UNIVERSITY OF JOHANNESBURG

FACULTY OF HEALTH SCIENCES

RULES AND REGULATIONS

2022

UNDERGRADUATE AND POSTGRADUATE PROGRAMMES

www.uj.ac.za

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A GENERAL INFORMATION

Note

All Faculty Rules and Regulations should always be read in conjunction with the Academic Rules and Regulations of the University, as well as the general Rules and Regulations per Department per programme.

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HS *ii* **GENERAL ENQUIRIES FOR THE FACULTY OF HEALTH SCIENCES**

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HS *iii* **MINIMUM PROGRAMME ADMISSION REQUIREMENTS**

Award yourself points for each Grade 11 or Grade 12 subjects that you have passed according to the table provided below.

How to determine your Admission Point Score (APS)

An Admission Point Score (APS), explained below, has been developed for the National Senior Certificate (NSC) and the Independent Examinations Board (IEB) based in the achievement rating of each subject. The total APS is the sum of the achievement ratings of the six school subjects. Life Orientation is not counted in the calculation of the APS.

Rules to be implemented with this development.

In order to determine the Admission Point Score (APS) the following principles need to be taken into consideration:

- Applicants with the following results, WAEC, Diploma or Exam D'Etat, Certificado de Habilitscoes Literarias, Ensino Medio and Baccalaureat should be linked with the Ordinary Level (O) Grades on ITS.
- Applicants with the following results, HIGCSE, NSSC (HL), AS Level, IB (SL) and KCSE should be linked to the South African NSC (N) Grades on ITS.
- Applicants who have set for either A Level of IB (HL) should be linked to the (A) Grades on ITS.

ADMISSION SCORE TABLE

APS	NATIONAL			INTERNATIONAL										
	NSC (IEB/SACAI)	SC HG (M-SCORE)	SC SG (M-SCORE)	HIGCSE/NSSC	IGCSE/NSSC (OL)	AS LEVELS	A LEVELS	IB (HL)	IB (SL)	WAEC	KCSE	Diplome/Exam D' Etat	CHL/EM	Baccalaureate
10							A	7						
9							B	6						
8							C	5						
7	7 (80-100%)	A		1		A	D	4	7		A			
6	6 (70-79%)	B	A	2		B	E	3	6		B			
5	5 (60-69%)	C	B	3	A	C		2	5	A	C	80-100%	16-20	16-20
4	4 (50-59%)	D	C	4	B	D		1	4	B	D	70-79%	14-15	14-15
3	3 (40-49%)	E	D		C	E			3	C	E	50-69%	10-13	10-13
2	2 (30-39%)	F	E		D/E				2	D/E	F	30-49%	8-9	8-9
1	1 (0-29%)	G	F		F/G				1	F/G	G	0-29%	0-7	0-7

ABBREVIATIONS

NSC - National Senior Certificate (completed Grade 12 in and after 2008)
SC HG - Senior Certificate Higher Grade (completed Grade 12 before 2008)
SC SG - Senior Certificate Standard Grade (completed Grade 12 before 2008)
IEB - Independent Examination Board
HIGCSE - Higher International General Certificate of Secondary Education
IGCSE - International General Certificate of Secondary Education
NSSC(HL) - Namibia Senior Secondary Certificate (Higher Level)
NSSC(OL) - Namibia Senior Secondary Certificate (Ordinary Level – Cambridge)
AS - Advanced Subsidiary Level (Cambridge)
A Level - Advanced Level (Cambridge)
IB(HL) - International Baccalaureate Schools (Higher Levels)
IB(SL) - International Baccalaureate Schools (Standard Levels)
WAEC - West African Examination Council
KCSE - Kenya Certificate of Secondary Education
Diplome/Exam D'Etat - Diplome d'Etat or d'Etudes Secondaire du Cycle
CHL/EM - Certificado de Habilitacoes Literarias (Mozambique) / Ensino Medio (Angola)
Baccalaureate - Gabonese School Leaving

Points are awarded for the six symbols on your Grade 11 or Gr 12 report, See example below.

School Subject	Marks	APS
First Language (language of teaching and learning)	65%	5
Additional recognized language	71%	6
Mathematics or Mathematical Literacy	61%	5
Accounting	68%	5
History	81%	7
Geography	86%	7
Total		**35**

Compliance with the minimum programme admission requirements does not guarantee a place in a programme. The General Academic Regulations of the University applies in each case.

HS *iv* EXEMPTIONS

All students who transferred from another Higher Education Institution should apply for exemptions from modules completed successfully at that Institution. Application forms are available from Faculty Administration. The completed form with relevant documentation must be submitted **within 30 days of registration**. Exemptions are applied for before or at the time of registration. Closing date for submission is the end of **March** each year.

Students should in particular take note of the following general **Academic Regulations (AR8)** of the University:

A Head of Department may, in consultation with the Executive Dean or his/her delegated authority in accordance with a list of exemptions approved by the Executive Dean, grant exemption from and award a credit for a module, of which the content of the module was at least 80% the same, to students on the grounds that they have passed a relevant module at the University or at another accredited higher education institution.

Exemption from and awarding of credit for modules, as stipulated in AR 8.1, may not be granted for more than half the number of modules required in an undergraduate programme in which exemption and recognition are requested. A faculty may determine rules and regulations in this regard in agreement with the existing Faculty Rules and Regulations, and subject to approval by Senate. At least half the number of semester modules, including the exit level modules where appropriate, should be passed at the University for the University to award the diploma or confer the degree. The Executive Dean or his/her delegated authority concerned, in consultation with the Registrar, may give permission to the student (for legitimate reasons) to complete such exit level module(s) at another HEI in South Africa, or abroad in accordance with the academic record concerned. For the purposes of this sub-regulation, a year module counts as two semester modules, and one term module counts as half a semester module.

Only in exceptional circumstances may the Executive Dean or his/her delegated authority grant exemption from an exit level or semester core module that has been passed at another institution or in another programme.

