing equipment is described together with pre-formulation principals, stability, quality by design, materials handling, in-process parameters, and basic unit operations in accordance with GMP/GLP/GDP requirements. Students will also learn concepts for designing specialised drug delivery systems and other novel drug delivery technologies. The practicals are integrated and focuses on the synthesis, formulation, evaluation and dispensing of basic and advanced dosage forms.

Course Code: PACY3004A

Course Description: Clinical Pharmacy I

NQF Credits: 36 **NQF Level: 7**

This course focuses on the student gaining an in depth understanding on the concept of treating diseases with medicines. It provides the student with knowledge of the definition; classification; epidemiology; aetiology; pathophysiology; for infectious diseases an understanding of microbiology; appropriate laboratory tests; clinical features and complications; differential diagnosis; non-pharmacological and pharmacological interventions; rational drug selection and patient counselling. Specific diagnostics and

point of care testing demonstrations such as peak flow will be provided to the student. The topics that will be included are: Antimicrobials; cardiovascular system; family planning; gastrointestinal system; HIV/AIDS; hyperlipidaemia; laboratory tests; musculoskeletal system; neurology; parasitic diseases; respiratory system; rheumatology; sexually transmitted diseases and tuberculosis.

Course Code: PACY4001A	
Course Description: Pharmaceutics III	
NQF Credits: 36	**NQF Level: 8**

This course comprises, Biopharmaceutics and Pharmacokinetics, Aseptic Technology and Modern Drug Delivery Systems. Biopharmaceutics examines the interrelationship of the physicochemical properties of drugs, the drug product and the route of administration on systemic drug absorption. Pharmacokinetics covers the principles of ADME applied to drug variability, calculating patient doses and therapeutic drug monitoring. In Aseptic Technology applied microbiology (including vaccines and probiotics) as well as using aseptic techniques to produce sterile pharmaceuticals is taught. In Modern Drug Delivery Systems the role of biomaterials to develop targeted drug delivery systems with emphasis on oral, implantable and injectable systems as well as Biosimilars is covered. The practicals apply the theory of pharmaceutical microbiology to produce sterile products, sterilisation methods and microbial assays.

Course Code: PACY4002A	
Course Description: Pharmaceutical Chemistry III	
NQF Credits: 18	**NQF Level: 8**

This course is designed to enable and equip the student to recognise the structure of medicinal agents, to attain an understanding of how the structure of said agents relates to their biological activity, and to be cognisant of important drug biosynthetic and metabolic pathways. The course consists of History and Introduction to Medicinal Chemistry, Drug Discovery and Development & SAR's. This course will explore the medicinal chemistry of the following classes of drugs; Antibiotics, CNS Agents, Steroids, Non-Steroidal Anti-Inflammatory Agents, and Anti-retrovirals through critical examination of relevant case studies and literature.

Course Code: PACY4003A	
Course Description: Special Undergraduate Research Project	
NQF Credits: 30	**NQF Level: 8**

This course is research-based and seeks to create hands-on research opportunities for pharmacy students while encouraging a broad perspective on the current research in the pharmaceutical sciences worldwide. The course offers an introduction to research, regardless of intended career choice, and will expose students to research in a variety of pharmaceutical specialties. The projects are either laboratory based or qualitative, which could include a meta-analysis, or research questionnaire in the various disciplines of pharmacy. Students are expected to work closely with a project Supervisor/s to develop a research protocol, understand the research process and present the findings of their research project either as a podcast or other online format that is assessed by a panel of experts.

Course Code: PACY4007A	
Course Description: Pharmacy Practice III	
NQF Credits: 36	**NQF Level: 8**

This course introduces the student to key concepts associated to pharmacy business and business management principles. The course consists of two components. The theoretical component equips the student with background knowledge in financial and business management while emphasising the legislation governing pharmacy and its practice. The course also expands on important communication, critical and application skills introduced in previous years. The practical component consists of Work-Based Learning (which is documented and assessed), where students apply the theoretical concepts taught in a practical work environment.

Course Code: PACY4008A

Course Description: Clinical Pharmacy II

NQF Credits: 18 **NQF Level: 8**

This course focuses on the student gaining an understanding on the concept of treating diseases with medicines. It provides the knowledge of the definition; classification; epidemiology; aetiology; pathophysiology; for infectious diseases an understanding of microbiology; appropriate laboratory tests; clinical features and complications; differential diagnosis; non-pharmacological and pharmacological interventions; rational drug selection and patient counselling. The topics that will be included are: dermatology, urinary tract infections, renal system, psychiatry, ophthalmology, paediatrics and skin and soft tissue infections. Clinical skills which include point of care testing and diagnostics are taught through physical assessment tutorials. Another component is Work-Based Learning where students have practical exposure to clinical/pharmacy settings to apply the theoretical concepts taught.

Course Code: PACY7004A

Course Description: Regulatory Affairs and Medicine Registration

NQF Credits: 10 **NQF Level: 9**

This course specialises in all aspects of Regulatory Sciences and on addressing the need for trained and skilled professionals working on the regulation of medicines. This course provides the required knowledge on current regulatory issues in the drug development and pharmaceutical industry in emerging markets and covers areas of ethics, writing and evaluating common technical documents, regulatory affairs, clinical trial management, health economics, regulatory sciences for generics, biosimilars, complimentary medicines and medical devices.

Course Code: PACY7006A

Course Description: Medicines Control

NQF Credits: 15 **NQF Level: 9**

This course covers all pertinent aspects of the control of medicines and includes aspects of compilation and updating of registration dossiers, registration of medicinal products, compilation of package inserts, advertising compliance, screening of data to ensure compliance with registration requirements and registration feasibility, assessing registerability of products, reviewing medicines for claim and labelling compliance, liaison with the Regulatory Authorities and regulatory compliance consultation.

Course Code: PACY7007A

Course Description: Pharmaceutical Production

NQF Credits: 15 **NQF Level: 9**

The Pharmaceutical Production course encompasses a series of lectures in which Good Manufacturing Practices (GMP) as utilised in the production of pharmaceutical products are covered. The role of the pharmacist in the Pharmaceutical Industry is included as a subject. Aspects such as the relationship between Quality Control, GMP and Quality Assurance are covered as well as Risk Control and the required processes and documentation required to achieve GMP. Legal aspects regarding the impact of Acts pertaining to the manufacture of Pharmaceuticals are included in the syllabus.