Exemption from or credit for a module may only be granted for one further programme in addition to the programme in which the module was originally completed.

Students may not register simultaneously for two programmes at the University, or for a programme or module at another university, concurrently with their registration at the University without prior written consent of the Executive Dean of the relevant faculty/college, in consultation with the Registrar and the relevant authority of the other university (**AR5.1.18**).

HS *v* RECOGNITION OF PRIOR LEARNING:

The Faculty of Health Sciences follows the University policy on the Recognition of Prior Learning. This policy is available on the University of Johannesburg website (www.uj.ac.za).

HS *vi* ASSESSMENT:

Assessment in all programmes takes place in accordance with the University policy on assessment. This policy is available on the University of Johannesburg website (www.uj.ac.za). The criteria for assessment in all modules are available in learner guides.

HS *vii* DISTINCTION CRITERIA

Obtaining a qualification (AR11.6)
Students obtain a qualification if they have passed every module prescribed for a programme and have successfully completed service or work-integrated learning, where applicable. It is the student's responsibility to ensure all prescribed modules, service or work-integrated learning are completed.

A qualification is awarded or conferred with distinction if the requirements below are met:

(a) Duration:

(i) Students must complete an undergraduate programme in the minimum period of study specified for the programme (**AR10-Table 3**), unless the Executive Dean has approved a longer period of study for legitimate reasons.
(ii) Students must complete an advanced diploma, a postgraduate diploma or an honours qualification, within one year if registered full time and within two years if registered part time.
(iii) Students must complete a master's qualification within the maximum period allowed for the master's programme.
(iv) Online students must complete their qualification within the maximum period as per (**AR10-Table 3**).
(v) Online students must complete an advanced diploma, a postgraduate diploma or an honours qualification within three years.

(b) Average final mark for the qualification:

(i) Students must achieve a weighted and/or proportional calculated average final mark for an undergraduate qualification of at least 75% as determined by the Faculty Board, approved by Senate and contained in the Faculty Rules and Regulations.
(ii) Students must achieve an average final mark for an advanced diploma, a postgraduate diploma or an honours qualification, of at least 75% calculated by weighting the final marks for all the modules comprising the qualification in accordance with the NQF credit values allocated to the modules.
(iii) Students for a master's qualification by dissertation must achieve a final mark of at least 75% for the dissertation.
(iv) Students for a master's qualification by coursework must achieve an average final mark for the qualification of at least 75% calculated by weighting the average final marks for all the coursework modules and the final mark for the minor dissertation in accordance with the credit values allocated to all the coursework modules and the minor dissertation respectively (for example, if the credit value of the minor dissertation represents 40% of the total credit value of the qualification, the average final mark for the qualification will be weighted in the proportion of 40 for the minor dissertation and 60 for all the coursework modules).
(v) Decimal marks may be rounded upwards or downwards in accordance with the decision taken by the Faculty Assessment Committee concerned.

(c) A student must never have failed a module as a first attempt in the relevant programme.

(d) A student must have obtained a minimum mark of 65% in every prescribed module at NQF level 6 for Diplomas, NQF level 7 for Advanced Diploma/BTech and Degrees, NQF level 8 for Professional Bachelor Degrees, Postgraduate Diploma and Honours Degree and NQF level 9 for Masters Degrees and, in the case of a masters qualification by coursework, in the minor dissertation as well.

(e) Students must have been registered for the full curriculum as prescribed for each academic year on the full-time or part-time basis, as the case may be.

(f) If students are transferred from another Higher Education Institution in the same qualification to UJ, the same requirements as stated shall apply.

(g) If students change programmes within UJ, only the modules related to the new programme will be taken into consideration in calculating whether the qualification is obtained with distinction.

HS *viii* EXPOSURE TO INFECTIOUS AGENTS

In terms of the UJ policy adopted regarding students who are exposed to infectious agents, students who will interact with live patients in a clinical or related environment within the Faculty of Health Sciences are required to be vaccinated against Hepatitis B due to the risk of exposure. During orientation and or at the first contact session every student who will interact with live patients in a clinical or related environment will be issued with a letter which will inform them about the importance of immunization against Hepatitis B as well as the fact that it is mandatory to be vaccinated. Students are to sign for receipt for the letter and a copy will be held on their student file.

At the start of the second term students would need to sign a document stating that they have previously been exposed or received/commenced these vaccinations. By virtue of the signature on that document students confirm that they have been previously exposed/vaccinated/commenced vaccination against Hepatitis B and that they understand that false declaration constitutes fraud and that they may face disciplinary actions and medical consequences that may arise from a false declaration.

Potentially exposed students who have not started with or been exposed / vaccinated against Hepatitis B when commencing their studies in the Faculty of Health Sciences may have it done at the Primary Health Services situated on the various campuses. Vaccinations need to commence within the first month after registration. Please note that all the costs for these vaccinations are to be paid for by the student. Students may visit the Primary Health Care clinic on campus to establish the cost of the vaccinations and the procedure that needs to be followed. These vaccinations may also be done at any other registered medical provider which offers this service. In some instances, medical aid may cover the cost. Hepatitis B injections commence and are then repeated 1 month and 6 months later. Blood tests would need to be done 1 month after the last injection to establish whether the body had developed sufficient immunity against Hepatitis B. If not, booster dosages would need to be administered and the blood tests repeated. These blood tests would need to be done by a private laboratory at the cost of the student. Students who were previously exposed or received the vaccinations, would also need to determine with a blood test whether sufficient immunity has been developed against the disease.

It is strongly recommended that students who work with patients be examined for Tuberculosis before commencement of their studies and also be vaccinated against Hepatitis A, Tetanus, Meningitis, Varicella, Mumps, Measles, Rubella (if not exposed or vaccinated to these diseases before) and annually for influenza.

The University will not be held liable for any consequences resulting from an accidental exposure to any of the above infectious agents by the student.

The University has insurance with Marsh for accidental exposure to HIV due to work integrated learning. The necessary form will be issued to students for signature at the commencement of each year of study.

Everybody on a UJ campus, including students, have to comply with the COVID-19 regulations and safety measures of UJ.

HS *ix* AFRICAN INSIGHTS / ARTIFICIAL INTELLIGENCE IN THE 4IR

It is compulsory that undergraduate students complete one of the below online modules:

1. African Insights introduces students to the intellectual traditions and debates in Africa. This module is for all undergraduate students of the Faculty or College. Upon completing the module, a students' academic record will reflect the successful completion of the module. These credits do not count towards the completion of a qualification. This is a fully online module that is offered over thirteen weeks. All student support will take place online.

2. Artificial Intelligence (AI) in the 4IR introduces undergraduate students to the applications and implications of the AI in the society, and the future of work in the Fourth Industrial Revolution (4IR). This module is for all undergraduate students of the Faculty or College. Upon completing the module, a students' academic record will reflect the successful completion of the module. These credits do not count towards the completion of a qualification. This is a fully online module that is offered over thirteen weeks. All student support will take place online.

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HS *xi*

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B FACULTY REGULATIONS

These regulations should be read in conjunction with the Academic Regulations of the University of Johannesburg.

HS1.0 DEPARTMENT OF BIOMEDICAL SCIENCES

HS1.1 BACHELOR OF HEALTH SCIENCES IN MEDICAL LABORATORY SCIENCES (B9B01Q)

Duration of programme
Full-time: Minimum 4 years and Maximum 6 years
NQF Level 8, 480 Credits

HS1.1.1 Purpose

The purpose of the Bachelor of Health Sciences in the Medical Laboratory Sciences programme is to produce graduates competent to apply theoretical and practical fundamental knowledge and skills in the fields of medical science and research. The programme provides extensive theoretical knowledge and practical training about various related modules and experiential training. The outcome of these combined offerings results in the achievement of purpose of the qualification as stipulated in the curricula. This qualification leads to registration with the Health Professions Council of South Africa as a Medical Laboratory Scientist.

HS1.1.2 Outcomes

1. Laboratory operations in clinical diagnostic laboratories and related fields are performed in compliance with statutory requirements for ethics, safety and quality assurance and with accuracy and precision. Specified laboratory equipment is maintained and used according to SOPs.
2. Laboratory results are interpreted correctly and integration of laboratory tests with pathophysiological conditions (Pathology) in a specific field of specialisation in accordance with statutory and operations requirements is achieved.
3. Supervisory, management and research skills are developed.
4. Critical evaluation of current and new trends in technology to improve practices and to solve problems in a variety of contexts is developed.
5. Evaluation of new information, concepts and evidence from a range of sources and the academic skills, values and attributes necessary to undertake independent research in the field of Medical Laboratory Sciences, in compliance with legislated and ethical research principles are acquired.
6. Management and entrepreneurial skills in the context of Medical Laboratory Sciences are applied.
7. Work behaviour is satisfactory with regard to time keeping, following of instructions, professional behaviour etc.

HS1.1.3 Rules of access and admission requirements

A Senior Certificate with Matriculation exemption, or an equivalent qualification at an equivalent standard as determined by a Status Committee, with the following compulsory subjects:

1. Biology with at least a Higher Grade C or Standard Grade B symbol.
2. Physical Science with at least a Higher Grade D or Standard Grade C symbol.
3. Mathematics with at least a Higher Grade D or Standard Grade C symbol.
4. English with at least a Higher Grade C or Standard Grade B symbol.

A National Senior Certificate (NSC) - APS Score with minimum requirements as shown below:
(Exclude Life Orientation when calculating APS)

Minimum APS	Language of teaching and Learning (English)	Mathematics	Mathematical Literacy	Physical Sciences	Life Sciences
30	**5**	**4**	**Not accepted**	**4**	**5**

Selection criteria

Selection is based on academic merit, and an interview (if required).

HS1.1.4 Pass requirements

1. Students are promoted to a subsequent semester of study if they have met the prerequisites.
2. Students retain credit for all modules passed.
3. Students may not register for module combinations that lead to timetable or examination clashes.
4. Students may not do Integrative Medical Laboratory Sciences III (Work Integrated Learning) until they have passed all first semester 3rd year modules.
5. Students are promoted to the second semester if they have passed at least 2 of the prescribed modules.
6. Students must pass at least 60% of the 1st year modules, including HAPDBY1 in order to qualify for readmission.

HS1.1.5 Curriculum

First year		
Module name	**Module code**	**Prerequisite code**
Semester one		
Statistical Methods 1A	SMT01A1	
Communication for Medical Laboratory Sciences 1A	CMLSBA1	
Introduction to Medical Laboratory Sciences 1A	IMLSBA1	
Computer Skills	CSL01A1	
Chemistry 1A	CEMH1A1	
Semester two		
Cell Biology 1	CLBHBB1	
Physics 1B	PHYH1B1	

Introduction to Medical Laboratory Sciences 1B	IMLSBB1	
Immunology 1	IMMHBB1	
Year modules		
Human Anatomy, Physiology and Disease 1	HAPDBY1	
Second year		
Module name	**Module code**	**Prerequisite code**
Semester one		
Clinical Chemistry 2A	CLCHBA2	CLBHBB1 HAPDBY1
Haematology 2A	HAEHBA2	HAPDBY1
Histopathology 2	HTPHBA2	HAPDBY1
Medical Microbiology	MDMHBA2	HAPDBY1
Immunohaematology 2	IMHHBA2	IMMHBB1 HAPDBY1
Semester two		
Clinical Chemistry 2B	CLCHBB2	CLCHBA2
Cytogenetics 2	CTGHBB2	HAPDBY1
Cytopathology 2	CTPHBB2	HAPDBY1
Haematology 2B	HAEHBB2	HAEHBA2
Medical Microbiology 2B	MDMHBB2	MDMHBA2
Third year		
Module name	**Module code**	**Prerequisite code**
Semester one		
Clinical Chemistry 3	CLCHBA3	CLCHBB2
Cytopathology 3	CTPHBA3	CTPHBB2
Haematology 3	HAEHBA3	HAEHBB2
Integrative Medical Laboratory Sciences IIIA (Clinical Practice Theory)	IMLHBA3	CLCHBB2 CTGHBB2 CTPHBB2 HAEHBB2 MDMHBB2