Course Code: PACY7008A

Course Description: Management

NQF Credits: 10 **NQF Level: 9**

This course has been designed to meet the demands of practitioners already working in public and private sector health service organisations. The curriculum reflects a heightened concern in the country with how well services are being delivered. The emphasis on this course is on basic management theory and leadership concepts, organisational development) and institutional reform practices, as well as the implementation of quality assurance/management systems. The perspective this course takes is making those concepts work in a way that achieves customer/client focus throughout the organisation, and especially in its sub-operations.

Course Code: PACY7011A	
Course Description: Clinical Laboratory Tests and the Interpretation thereof	
NQF Credits: 10	NQF Level: 9

This course focuses on the interpretation of clinical laboratory tests and results to assist with, or support, therapeutic assessments and decisions, regarding drug therapy. The course details aspects on interpreting lab tests in different patient cases and clinical conditions such as urea and electrolytes, full blood count, liver function tests, cerebrospinal fluid studies, urine tests, cholesterol screening tests, tests to monitor drug therapy and the understanding of acid-base balances and disorders.

Course Code: PACY7012A	
Course Description: Advanced Applied Pharmacokinetics	
NQF Credits: 10	NQF Level: 9

This course focuses on using drug concentrations, pharmacokinetic principles and pharmacodynamic criteria to assess and optimise drug therapy of individual patients, i.e. reduce toxicity without compromising efficacy and increase efficacy without unacceptable toxicity. The basic concepts of pharmacokinetics are explained with a focus on anticonvulsants, identification of the need for TDM in these drugs, discussing relevant drug interactions, the effects of protein binding, interpreting lab TDM results, calculating and individualising dosing regimens and making recommendations for possible changes in drug therapy and follow up evaluations.

Course Code: PACY7013A	
Course Description: Infectious Diseases Pharmacotherapeutics	
NQF Credits: 8	NQF Level: 9

This course introduces Pathophysiology and the clinical presentation of common infectious diseases; chemistry, pharmacology, and toxicology of common anti-infective agents and the therapeutic management of patients with common infectious diseases.

Course Code: PACY7014A	
Course Description: Cardiovascular Pharmacotherapeutics	
NQF Credits: 8	NQF Level: 9

This course comprises of an overview on the cardiovascular system including the basic physiology of the heart and different cardiovascular conditions. The candidate will have a good grasp on aspects of hypertension, congestive heart failure, ischemic heart diseases, Myocardial Infarction (MI), arrhythmias, hyperlipidaemia and thromboembolic disease.

Course Code: PACY7015A	
Course Description: Respiratory Pharmacotherapeutics	
NQF Credits: 8	NQF Level: 9

This course covers the therapeutics of key respiratory disorders including the pharmaceutical sciences that underpin such drug therapies. It includes the epidemiology, pathophysiology and clinical features of pertinent respiratory disorders and focuses on pulmonary function, asthma, drug induced lung diseases as well as chronic obstructive lung disease.

Course Code: PACY7016A	
Course Description: Gastrointestinal Pharmacotherapeutics	
NQF Credits: 8	NQF Level: 9

This course introduces patient care concepts, patient assessment, pharmacokinetics, pharmacodynamics, therapeutics, and therapeutic drug monitoring for patients with gastrointestinal disorders, as well as assessment and provision of nutritional needs. The following areas are covered, Gastro Oesophageal Reflux (GER), peptic ulcer disease, inflammatory bowel disease, nausea and vomiting, diarrhoea and constipation, drug metabolism by the liver, alcoholic liver disease, drug-induced liver disease, drug interactions and pancreatitis (acute and chronic).

Course Code: PACY7017A

Course Description: Endocrinology Pharmacotherapeutics

NQF Credits: 8 **NQF Level: 9**

This course focuses on the epidemiology, aetiology, pathophysiology, signs, symptoms, and tests leading to the diagnosis of common disorders/diseases of the endocrine system. The areas of focus include choosing the appropriate and effective therapy for Diabetes Mellitus (DM), thyroid disorders and disorders of the adrenal gland. In addition, it also focuses on monitoring and counselling the patient on the use of the recommended therapies and the formulation of pharmaceutical care plans.

Course Code: PACY7018A

Course Description: Psychopharmacotherapeutics

NQF Credits: 8 **NQF Level: 9**

This course provides opportunities to apply concepts of advanced health assessment, diagnostic reasoning, advanced pharmacology and psychopharmacology for the assessment of psychiatric illness. The focus is on the areas of schizophrenic disorders, depression, bipolar disorders, anxiety, hyperactive child syndrome and obsessive compulsive disorders.

Course Code: PACY7019A

Course Description: Renal Pharmacotherapeutics

NQF Credits: 8 **NQF Level: 9**

This course provides a thorough analysis of the pharmacotherapy of the renal system including common disease states and the therapies used to treat them. Topics covered in this course include: acute and chronic renal failure, electrolyte imbalances, acid/base disorders, secondary parathyroidism, and renal transplant.

Course Code: PACY7020A

Course Description: Oncologic Pharmacotherapeutics

NQF Credits: 8 **NQF Level: 9**

This course provides an in-depth look at the pharmacist's role in the therapeutic management of cancer including palliative care and specialised dosage forms. The course adopts an integrated approach through the epidemiology, risk factors, clinical presentation, pathophysiology, clinical course, and therapeutic management of cancer, including a thorough understanding of the pharmacological basis of treatment and its relation to drug structure.

Course Code: PACY7021A

Course Description: Clinical Trials

NQF Credits: 10 **NQF Level: 9**

This course provides an in-depth look at the pharmacist's role in the therapeutic management of cancer including palliative care and specialised dosage forms. The course adopts an integrated approach through the epidemiology, risk factors, clinical presentation, pathophysiology, clinical course, and therapeutic management of cancer, including a thorough understanding of the pharmacological basis of treatment and its relation to drug structure.

Course Code: PACY7022A

Course Description: Research Methodology

NQF Credits: 15 **NQF Level: 9**

This course focuses on research methods and covers a variety of aspects relevant to the planning, execution and reporting of research. The course emphasises biostatistics for selected important topics in biostatistical concepts and reasoning. It provides a survey of data and data types with specific topics for describing central tendency and variability in data, methods for performing inference on population means and proportions via sample data, statistical hypothesis testing and its application to group comparisons, issues of power and sample size in study designs and random sample and other study types.

Course Code: PACY7028A

Course Description: Pharmacoeconomics

NQF Credits: 10 **NQF Level: 9**

This course focuses on the economics of pharmacological products in healthcare systems. It covers key pharmacoeconomic analytical methods in specific situations, the planning and implementing of pharmacoeconomic research studies, compiling pharmacoeconomic reports and critically evaluating published pharmacoeconomic studies, identifying international trends, applying pharmacoeconomic principles and economic analysis to the evaluation of products with broad policy issues affecting the industry.