Medical Microbiology 3 (Virology, Mycology, Parasitology)	MDMHBA3	MDMHBB2
Semester two		
Integrative Medical Laboratory Sciences IIIB (Clinical Practice)	IMLHBB3	IMLHBA3 CLCHBA3 CTPHBA3 HAEHBA3 MDMHBA3
Research Methods 3	RSMHBB3	
Fourth year		
Module name	**Module code**	**Prerequisite code**
Semester one		
Laboratory Management 4	LBMHBA4	IMLHBB3
Year Modules		
Research Project IV (Mini Dissertation in the field of Specialisation)	RSPHBY4	IMLHBB3 RSMHBB3
Choose one of the following elective modules:		
Clinical Chemistry 4	CLCHBY4	CLCHBA3 IMLHBB3
OR		
Clinical Pathology 4	CNPHBY4	CLCHBA3 HAEHBA3 MDMHBA3 IMLHBB3
OR		
Cytogenetics 4	CYTGBY4	CTPHBA3 IMLHBB3
OR		
Cytopathology 4	CTPHBY4	CTPHBA3 IMLHBB3
OR		
Forensic Sciences 4	FRSHBY4	IMLHBB3 CLCHBA3 CTPHBA3 HAEHBA3 MDMHBA3
OR		

Haematology 4	HAEHBY4	HAEHBA3 IMLHBB3
OR		
Histopathology 4	HTPHBY4	HTPHBA2 IMLHBB3
OR		
Immunohaematology 4	IMHHBY4	IMHHBA2 IMLHBB3
OR		
Immunology 4	IMMHBY4	IMHHBA2 IMLHBB3
OR		
Medical Microbiology 4	MDMHBY4	MDMHBA3 IMLHBB3
OR		
Pharmacology 4	PHMHBY4	CLCHBA3 IMLHBB3

HS1.2 **MASTER OF HEALTH SCIENCES: BIOMEDICAL SCIENCES (M9BS1Q)**
Duration of programme
Full-time: Minimum 1 year and Maximum 2 years
Part-time: Minimum 1 year and Maximum 3 years
NQF level 9, 180 Credits
Research dissertation 100%

HS1.2.1 Purpose

The purpose of the MHS in Biomedical Sciences is to produce graduates that are competent in conducting scientific research under minimal guidance in a chosen field, and to contribute to knowledge production in that field. The research problem, its justification, process and outcome are to be reported in a dissertation which complies with the generally accepted norms for research at these levels.

HS1.2.2 Outcomes

Research is carried out under minimal guidance and a dissertation is successfully submitted.

HS1.2.3 Rules of access and admission requirements

A Bachelor of Health Science (BHS): Medical Laboratory Science (MLS) degree or an equivalent qualification at an equivalent standard as determined by a Status Committee and approved by the Faculty Board.

Selection Criteria

Selection is based on approval by the Department's Research Committee.

HS1.2.4 Pass requirements

Refer to the Academic Regulations of the University of Johannesburg.

HS1.2.5 Curriculum

A research project and a dissertation: The research component is 100%.

Module name	Module codes
Semester one	
Research Project and Dissertation: Health Sciences (Biomedical Sciences)	DBS9XA1
Semester two	
Research Project and Dissertation: Health Sciences (Biomedical Sciences)	DBS9XB1

HS 1.3 DOCTOR OF PHILOSOPHY IN HEALTH SCIENCES: BIOMEDICAL SCIENCES (P9HS1Q)
Duration of programme
Full-time: Minimum 2 years and Maximum 4 years
Part-time: Minimum 2 years and Maximum 5 years
NQF level 10, 360 Credits
Research thesis 100%

HS 1.3.1 Purpose

The purpose of the PhD in Health Sciences: Biomedical Sciences is to produce graduates that are competent in conducting scientific research under minimal guidance in a chosen field, and to contribute to knowledge production in that field. The research problem, its justification, process and outcome are to be reported in a dissertation that complies with the generally accepted norms for research at these levels.

HS 1.3.2 Outcomes

Research is carried out under minimal guidance and a thesis is successfully submitted.

HS 1.3.3 Rules of access and admission requirements

A Master's degree: Biomedical Technology/Sciences or an equivalent qualification at an equivalent standard as determined by a Status Committee and approved by the Faculty Board.

Selection Criteria

Selection is based on approval by the Faculty's Research Committee.

HS 1.3.4 Pass requirements

Refer to the Academic Regulations of the University of Johannesburg.

- To publish a minimum of 2 papers before graduation

HS 1.3.5 Curriculum

A research thesis. The research component is 100%.

Module name	Module code
Semester one	
Research Project and Thesis: Health Sciences (Biomedical Sciences)	RBM10X1
Semester two	
Research Project and Thesis: Health Sciences (Biomedical Sciences)	RBM10X2

HS2.0 DEPARTMENT OF CHIROPRACTIC

HS2.1 BACHELOR OF HEALTH SCIENCES IN CHIROPRACTIC (B9C01Q)

Duration of programme
Full-time: Minimum 4 years and Maximum 6 years
NQF Level 8, 480 Credits

Students start with a four-year degree. After the successful completion of the Professional Master's degree, you will be entitled to register with the Allied Health Professions Council of South Africa.

HS2.1.1 Purpose

The purpose of this curriculum is to give the student a thorough understanding and working knowledge of the structure and function of the human being in both health and disease and the fluctuations that lie between these poles.

Chiropractic programme aims to develop the emerging Chiropractor in light of the following:

- Primary contact practitioners.
- Specialist assessors of neuromusculoskeletal system.
- Specialists in the field of spinal and extremity manipulation.
- Wellness and holistic practitioners trained in the prevention of disease.