Course Code: PHAR3000

Course Description: Pharmacology

NQF Credits: 24 **NQF Level: 7**

This course covers the fundamental principles of pharmacology specifically aimed at nurses to enable a better understanding and knowledge of medicines and their effects in nursing practice. It includes key concepts: pharmacokinetics and pharmacodynamics; drugs in the management of cardiovascular disease; drugs in the management of pain and inflammation; antimicrobials and ARVs; dermatological agents; autonomic and central nervous system agents; respiratory pharmacology; endocrine and gastro-intestinal pharmacology; anaesthetic agents; toxicology; immunosuppression and cancer.

Course Code: PHAR3001A

Course Description: Pharmacology I

NQF Credits: 24 **NQF Level: 7**

This course covers the fundamental principles of pharmacology to provide the pharmacist with a strong foundation of the pharmacology of medicines dealt with in everyday practice. It includes key concepts of pharmacokinetics and pharmacodynamics such as drug absorption, distribution, biotransformation, receptor activity and dose-response relationships. It discusses the pharmacological properties of drugs used in the management of cardiovascular disease, pain and inflammation; as well as drugs that are effective in disorders of the autonomic and central nervous system, respiratory, endocrine and gastro-intestinal systems.

Course Code: PHAR3002A

Course Description: Pharmacology

NQF Credits: 24 **NQF Level: 7**

This course covers the fundamental principles of pharmacology with special emphasis on pain management and drugs useful in the practice of a physiotherapist. It includes key concepts of pharmacokinetics and pharmacodynamics; drugs that are effective in disorders of the autonomic and central nervous system, respiratory and endocrine systems. It covers the pharmacological properties of drugs used in the management of cardiovascular disease and includes a specific topic on drugs used in sport.

Course Code: PHAR3004A

Course Description: Pharmacology III

NQF Credits: 72 **NQF Level: 7**

This course for the Bachelor of Health Sciences students third year students provides an introduction into pharmacology with topics such as pharmacokinetics and pharmacodynamics that includes drug absorption, distribution, biotransformation, receptor activity and dose-response relationships. It discusses the pharmacological properties of drugs used in the management of cardiovascular disease, pain, inflammation and microbial infections, as well as drugs that are in effective in disorders of the autonomic and central nervous system, respiratory, endocrine and gastro-intestinal systems. Additionally, a special component to develop research skills including data collection, data analysis and writing and presentation skills is covered.

Course Code: PHAR3005A

Course Description: Pharmacology

NQF Credits: 6 **NQF Level: 7**

This course covers the fundamental principles of pharmacology of drugs used in dentistry or likely to be encountered in dental practice. It includes the basic pharmacokinetic and pharmacodynamics, antimicrobials and drugs used in the management of pain and inflammation. It also covers drugs used in the cardiovascular, endocrine, gastrointestinal, autonomic and central nervous systems. Prescription writing and drug legislation are also included.

Course Code: PHAR4003A

Course Description: Pharmacology II

NQF Credits: 12 **NQF Level: 8**

The course is a continuation of pharmacology for pharmacists from the third year of study with the emphasis on the safe and efficacious use of medicines and knowledge of potential drug interactions. Toxicology and the management of poisoning and veterinary pharmacology are included in this course. The course also covers antimicrobials as well as cancer chemotherapy and prescribing in special groups. The final examination is an integrated exam consisting of content from both BPharm III (PHAR3001A) and BPharm IV (PHAR4003A). Additionally, a component dealing with the understanding of evidence-based-medicine and critical appraisal is covered including: pharmacovigilance; pharmacoepidemiology; understanding biostatistics; pharmacoeconomics; health outcomes & quality of life; complementary & alternative medicines.

Course Code: PHAR4009A

Course Description: Pharmacology Health Sciences Honours Coursework

NQF Credits: 70 **NQF Level: 8**

The Pharmacology course for Bachelor of Health Sciences Honours (Health Sciences track) is for those students who have previously studied undergraduate pharmacology and the coursework consists of lectures, modules and tutorials that will address the fundamental principles of pharmacology covering several systems. The core pharmacological principles learnt during the undergraduate years will be strengthened and expanded into various specific areas of Pharmacology through lectures, tutorials and modules.

Course Code: PHAR4011A

Course Description: Pharmacology Biosciences Honours Coursework

NQF Credits: 70 **NQF Level: 8**

The Pharmacology course for Bachelor of Health Sciences Honours (Biosciences track) is for those students who have not previously studied undergraduate pharmacology and consists of lectures and tutorials that will address the fundamental principles of pharmacology covering several systems. The students will be introduced to core pharmacological principles in pharmacokinetic and pharmacodynamics, as well as in the following systems including: cardiovascular, respiratory, endocrine, reproductive, gastrointestinal, antimicrobials, autonomic and central nervous systems. In addition, specific modules will help the students develop a deeper understanding of select topics (toxicology, chemotherapy, pharmacokinetics), as well as develop their scientific and presentation skills.

Course Code: PHST1000A

Course Description: Introduction to Physiotherapy

NQF Credits: 36 **NQF Level: 5**

This course introduces students to key concepts related to physiotherapy practice using theory lectures, online and practical sessions. The content introduces interviewing, communication skills, research and professional behaviour. It also includes health education, HIV/AIDS (introduction to basics), group therapy and dynamics, soft tissue management (introduction to movement, thermo therapy, exercise therapy, soft tissue manipulation, bandaging, crutch walking, hydrotherapy and splinting).

Neurology rehabilitation techniques (bed mobility and positioning, lifting and transfers, passive movements, wheel chair activities); respiratory assessment and management techniques (postural drainage, breathing exercises, chest clearance techniques and discussion on smoking effects on the human body) are covered. Participation in clinical sessions with a qualified physiotherapist, introduction to nursing skills and a project regarding disability issues is ensured.

Course Code: PHST2000A	
Course Description: Physiotherapy I	
NQF Credits: 48	**NQF Level: 6**

This course includes theory lectures and practical sessions in therapeutic assessment and treatment. It also includes interview skills, communication, subjective and objective assessment-palpation, kinesiology, biomechanics, range of movement, muscle testing, sensation testing with knowledge of surface anatomy. Holistic assessment is augmented by in-depth knowledge in neurological examination, balance and coordination; gait biomechanical analysis; assessment of normal development, respiratory assessment and disease specific assessments such as burns, HIV/AIDs and paediatric conditions all informed by the burden of disease. This course is designed to equip the student with analysis and treatment techniques in electrotherapy, analysis of movement, basic facilitation, strapping, biomechanics, orthopaedic manipulative therapy, proprioceptive neuromuscular facilitation, motor learning theory, soft tissue treatment, exercise therapy, public health concepts, normal paediatric development facilitation, gerontology and an introduction to research.