HS2.1.2 Outcomes

On completion of this programme, the student will be able to:

ELO 1 Apply the relevant procedures and technologies in order to clinically assess, diagnose, treat and manage (including appropriate referral) of the patient in terms of normal and abnormal findings.
ELO 2 Apply the principles, proven techniques and specialized skills required for the promotion of musculoskeletal health and the prevention and rehabilitation of problems of the musculoskeletal system.
ELO 3 Demonstrate the application of pertinent knowledge of the biopsychosocial, biological, pharmacological and basic sciences in terms of chiropractic and community health.
ELO 4 Demonstrate appropriate communication skills for personal and professional development within a chiropractic context and apply the principles of medical ethics within a multi-cultural and international context.

ELO 5 Acquire knowledge of the entrepreneurial sciences and professional practices relevant to chiropractic.
ELO 6 Evaluate and interrogate multiple sources of literature as critical users and developers of research in the Chiropractic field, continue with lifelong learning and become a reflective practitioner.

HS2.1.3 Rules of access and admission requirements

The admission requirements for the BHS Chiropractic programme are as tabulated below:
A Senior Certificate with matriculation exemption, or an equivalent qualification at an equivalent standard as determined by a Status Committee, with the following:

Two of the following modules:
1. Mathematics with at least a Higher Grade D or Standard Grade C symbol.
2. Physical Science with at least Higher Grade D or Standard Grade C symbol, Biology with at least Higher Grade D or Standard Grade C symbol.

A National Senior Certificate (NSC) - APS Score with minimum requirements as shown below:
(Exclude Life Orientation when calculating APS)

Minimum APS	**Language of teaching and Learning (English)**	**Mathematics**	**Mathematical Literacy**	**Physical Sciences**	**Life Sciences**
26	**5**	**4**	**Not accepted**	**4**	**4**

Selection criteria

Selection is based on:

1. Applicants with Physical Sciences or Life Sciences will be considered, based on academic merit.
2. A personal interview.
3. Letters of recommendation from at least 2 practising doctors of Chiropractic.

HS2.1.4 Pass requirements

1. Students are promoted:
   a. To full second-year status if they have passed all the first-year modules.
   b. To full third-year status if they have passed all the second-year modules.
   c. To full fourth-year status if they have passed all third-year modules.
2. The pass mark for all clinical/practical modules is 60% from the third year of study.
3. In order to gain readmission to the programme, first year students must pass a minimum of 60% of the first year modules.
4. Students may enrol for a module in the following year, provided that:
   a. They have passed the prerequisite module.
   b. They have passed both the theory and practical final summative assessments in a module comprising a theory and a practical component.
5. Students retain credit for all modules passed.
6. Students must pass all components of the module(s) to obtain credit for the module(s).
7. Students may not register for module combinations that lead to timetable clashes.

8. 100% attendance of and participation in the practical and/or clinical components are compulsory. If students fail to comply with this requirement, they may fail the module and be required to repeat the full module.
9. If students fail any third or fourth year module(s), they must repeat all the practical/clinical modules of the respective year. The practical and theoretical components are assessed in an integrated manner and students will therefore be required to repeat and pass the module(s) in entirety, as indicated in the relevant learning guide. If students fail to comply with this requirement, they may not be promoted to the following year of study.
10. Students will be required to complete a stipulated clinical component (in line with any relevant Professional Board requirements) prior to conferment of degree.

HS2.1.5 Student registration with the Professional Council

Students must register with the Allied Health Professions Council of South Africa at the beginning of each year of registration, at which time a fee is payable. It is the students' responsibility to ensure they are registered from the second year of study.
During the fourth year of study, students must successfully complete a First Aid course for which the Department will make provision. An additional levy will be charged. Students will subsequently be personally responsible for maintaining the validity of this course.

HS2.1.6 Curriculum

All modules are Continuous Evaluation modules.

First year		
Module name	**Module code**	**Prerequisite code**
Semester one		
Physics of Health Sciences 1	PHYCHA1	
Semester Two		
Sociology of Health and Health Care	SOHCHB1	
Year modules		
Anatomy and Physiology 1	ANPCHY1	
Biodiversity	BIODIY1	
Chemistry 1	CETCHY1	
Chiropractic Principles and Practice 1	CPPCHY1	
Personal and Professional Development 1	PPDCHY1	
Second year		
Module name	**Module code**	**Prerequisite code**
Semester one		
Medical Microbiology	MDMCHA2	BIODIY1

Year modules		
Anatomy 2	ANTCHY2	ANPCHY1
Chiropractic Principles and Practice 2	CPPCHY2	CPPCHY1
Human Biochemistry and Disease 1	HBDCHY2	CETCHY1
Personal and Professional Development 2	PPDCHY2	PPDCHY1
Physiology 2	PHYCHY2	ANPCHY1
Third year		
Module name	**Module code**	**Prerequisite code**
Semester one		
Pharmacology	PHMCHA3	HBDCHY2
Semester two		
Radiology	RADCHB3	ANTCHY2
Year modules		
Clinical Diagnostics 3	CLDCHY3	ANTCHY2 PHYCHY2 HBDCHY2 MDMCHA2
Clinical Psychology	CLPCHY3	SOHCHB1
Chiropractic Principles and Practice 3	CPPCHY3	ANTCHY2 PHYCHY2 HBDCHY2 MDMCHA2 CPPCHY2
Myofascial and Auxiliary Therapies 3	MATCHY3	ANTCHY2 PHYCHY2 HBDCHY2 MDMCHA2 PHYCHA1
Pathology 3	PATCHY3	ANTCHY2 PHYCHY2 HBDCHY2 MDMCHA2