Course Code: PHST2001A	
Course Description: Management for Therapists	
NQF Credits: 12	**NQF Level: 6**

The course consists of 20 hours of formal teaching and 20 hours of self-study in which the student will be required to complete a project. This project will be externally examined and count as the final mark for the course. Topics include: principles of accounting and finance (basic terminology and concepts of finance, setting up and interpreting a balance sheet); stock control (asset management); principles of economics (an overview of business and the economy, demand and supply relationship, pricing strategies); principles of marketing (marketing a product, writing curriculum vitae, entrepreneurship, funding a business, taxation and legal compliance, designing business plans); business environments (role of government in managing resources, introduction to fiscal and monetary policy, managing conflict).

Course Code: PHST3000A	
Course Description: Physiotherapy II	
NQF Credits: 24	**NQF Level: 7**

The course includes theory principles and practical application in the fields of neuromusculoskeletal physiotherapy (orthopaedic manipulative therapy, sport and orthopaedics) as well as cardiopulmonary rehabilitation across the life span . The course is designed to integrate basic science , pathology, aetiology, management and treatment techniques in detail. Topics include: musculoskeletal therapy and conditions (assessment and treatment of peripheral joints and nerve injuries and integration into clinical practice. Musculoskeletal conditions include conditions of the upper and lower limbs among sports population (pathology, assessment, & treatment and exercise prescription) and chronic musculoskeletal conditions such as osteo-arthritis and pain syndromes); orthopaedics (introduces the student to traumatology, assessment and treatment of peripheral joint fractures and joint replacements) and cardiopulmonary rehabilitation(promotion of health and well-being through exercise therapy in chronic diseases; application of respiratory and exercise therapy for acute diseases, exacerbation of chronic diseases and those with surgery and trauma).

Course Code: PHST3001A	
Course Description: Rehabilitation I	
NQF Credits: 24	**NQF Level: 7**

The course includes theory and practical application in the fields of neurology, paediatrics and public health across the life span. The course is designed to integrate basic clinical sciences, pathology, aetiology principles approaches management and treatment techniques. Topics include: neurological rehabilitation - adult (acquired brain injuries such as cerebrovascular accidents and traumatic brain injuries); paediatrics (chronic childhood disability in a community/school setting. This includes a range of neurological conditions); public health and community physiotherapy (introduction to principles of broader health systems and community engagement with a focus in the urban setting as well as to principles of health promotion, application of rehabilitation theory, broader health systems, primary health care and community engagement with a focus in the urban setting).

Course Code: PHST3002A

Course Description: Clinical Physiotherapy I

NQF Credits: 42	**NQF Level: 7**

The course includes practical application and clinical experience in the fields of neurology, paediatrics, public health, neuromusculoskeletal therapy and cardiopulmonary rehabilitation.

Course Code: PHST3003A

Course Description: General Medicine and Surgery

NQF Credits: 12	**NQF Level: 7**

The course covers aspects of general medicine, surgery, gynaecology, orthopaedics, paediatrics, anatomical pathology, neurology and urology related to physiotherapy management. It comprises sections with the objective to introduce and explain key concepts, describe assessment, management, treatment and side effects, handling, precautions and the prognosis of the selected condition. Topics include: general pathology (cardiovascular-, pulmonary-, and endocrine system and central nervous system disorders); obstetrics gynaecology (pregnancy, stress urinary incontinence, hysterectomy and menopause); orthopaedics and neurology (basic concepts in orthopaedics; diseases of bone and joint, Stroke/ CVA; spinal cord injury; traumatic brain injury) and paediatrics (respiratory conditions; infant nutrition and growth; cerebral palsy; neurology; orthopaedics and HIV).

Course Code: PHST3004A

Course Description: Research Methodology Part 1

NQF Credits: 18	**NQF Level: 7**

This course introduces the student to research methodology: comprising problem identification, accessing data bases to foster the development of research questions, critical assessment of literature and evidence, formulation of aims, objectives, selection, sampling , sample size calculation, ethical considerations of research on human subjects, validity and reliability of measuring instruments, statistical considerations and sampling, proposal development , scientific writing and evaluation of the literature.

Course Code: PHST4000A

Course Description: Physiotherapy III

NQF Credits: 18	**NQF Level: 8**

The course includes theory and practical application in the fields of neuromusculoskeletal physiotherapy (orthopaedic manipulative therapy, sport and orthopaedics) as well as acute care (ICU).The course is designed to integrate basic science, pathology, aetiology, management and treatment techniques. Topics include: musculoskeletal therapy (assessment and treatment of vertebral joints and pathology (acute and chronic conditions). Assessment & rehabilitation approaches to musculoskeletal conditions among sports population are also included (screening, sports taping, return to sports protocols and exercise)); orthopaedics (assessment management and treatment of polytrauma, elective surgery including, amputations, spinal fractures and injuries assessment treatment and stabilisation techniques) and acute care (ICU) (application of respiratory and exercise therapy for those with acute (critical) illness in the intensive care unit setting; promotion of health and well-being through exercise therapy for survivors of critical illness).

Course Code: PHST4001A	
Course Description: Rehabilitation II	
NQF Credits: 18	NQF Level: 8

The course includes theory and practical application in the fields of neurology, paediatrics and public health. The course is designed to integrate basic clinical sciences, pathology, aetiology principles approaches management and treatment techniques. Topics include: neurological rehabilitation - adult (spinal cord injuries and degenerative neurological conditions); paediatrics (acute respiratory, orthopaedic, and neurological conditions as well as outpatient follow up of a wide variety of conditions) and public health and community physiotherapy (synthesis of principles of broader health systems with emphasis on the district health system with a focus in the rural setting).

Course Code: PHST4002A	
Course Description: Clinical Physiotherapy II	
NQF Credits: 72	NQF Level: 8

This course is designed to equip the student with real life experience through exposure to patients for the practice of assessment, management treatment and care across the life span and in different contexts (public and private - quaternary, tertiary, district hospitals, urban and rural clinics, schools, rehabilitation centres and community centres. The course includes practical application and clinical experience in the fields of neurology, paediatrics, public health, neuromusculoskeletal therapy and acute care (ICU).

Course Code: PHST4004A	
Course Description: Research Methodology Part II	
NQF Credits: 18	NQF Level: 7

This course prepares the student to conduct research: the course requires that the student prepares a complete and comprehensive research proposal and full literature review and present both in written format. The proposal is also required for assessment in poster format thus exposing the student to how to formulate a poster.