Fourth year		
Module name	**Module code**	**Prerequisite code**
Semester one		
Clinical and Applied Biomechanics 4	CABCHA4	CPPCHY3 MATCHY3 CLDCHY3
Research Methodology 4	REMCHA4	CPPCHY3
Semester two		
Myofascial and Auxiliary Therapies 4	MATCHB4	CPPCHY3 MATCHY3 CLDCHY3
Research Project 4	REPCHB4	REMCHA4
Year modules		
Clinical Chiropractic 4	CLCCHY4	CPPCHY3 MATCHY3 CLDCHY3 PATCHY3 PHMCHA3 RADCHB3
Chiropractic Principles and Practice 4	CPPCHY4	CPPCHY3 MATCHY3 CLDCHY3 PATCHY3 PHMCHA3 RADCHB3
Clinical Practice 4	CPRCHY4	CPPCHY3 MATCHY3 CLDCHY3 PATCHY3 PHMCHA3 RADCHB3
Radiology 4	RADCHY4	CPPCHY3 MATCHY3 CLDCHY3 PATCHY3 PHMCHA3 RADCHB3

HS2.2 MASTER OF HEALTH SCIENCES IN CHIROPRACTIC (M9C01Q)

Duration of programme
Full-time: 2 Years
NQF Level 9, 180 Credits
Course work 70% and minor dissertation 30%

After the successful completion of the Professional Master of Health Sciences in Chiropractic degree you will be entitled to register with the Allied Health Professions Council of South Africa.

HS2.2.1 Purpose

The purpose of this curriculum is to give the student a thorough understanding and working knowledge of the structure and function of the human being in both health and disease and the fluctuations that lie between these poles.

The Chiropractic programme aims to develop the emerging Chiropractor as a:

- Primary contact practitioner.
- Specialist assessor of neuromusculoskeletal system.
- Specialist in the field of spinal and extremity manipulation.
- Wellness and holistic practitioner trained in the prevention of disease.

HS2.2.2 Outcomes

On completion of this programme, the student will be able to:

ELO 1 Apply the relevant procedures and technologies in order to clinically assess, diagnose, treat and manage (including appropriate referral) of the patient in terms of normal and abnormal findings.
ELO 2 Apply the principles, proven techniques and specialized skills required for the promotion of musculoskeletal health and the prevention and rehabilitation of problems of the musculoskeletal system.
ELO 3 Demonstrate the application of pertinent knowledge of the biopsychosocial, biological, pharmacological and basic sciences in terms of chiropractic and community health.
ELO 4 Demonstrate appropriate communication skills for personal and professional development within a chiropractic context and apply the principles of medical ethics within a multi-cultural and international context
ELO 5 Acquire knowledge of the entrepreneurial sciences and professional practices relevant to chiropractic.
ELO 6 Critically use and interrogate multiple sources of literature in order to develop and contribute towards research output in a Chiropractic related field and to continue with lifelong learning and become a reflective practitioner.

HS2.2.3 Rules of access and admission requirements

The minimum admission requirement is a Bachelor of Health Sciences in Chiropractic (BHSc Chiropractic). Applications from persons with an equivalent qualification will be considered by a constituted status committee in line with the University's & Faculty's regulations.

Selection criteria

None

HS2.2.4 Pass requirements

1. Students must pass all components of the module(s) to obtain credit for the module(s).
2. Students may not register for module combinations that lead to timetable clashes.

3. 100% attendance of and participation in the practical and/or clinical components are compulsory. If students fail to comply with this requirement, they may fail the module and be required to repeat the full module.
4. If students fail a module(s), they must repeat all the practical/clinical modules of the respective year. The practical and theoretical components are assessed in an integrated manner and students will therefore be required to repeat and pass the module(s) in entirety, as indicated in the relevant learning guide. If students fail to comply with this requirement, they may not graduate.
5. Students will be required to complete a stipulated clinical component (in line with any relevant Professional Board requirements) prior to conferment of degree.

HS2.2.5 Student registration with the Professional Council

1. Students must register with the Allied Health Professions Council of South Africa at the beginning of each year of registration, at which time a fee is payable. It is the students' responsibility to ensure they are registered.
2. After graduation, students must apply to the Council for registration as a Chiropractor.
3. Full registration will only be granted after completion of a period of Community Service / Internship as determined by the Allied Health Professions Council of South Africa.

HS2.2.6 Curriculum

A research project and a minor dissertation. The research component is 30%.

First year		
Module name	**Module code**	**Prerequisite code**
Semester one		
Clinical and Applied Biomechanics 5	CAB9XA1	
Practice Management and Jurisprudence	PMJ9X01	
Year modules		
Clinical Chiropractic 5	CHC9XY1	
Chiropractic Clinical Practice 5A	CHP9XA1	
Chiropractic Principles and Practice 5	CPP9XY1	
Myofascial and Auxiliary Therapies 5	MAT9XA1	
Research Project and Dissertation 5A	RPD9XA1	
Second year		
Module name	**Module code**	**Prerequisite code**
Semester one		
Research Project and Dissertation 5B	RPD9XB2	

Semester two		
Research Project and Dissertation 5C	RPD9XC2	
Year modules		
Chiropractic Clinical Practice 5B	CHP9XB2	

HS2.3 DOCTOR OF PHILOSOPHY IN HEALTH SCIENCES: CHIROPRACTIC (P9HS2Q)

Duration of programme
Full-time: Minimum 2 years and Maximum 4 years
Part-time: Minimum 2 years and Maximum 5 years
NQF level 10, 360 Credits
Research thesis 100%

HS2.3.1 Purpose

The purpose of this programme is to provide the qualifying student with advanced analytical problem-solving and reflective competencies in the field of chiropractic, and to enable them to act as a leader within the chiropractic research field. This will be achieved by making an original contribution to the knowledge content of chiropractic through independent research.

HS2.3.2 Outcomes

On completion of this qualification the graduate will be competent to conduct, present/publish and supervise accredited research within the field of chiropractic, in order to advance professional development and provide health education to individuals and communities.

HS2.3.3 Rules of access and admission requirements

The minimum admission requirement is one of the following:

- Master of Health Sciences in Chiropractic
- Master of Technology: Chiropractic
- An Equivalent qualification in a relevant field at an NQF level 9. Applications from persons with an equivalent qualification will be considered by a constituted status committee in line with the University's & Faculty's regulations.

Selection criteria

Selection is based on approval of the student's research proposal by the Faculty's Research and Ethics Committees.

HS2.3.4 Pass requirements

Refer to the Academic Regulations of the University of Johannesburg

HS2.3.5 Curriculum

A research thesis. The research component is 100%.

Module name	Module code
Semester one	
Research Project and Thesis: Health Sciences (Chiropractic)	RPC10X1
Semester two	
Research Project and Thesis: Health Sciences (Chiropractic)	RPC10X2

HS3.0 DEPARTMENT OF COMPLEMENTARY MEDICINE

HS3.1 BACHELOR OF HEALTH SCIENCES IN COMPLEMENTARY MEDICINE (B9CM1Q)

Duration of programme
Full-time: Minimum 4 years and Maximum 6 years
NQF Level 8, 480 Credits

HS3.1.1 Purpose

The purpose of this qualification is to provide the qualifying student with the necessary knowledge, skills and competencies required to successfully consult, treat pre-diagnosed patients and communicate holistic advice to patients. The graduate will be a team player capable of working in multidisciplinary teams to promote the profession.

HS3.1.2 Outcomes

On completion of this programme the graduate will be competent to practice as a Complementary Medicine (CM) healthcare therapist within the community. The graduate will be eligible to register with the Allied Health Professions Council of South Africa as an acupuncture therapist. The graduate will be able to conduct research within the field of CM in order to advance professional development and provide health education to individuals and communities.

HS3.1.3 Rules of access and admission requirements

A Senior Certificate with matriculation exemption, or an equivalent qualification at an equivalent standard as determined by a Status Committee, with the following:

Two of the following subjects:
1. Mathematics with at least a Higher Grade D or Standard Grade C symbol.
2. Physical Science with at least Higher Grade D or Standard Grade C symbol.
3. Biology with at least Higher Grade D or Standard Grade C symbol.

A National Senior Certificate (NSC) - APS Score with minimum requirements as shown below:
(Exclude Life Orientation when calculating APS)

Minimum APS	Language of teaching and Learning (English)	Mathematics	Mathematical Literacy	Physical Sciences	Life Sciences
26	**5**	**4**	**Not accepted**	**4**	**4**

Selection criteria

Selection is based on:

1. Academic merit.
2. A personal interview.
3. Letters of recommendation from at least 1 practitioner of CM.
4. Letter of orientation from the Health Training Centre, UJ.
5. Completion of an assignment.

HS3.1.4 Pass requirements

1. Students are promoted:
   a. To full second-year status if they have passed all the first-year modules.
   b. To full third-year status if they have passed all the second-year modules.
   c. To full fourth-year status if they have passed all the third-year modules.
2. The pass mark for all clinical/practical modules is 60% from the third year of study.
3. In order to gain readmission to the programme, first year students must pass a minimum of 60% of the first year modules.
4. Students may enrol for a module in the following year, provided that:
   a. They have passed the prerequisite module.
   b. They have passed both the theory and practical final summative assessments in a module comprising a theory and a practical component.
5. Students retain credit for all modules passed.
6. Students must pass all components of the module(s) to obtain credit for the module(s).
7. Students may not register for module combinations that lead to timetable clashes.
8. 100% attendance of and participation in the practical and/or clinical components are compulsory. If students fail to comply with this requirement, they may fail the module and be required to repeat the full module.
9. If students fail any third or fourth year module(s), they must repeat all the practical/clinical modules of the respective year. The practical and theoretical components are assessed in an integrated manner and students will therefore be required to repeat and pass the module(s) in entirety, as indicated in the relevant learning guide. If students fail to comply with this requirement, they may not be promoted to the following year of study.
10. Students will be required to complete a stipulated clinical component (in line with any relevant Professional Board requirements) prior to conferment of degree.

HS3.1.5 Student Registration with Professional Council

1. Students must register with the Allied Health Professions Council of South Africa (AHPCSA) at the beginning of each year of registration, at which time a fee is payable to the AHPCSA. It is the students' responsibility to ensure they are registered from

the second year of study.

2. After graduation, students may apply to the AHPCSA for registration as an Acupuncturist. Full registration will only be granted after completion of a period of Community Service/ Internship as determined by the Allied Health Professions Council of South Africa.

HS3.1.6 Curriculum

All modules are Continuous Evaluation modules.

First year		
Module name	**Module code**	**Prerequisite code**
Semester one		
Physics for Health Sciences 1	PHYCHA1	
Semester two		
Sociology of Health and Health Care	SOHCHB1	
Year modules		
Anatomy and Physiology 1	ANPCMY1	
Biodiversity	BIODIY1	
Chemistry 1	CETCHY1	
Complementary Medicine Practices 1	COPCMY1	
Personal and Professional Development 1	PPDCMY1	
Second year		
Module name	**Module code**	**Prerequisite code**
Semester one		
Medical Microbiology	MDMCHA2	BIODIY1
Year modules		
Anatomy 2	ANTCMY2	ANPCMY1
Complementary Medicine Practices 2	COPCMY2	ANPCMY1 BIODIY1 COPCMY1
Human Biochemistry and Disease 1	HBDCMY2	ANPCMY1 CETCHY1 PHYCHA1
Physiology 2	PHYCMY2	ANPCMY1 COPCMY1

Personal and Professional Development 2	PPDCMY2	PPDCMY1 SOHCHB1
Third year		
Module name	**Module code**	**Prerequisite code**
Semester one		
Basic Life Support	BLSCMA3	ANTCMY2 PHYCMY2
Pharmacology	PHMCMA3	ANTCMY2 PHYCMY2
Semester two		
Phytochemistry	PHTCMB3	HBDCMY2 MDMCHA2 COPCMY2
Year Modules		
Clinical Diagnostics 3	CLDCHY3	ANTCMY2 PHYCMY2 COPCMY2
Clinical Psychology	CLPCHY3	ANTCMY2 PHYCMY2 COPCMY2 PPDCMY2
Complementary Medicine Practices 3	COPCMY3	ANTCMY2 PHYCMY2 HBDCMY2 MDMCHA2 COPCMY2 PPDCMY2
Nutritional Medicine	NTMCMY3	PHYCMY2 HBDCMY2 COPCMY2
Pathology	PATCMY3	ANTCMY2 PHYCMY2 HBDCMY2 MDMCHA2
Choose one of the following elective modules		
Homeopathic Materia Medica 1	HMMCMY3	ANTCMY2 PHYCMY2 HBDCMY2 MDMCHA2 COPCMY2 PPDCMY2
OR		