Course Code: PHST5005A	
Course Description: Sport and Exercise Physiotherapy	
NQF Credits: 70	NQF Level: 8

This course explores the integration of advanced knowledge of basic sciences and research evidence on sport and exercise therapy, as well as therapeutic skills into clinical practice in sports. It critically analyses and assesses research related to sports injuries, as well as current evidence, anatomical, pathological and biomechanical concepts and how they are integrated into the assessment and treatment of athletes with Neuromuskuloskeletal conditions. The course further focuses on specific manual and rehabilitation skills effectively to assess and treat a patient with dysfunction of the lumbar, cervical or thoracic spine, shoulder, knee or hip joint or any other soft tissue or orthopaedic conditions.

Course Code: PHST5006A	
Course Description: Neuromusculoskeletal Physiotherapy	
NQF Credits: 70	NQF Level: 8

This course explores the integration of advanced knowledge of basic sciences and research evidence on Neuromusculoskeletal physiotherapy, as well as therapeutic skills into clinical practice. It critically analyses and assesses research related to Neuromusculoskeletal therapy, as well as current evidence, anatomical, pathological and biomechanical concepts and how they are integrated into the assessment and treatment of patients with Neuromusculoskeletal conditions. The course further focuses on specific manual and rehabilitation skills effectively to assess and treat a patient with dysfunction of the lumbar, cervical or thoracic spine, shoulder, knee or hip joint.

Course Code: PHST7000A	
Course Description: Research Methodology	
NQF Credits: 15	NQF Level: 9

The purpose of this course is to enable the learner to critically evaluate the professional literature (the existing evidence base) and prepare an appropriate research proposal, ethics application and funding application. By the end of this course the learner will be able to: critically evaluate the professional literature; critically evaluate the scientific writing; carry out a literature search using the library and computer facilities; design a suitable research proposal ensuring appropriate scientific procedure; write up the research proposal in a format acceptable to the department/ school and faculty; complete an ethics application form and all appropriate information sheets, and consent forms showing an understanding of ethical procedure in research and complete a suitable funding application form.

Course Code: PHST7008A

Course Description: Physiotherapeutic Musculoskeletal Pain Management

NQF Credits: 60 **NQF Level: 9**

The course consists of the clinical application of pain neurophysiology, neuroanatomy and neuropathology. It also considers the clinical application of physiotherapy modalities towards acute, chronic and complex pain conditions using an appropriate biopsycho-social approach to clinical problem-solving. Topics such as the brain and pain, interdisciplinary pain management, pharmocotherapy, cognitive behavioural therapy techniques (pacing principles, relaxation techniques to facilitate anxiety reduction for example), pain education for patients, complex pain syndrome understanding and management, for example motor imagery techniques for complex regional pain syndrome are covered.

Course Code: STHS2000A

Course Description: Exercise Science II

NQF Credits: 48 **NQF Level: 6**

This course covers the following areas of Exercise Science: Measurement and evaluation & Principles of conditioning; Human Growth and development; Recreation and therapeutic recreation; Biomechanics and Kinesiology. At the end of the course students should be able to: perform and interpret a variety of basic physical assessments related to exercise and physical functioning; develop a scientific annual training programme for athletes; demonstrate an understanding of various theoretical approaches to motor development; know and understand factors which influence motor skill development; design and coordinate physical activity and exercise programmes for persons with a physical impairment; understand and apply scientific principles of biomechanics; kinematics and kinetic characteristics of human movement during exercise and sport.

Course Code: STHS3000A

Course Description: Exercise Science III

NQF Credits: 72 **NQF Level: 7**

The course covers areas of Exercise Science, to provide knowledge and ability to apply the knowledge to practice in the following: Applied exercise physiology; Human motor behaviour; Sports related injuries; Psychological aspects of human movement. This content is in line with the learning assumed to be in place for the Honours in Biokinetics as per the Health Professional Council of South Africa and includes practical labs and clinical rotations at the Centre for Exercise Science and Sports Medicine as well as other private and community sites.

Course Code: STHS4002A

Course Description: Health, Wellness and Practice Management

NQF Credits: 18 **NQF Level: 8**

The application of the theoretical knowledge derived in the academic programme, which includes principles of exercise prescription, lifestyle change, lifestyle management, aetiology and pathology of disease states, health and fitness evaluation, as well as orthopaedic rehabilitation principles and return to play assessment.

Course Code: STHS4003A

Course Description: Rehabilitation of Chronic Diseases and Disabilities

NQF Credits: 18 **NQF Level: 8**

This course consists of the following topics - risk stratification methods, aetiology, pathology and incidences of chronic diseases and disabilities. Assessment techniques, interpretation of data and programme design for various chronic diseases. Lifestyle modification programmes and knowledge of disease states. Basic pharmacology related to drug interaction and exercise. Legal and ethical issues related to final phase rehabilitation of chronic disease. Updated research review in this field of study.

Course Code: STHS4004A

Course Description: Special Populations and Disability in Sport

NQF Credits: 18 **NQF Level: 8**

Growth, development, maturation and aging across the lifespan; and how it relates to exercise prescription. Requirements for exercise testing and prescription in special populations such as physical and mental disabilities, children, elderly and during pregnancy. The physiological, biomechanical and perceptual motor challenges to exercise with regard to these populations. Methods for changing exercise behaviour and adherence factors, interpretation of testing data and individualised programme design.

Course Code: STHS4005A

Course Description: Orthopaedic Conditions and Rehabilitation

NQF Credits: 18 **NQF Level: 8**

The course includes risk stratification for ensuring safe participation in exercise rehabilitation. Musculoskeletal tissue properties and their reaction to a variety of different forces and different rehabilitation modes. Different orthopaedic injuries with respect to aetiology, pathology, diagnosis and clinical management. The design of appropriate final phase rehabilitation programmes. The role of pharmacological agents in orthopaedic rehabilitation.

Course Code: STHS4007A

Course Description: Biokinetics Honours Research Methodology

NQF Credits: 18 **NQF Level: 8**

The application of theoretical knowledge, which includes principles of research methods, preparing students for proposal writing and the interpretation and presentation of data, and concluding with writing a scientific research report.

Course Code: STHS4009A

Course Description: Strength and Conditioning Physiology

NQF Credits: 15 **NQF Level: 8**

This course explores the biomechanics of, and adaptations and endocrine responses to resistance training. It further analyses the acute and chronic adaptations to aerobic and anaerobic training and explores functional training, its prescription and implementation as well as age and gender related differences to training adaptations and their implications will also be discussed.

Course Code: STHS4010A

Course Description: Athlete Testing, Evaluation and Monitoring

NQF Credits: 15 **NQF Level: 8**

This course explores techniques, tests and methodologies of athlete flexibility, strength, power, speed, agility, and aerobic testing. It investigates the physiological effects of training stress and measures of fitness and fatigue. It further considers current athlete monitoring tools and guidelines.

Course Code: STHS4011A

Course Description: Strength and Conditioning Programme Design

NQF Credits: 20 **NQF Level: 8**

This course explores programme design for warm-up, flexibility, resistance, speed, agility, plyometric and endurance training. It further analyses in-depth exercise techniques, training facility and organisation.

Course Code: STHS4012A

Course Description: Periodisation Training for Sports

NQF Credits: 20 **NQF Level: 8**

This course explores the principles of training periodisation. It provides an in-depth analysis of the phases of exercise training in an annual training plan. It further investigates the concepts of tapering and peaking.

Course Code: STHS4013A

Course Description: Concepts and Applications of the Exercise Sciences

NQF Credits: 15 **NQF Level: 8**

This course introduces key concepts in the Exercise Sciences. It provides an in-depth analysis of bio-energetics and training including its application to sports and athletic conditioning. It further analyses the acute and chronic adaptations to aerobic and anaerobic training and explores key concepts with respect to psychology and nutrition for athletic preparation and performance.

Course Code: STHS7000A

Course Description: Wellness, Health Promotion and Rehabilitation

NQF Credits: 10 **NQF Level: 9**

The student will differentiate between different training programmes with regards to expected benefits, develop individualised training programmes, and list the expected physiological adaptations derived from such programmes. Corporate wellness principles and programme implementation, lifestyle evaluation, client goals and promotion of health with disease prevention strategies. Rehabilitation of low risk patients.

Course Code: STHS7001A

Course Description: Cardiorespiratory Physiology and Exercise

NQF Credits: 10 **NQF Level: 9**

Using applied anatomy and physiology, the course addresses acute and long-term central and peripheral cardiovascular adaptations to exercise and the response to acute and long-term adaptations to the respiratory system during exercise and training. It also addresses cardiorespiratory.

Course Code: STHS7002A

Course Description: Exercise, Immunity and the Environment

NQF Credits: 10 **NQF Level: 9**

Using applied principles of anatomy and physiology, the course addresses exercise and the immune system: a paradoxical response. The effects of exercise and training on innate immunity and specific immune responses. The homeostasis of fluid and electrolyte balance during exercise, dehydration and overhydration will be discussed. Factors affecting gastrointestinal function during exercise, for example gastric emptying, will be covered. The course covers aspects of environmental factors related to exercise and training, which includes heat and cold, altitude, diving physiology and time zone travel.

Course Code: STHS7003A

Course Description: Muscle Physiology and Metabolism

NQF Credits: 10 **NQF Level: 9**

This course addresses the structure and function of skeletal muscle, and it's adaptation to the effects of exercise. The biochemistry of muscle physiology and the pertinent metabolic pathways as related to exercise. Structure and function of endocrine organs and the effects of exercise and training on the endocrine function and maintenance of homeostasis. The value of neuromuscular physiology and it's implication for sport.

Course Code: STHS7004A

Course Description: Nutrition, Healing and Rehabilitation

NQF Credits: 10 **NQF Level: 9**

Using applied principles related to pathophysiology and neuromuscular knowledge, the programme incorporates the following: nutritional principles for elite sportspersons, justify nutritional issues as related to different populations, including selected diseased states, dietary supplementation for sports. Debate ergogenic effects of drugs in sports and effects on sports performance; healing processes relative to specific musculoskeletal structures. Rehabilitation principles related to recovery after injury. Principles of initial management of injuries and the goals of rehabilitation.

Course Code: STHS7005A

Course Description: Research Methods

NQF Credits: 10 **NQF Level: 9**

The application of theoretical knowledge, which includes principles of research methods, preparing students for proposal writing and the interpretation and presentation of data, and concluding with writing a scientific research report.

Course Code: STHS7007A

Course Description: Management of Upper Body Injuries

NQF Credits: 10 **NQF Level: 9**

To provide the student with a sound knowledge of the diagnosis and management of sports related musculoskeletal injuries, both acute and chronic, of the upper body (structures and limbs from the waist up) in order to understand and apply assessment skills and diagnostic criteria and intervention strategies for upper body injuries.

Course Code: STHS7008A

Course Description: Management of Lower Body Injuries

NQF Credits: 10 **NQF Level: 9**

To provide the student with a sound knowledge of the diagnosis and management of sports related musculoskeletal injuries, both acute and chronic, of the lower body (structures and limbs from the waist down) in order to understand and apply assessment skills and diagnostic criteria and intervention strategies for lower body injuries. The course syllabus will consist of mechanism of injury, acute and chronic, approach and diagnostic techniques, and management strategies for the following regions: lumbar spine, hip, thigh & groin, knee, lower leg, ankle and foot.

Course Code: STHS7009A

Course Description: Clinical Practice

NQF Credits: 10 **NQF Level: 9**

To provide the student with the skills to apply the theoretical knowledge and principles of diagnosis, treatment and management of chronic disease states using exercise prescription; and the rehabilitation of sports injuries and the follow-up thereof. The application of the theoretical knowledge derived in the academic programme, which includes principles of exercise prescription, lifestyle change, lifestyle management, aetiology and pathology of disease states, health and fitness evaluation, as well as orthopaedic rehabilitation principles and return to play assessment.

Course Code: STHS7010A

Course Description: Exercise Testing and Advanced Exercise Principles

NQF Credits: 10 **NQF Level: 9**

The student will gain the theoretical knowledge and skills to test and train elite and recreational athletes. The course covers diverse exercise training methodology such as advanced resistance training, HIIT, complex training using post activation potentiation, sports specific speed and agility workouts and tactical metabolic training. Field testing in a team sports environment as well as advanced lab type assessments such as VO2max and lactate threshold will also be covered.

Course Code: STHS7011A

Course Description: Advanced Coaching, Conditioning, Sports Vision and Optimisation of Sports Performance

NQF Credits: 10 **NQF Level: 9**

The student will have advanced knowledge in periodisation, superset principles and its relationship to super compensation, being the body's ability to adapt to higher intensities of training. Overtraining and burnout phenomenon and its classification as related to the principles of training and programme design. The use of motor learning, sport psychology and sports vision in the optimal improvement of performance. Biological growth and development, hereditary, neurological and physiological changes that occur during growth and development.

Course Code: STHS7012A

Course Description: Laboratory Practicum

NQF Credits: 10 **NQF Level: 9**

The purpose of this course is to ensure that the student will become familiar with selected evaluation procedures for clinical exercise testing of patients with a variety of orthopaedic injuries or chronic diseases, interpretation of data and programme design based on data interpretation.

Course Code: STHS7016A

Course Description: Advanced Chronic Disease Rehabilitation

NQF Credits: 10 **NQF Level: 9**

To introduce students to the most advanced and updated research in chronic disease prevention and rehabilitation. Benefits and risks associated with exercise and lifestyle changes in the treatment of patients with specific clinical conditions; such as diabetes, hypertension, and cardiac disease. This course further addresses acute and chronic medical conditions in active people and athletes. The course syllabus will update students to the advanced and most up to-date methods in exercise design and lifestyle management in patients with chronic disease. It will further address acute and chronic medical conditions in athletes, such as infectious illness, and chronic diseases in elite and other athletes.

Course Code: STHS7017A

Course Description: Advanced Orthopaedic Rehabilitation

NQF Credits: 10 **NQF Level: 9**

To provide the ability for students to master advanced skills in the diagnosis, evaluation and design of physical rehabilitation programmes in patients with orthopaedic or sport related injuries. This course will cover the aetiology and pathology of orthopaedic conditions including those related to sport and exercise. Advanced understanding of rehabilitation procedures as related to injuries and the design of rehabilitation programmes using the most up to date methods and modes for rehabilitation. Assess sports persons for sport readiness participation post injury rehabilitation.

Course Code: STHS7019A

Course Description: Research Methodology for Health Sciences

NQF Credits: 6 **NQF Level: 9**

This course assists students with designing their research project. The student will differentiate between different training programmes with regards to expected benefits, develop individualised training programmes, and list the expected physiological adaptations derived from such programmes. Corporate wellness principles and programme implementation, lifestyle evaluation, client goals and promotion of health with disease prevention strategies. Rehabilitation of low risk patients.

Course Code: STHS7020A

Course Description: Child Development and Play: Birth to 18 years

NQF Credits: 30 **NQF Level: 9**

This course provides the background theories of child development from birth to 18 years of age and includes the development of the premature infant. It considers all facets of development (motor, cognitive, speech, emotional, behavioural) including factors affecting development both positively and negatively. The course covers the definitions and functions of play as well as classic and contemporary theories of play within the social, developmental, environmental and health context in which children find themselves.

Course Code: STHS7021A

Course Description: Ethics – Ethical, Professional and Cultural Issues

NQF Credits: 15 **NQF Level: 9**

This course reviews the basic concepts of biomedical ethics and professionalism and encourages participants to apply these constructs to their own areas of clinical practice. It discusses social cultural diversity and the concept of cultural competency within diverse inter-professional settings and debates specific ethical issues of working with vulnerable children and families from a variety of backgrounds.

Course Code: STHS7022A	
Course Description: Family Systems, Loss and Death	
NQF Credits: 15	**NQF Level: 9**

This course provides insight into historical and contemporary theories of family structure and function. It discusses family dynamics including broader societal perspectives of resilience, diversity and cultural variance. The course also considers adaptations of family structure and dynamics during times of transition and challenge with emphasis on the vulnerable child. The impact of loss will be discussed within the social, cultural and religious context of family. Coping styles and techniques will be linked to the developmental stages of the child.

Course Code: STHS7023A	
Course Description: Child Life Specialty	
NQF Credits: 30	**NQF Level: 9**

This course covers the core elements of a child life programme. These include documentation, scope or practice, impact of illness, family centred care and therapeutic play and preparation. The course also covers the assessment of the child and family needs, the use of technology in child life, intervention, communication and building therapeutic relationships as well as legacy building.

Faculty of Science

School of Animal, Plant and Environmental Sciences

Course Code: APES1000A	
Course Description: Introduction to Medical Science	
NQF Credits: 18	**NQF Level: 5**

This course is a foundational half-year course in biology for all therapeutic sciences' students. It provides basic skills and content, often not stressed in secondary school years, to enable students embark on a successful four-year medical voyage. The course introduces students to the human cell and its sub-divisions and how they work interdependently to ensure bodily functions are achieved and maintained. Topics covered include cell and molecular biology, histology, human physiological systems and neurobiology. Using lectures, laboratory sessions and tutorials the relationships between structure and function are stressed; and gaps in students' prior knowledge clarified.

Course Code: APES1001A	
Course Description: Introduction to Medical Science	
NQF Credits: 36	**NQF Level: 5**

This full year course introduces first year students to important biological sciences' concepts which are key to understanding the basic medical sciences. The course content has a strong human biology focus and includes a variety of topics ranging from cell biology, ecology to evolution. The course also introduces students to theoretical content related to embryology, histology and human physiological systems (cardiovascular, nervous, endocrine, nervous and respiratory systems) all of which forms an important background for further studies in anatomical sciences, human physiology and molecular medicine. The practical component of the course equips students with basic laboratory skills; basic dissection techniques; data analysis, interpretation and presentation and report writing skills.

School of Chemistry

Course Code: CHEM1028A

Course Description: Chemistry

NQF Credits: 18 **NQF Level: 5**

This course focuses on basic concepts in the study of matter, the periodic table, atomic and molecular structures, stoichiometry, solution chemistry, chemical bonding, basic organic chemistry, states of matter, equilibrium, acids and bases, chemical kinetics, thermochemistry and thermodynamics. The application of these core concepts enables students to gain an understanding of the basic chemistry principles applied to the health sciences. In addition, the laboratory component of the course enables students to understand key aspects underlying important laboratory procedures.

Course Code: CHEM1029A

Course Description: Chemistry

NQF Credits: 18 **NQF Level: 5**

This course focuses on basic concepts in the study of matter, the periodic table, atomic and molecular structures, stoichiometry, solution chemistry, chemical bonding, basic organic chemistry, states of matter, equilibrium, acids and bases, chemical kinetics, thermochemistry and thermodynamics. The application of these core concepts enables students to gain an understanding of the basic chemistry principles applied to the health sciences. In addition, the laboratory component of the course enables students to understand key aspects underlying important laboratory procedures.

Course Code: CHEM1048A

Course Description: Chemistry

NQF Credits: 36 **NQF Level: 5**

This is an existing full year course that focuses on core content which enables students to gain an understanding of basic chemistry principles applied to the health sciences, as well as building their overall cohesive scientific approach. The course covers concepts in the study of matter, stoichiometry; electronic structure of atoms; chemical bonding; gases; solutions; kinetics; equilibrium; acids and bases; thermodynamics; electrochemistry and organic chemistry. The application of these concepts to the health sciences forms an integral part of all sections of the course. In addition the course presents some key concepts that enable students to understand principles underlying important laboratory procedures.

School of Physics

Course Code: PHYS1008A

Course Description: Physics

NQF Credits: 18 **NQF Level: 5**

This course introduces the student to a range of basic physics topics that are fundamental to an understanding of the human body and a selection of devices and techniques used in both therapy and diagnostics. These topics include: mechanics, properties of matter, thermal physics, waves and sound, geometrical optics, electrostatics, direct current, and atomic and nuclear Physics. The course also provides the student with an opportunity to develop numeracy and basic problem solving skills. The course includes a laboratory component which addresses the practical aspects of physics and exposes the student to scientific thinking.

Course Code: PHYS1009A

Course Description: Physics

NQF Credits: 18 **NQF Level: 5**

This course introduces the student to a range of basic physics topics that are fundamental to an understanding of the human body and a selection of devices and techniques used in both therapy and diagnostics. These topics include: mechanics, properties of matter, thermal physics, waves and sound, geometrical optics, electrostatics, direct current, and atomic and nuclear Physics. The course also provides the student with an opportunity to develop numeracy and basic problem solving skills. The course includes a laboratory component which addresses the practical aspects of physics and exposes the student to scientific thinking.

Course Code: PHYS1024A	
Course Description: Physics	
NQF Credits: 36	NQF Level: 5

This course introduces the student to a range of basic physics topics that are foundational to an understanding of the functioning (and malfunctioning) of the human body, and also of some of the devices and techniques used in both therapy and diagnostics. These topics include: mechanics, properties of matter, thermal physics, waves and sound, geometrical and physical optics, electrostatics, direct current, electromagnetism, alternating current and atomic & nuclear physics. The course also provides the students with an opportunity to develop their numeracy and basic (heuristic) problem-solving skills Also included is a laboratory component which addresses the practical aspects of physics and exposes the students to scientific thinking..

Faculty of Humanities

School of Human and Community Development

Course Code: PSYC1004A	
Course Description: Basic Principles of Individual and Group Psychology	
NQF Credits: 18	NQF Level: 5

This course provides an introduction to psychology and explores different perspectives on human behaviour through western, African and eastern thought. The focus is on historical development of Psychology as a science, contemporary and indigenous approaches to psychotherapy, theoretical explanations of learning, and how knowledge in psychology is generated through research methods. The course aims to enable students to apply their knowledge of psychology to a South African context with relevance to the health sciences. It also aims to develop academic reading, writing and critical thinking skills through encouraging an appreciation for diverse explanations and contradictory evidence.

Course Code: PSYC1007A	
Course Description: Introduction to Psychology I	
NQF Credits: 18	NQF Level: 5

Selected issues at an introductory level drawn from topics such as the following: History and systems and theory of psychology, human information processing, learning and development, individual differences, abnormal psychology, biological and neuropsychology, health psychology, social and community psychology. Not all of these topics are covered every year.

Course Code: PSYC1008A	
Course Description: Psychological Foundations of Health	
NQF Credits: 18	NQF Level: 5

The course provides an broad introduction to the fields of psychology, philosophy of medicine and logic and critical thinking. Integrating knowledge from these fields around a central theme of health and wellness. The course introduces the psychosocial basis of health and develops the skills of argumentation, reasoning, critical reading and writing as well as self-reflection. It applies the principles and theories of psychology to the health sciences and the role of heredity and environment in influencing health and human behaviour.

Course Code: PSYC2002A	
Course Description: Health Psychology	
NQF Credits: 24	NQF Level: 6

This module is designed to develop a broad understanding of the role of psychosocial factors involved in the prevention and treatment of illness, the promotion and maintenance of health and well-being, and workplace issues that may affect health practitioners as agents in the helping profession. Against this background the course also explores the intersection of health matters with issues of gender, ethnicity and socio-economic factors.

Course Code: PSYC2009A

Course Description: Research Design and Analysis

NQF Credits: 24 **NQF Level: 6**

The course is designed to develop basic competence in conceptualising human science research, designing simple research, and using and understanding basic techniques in measurement and in the analysis of research data. There are two components to the course, namely Research Analysis and Research Design & Psychometrics. The former provides a foundation in descriptive and inferential statistics while the latter introduces the fundamental concepts in the process of designing research, both quantitative and qualitative research.

School of Social Sciences

Course Code: SOCL1012A

Course Description: Human Behavioural Sciences

NQF Credits: 18 **NQF Level: 5**

This course introduces the student to the social factors related to health and disease. Part one introduces key concepts in Health Sociology and expands on the relationship between health and the social as well as on culture and health with particular emphasis on inter-cultural encounters. It provides an understanding of the relationship between social inequality and health in the South African context. Part two introduces a critical analysis of the relationship between bodies, gender and illness. This course aims to develop in the students an understanding and sensitivity to both, the social-cultural dimension of health-related phenomena and the implications these dimensions have for their professional role.

Course Code: SOCL1016A

Course Description: The Sociological Foundations of Health

NQF Credits: 18 **NQF Level: 5**

This full semester course will introduce the students to conceptual, theoretical and argumentative topics in health promotion, culture and health, social inequalities, medicalisation, chronicity and embodiment of health, illness and disease. The course will provide a broad introduction to the field of the sociology and anthropology of health, and the systematic and scientific study of health behaviour and outcomes, the underlying theories and framing health through sociological knowledge. The main focus of the course will be the framing of introductory principles of sociology for the Health Sciences to understand the relationship between health and society. The teaching of this course will be closely integrated with psychology using learning activities which include formal lectures, tutorials, and fieldtrip.

Faculty of Engineering and the Built Environment

School of Electrical and Information Engineering

Course Code: ELEN1008A

Course Description: System Dynamics for Health Sciences

NQF Credits: 18 **NQF Level: 5**

This course teaches the fundamentals of systems and specifically System Dynamics in the context of healthcare. It covers the following: general fundamentals of systems; principles of system dynamics; causal loop diagrams; level rate diagrams; system architecture; system behaviour; system dynamics-based simulation software; medical, biological and other applications of system dynamics.

Course Code: ELEN1009A

Course Description: System Dynamics for Medical Students

NQF Credits: 18 **NQF Level: 6**

This course covers the fundamentals of systems and system dynamics in the context of health care. Topics include: Causal Loop Diagrams, Level Rate Diagrams, System architecture and System behaviour. The course uses System Dynamics-based simulation software to apply the principles of system dynamics to a range of real life examples of medical and socio-economic aspects of health encountered by medical practitioners.