Phytotherapy 1	PTTCMY3	ANTCMY2 PHYCMY2 HBDCMY2 MDMCHA2 COPCMY2 PPDCMY2
Fourth year		
Module name	**Module code**	**Prerequisite code**
Semester one		
Good Pharmacy Practice	GPPCMA4	PHMCMA3 NTMCMY3 PHTCMB3 COPCMY3
Practice Management and Jurisprudence 1	PMJCMA4	COPCMY3 CLDCHY3
Research Methods in Complementary Medicine	REMCMA4	PATCMY3 PHMCMA3 CLPCHY3 NTMCMY3 PHTCMB3 COPCMY3 CLDCHY3
Semester two		
Compounding and Dispensing Complementary Medicine	CDDCMB4	GPPCMA4 PHMCMA3 NTMCMY3 PHTCMB3 COPCMY3
Research Project in Complementary Medicine	REPCMB4	REMCMA4
Year Modules		
Applied Nutritional Medicine	ANMCMY4	PATCMY3 PHMCMA3 CLPCHY3 NTMCMY3 PHTCMB3 COPCMY3 CLDCHY3

Clinical Practice 1	CPRCMY4	BLSCMA3 PATCMY3 PHMCMA3 CLPCHY3 NTMCMY3 PHTCMB3 COPCMY3 CLDCHY3
Choose one of the following elective modules		
Applied Homeopathic Materia Medica	AHMCMY4	PATCMY3 PHMCMA3 CLPCHY3 NTMCMY3 PHTCMB3 COPCMY3 CLDCHY3 HMMCMY3*
OR		
Applied Phytotherapy 1	APTCMY4	PATCMY3 PHMCMA3 CLPCHY3 NTMCMY3 PHTCMB3 COPCMY3 CLDCHY3 PTTCMY3*
Choose one of the following elective modules		
Homeopathic Materia Medica 2	HMMCMY4	PHMCMA3 CLPCHY3 NTMCMY3 PHTCMB3 COPCMY3 CLDCHY3 HMMCMY3*
OR		
Phytotherapy 2	PTTCMY4	PATCMY3 PATCMY3 PHMCMA3 CLPCHY3 NTMCMY3 PHTCMB3 COPCMY3 PTTCMY3*

HS3.2 POSTGRADUATE DIPLOMA IN ACUPUNCTURE (E9A01Q)

Duration of programme
Part-time: Minimum 2 years
NQF Level 8, 120 Credits

HS3.2.1 Purpose

The purpose of the Postgraduate Diploma in Acupuncture is to provide existing health care professionals with knowledge of the principles, practice and safety issues of the use of acupuncture techniques. The qualifying graduate will be able to competently apply and integrate clinical approaches that optimise the use of the various employed techniques in acupuncture therapeutics; incorporate acupuncture as a treatment modality in their practice as clinically indicated; and be able to integrate modern medical science and acupuncture diagnostics and therapeutics to improve patient care and satisfaction. The graduate will also be a team player capable of working in multidisciplinary teams to promote the profession.

HS3.2.2 Outcomes

Students will be able to:

Interpret clinical data in order to identify and assess the range of health problems presented to acupuncturists, and implement a comprehensive and holistic approach with the integration of relevant clinical competencies and therapeutic acupuncture knowledge.

HS3.2.3 Rules of access and admission requirements

Master of Technology (M. Tech): Homoeopathy, M. Tech Chiropractic, Bachelor of Medicine or Bachelor of surgery (MBChB), Double Bachelors from the University of the Western Cape (UWC) (BSc Complementary Health Science plus a Bachelor's degree in one of the following: Phytotherapy, Naturopathy, or Unani-Tibb).

Applications from persons with other related qualifications will be considered by a constituted status committee in line with the University and Faculty regulations.

HS3.2.4 Pass requirements

1. The pass mark for all clinical/practical modules is 60%.
2. The pass mark for all theory modules is 50%.
3. Students must pass all components of the module(s) to obtain credit for the module(s).
4. Students may be required to complete a stipulated clinical component (in line with any relevant Professional Board requirements) prior to conferment of degree.

HS3.2.5 Student Registration with Professional Council

Students must register with the Allied Health Professions Council of South Africa (AHPCSA) at the beginning of each year of registration, as a student within the domain of acupuncture, at which time a fee is payable to the AHPCSA. It is the students' responsibility to ensure they are registered from the second year of study.

After graduation, students can apply to the AHPCSA for registration as an Acupuncturist. Full registration will only be granted after completion of a period of Community Service/ Internship as determined by the Allied Health Professions Council of South Africa.

HS3.2.6 Curriculum

First year		
Module name	**Module code**	**Prerequisite code**
Acupuncture Therapeutics 1	ACT01Y1	
Clinical Acupuncture 1	CLACMY1	
Foundations of Acupuncture	FOACMY1	
Needling Techniques 1	NETCMY1	
Second year		
Acupuncture Therapeutics 2	ACT01Y2	ACT01Y1
Applied Research	APRCMY2	FOACMY1
Clinical Acupuncture 2	CLACMY2	CLACMY1
Ethics and Jurisprudence	ETJCMY2	NETCMY1

HS3.3 POSTGRADUATE DIPLOMA IN PHYTOTHERAPY (E9P01Q)

Duration of programme
Part-time: Minimum 2 years
NQF Level 8, 120 Credits

HS3.3.1 Purpose

The purpose of this programme is to develop a graduate competent in the knowledge, attitudes, insight and skills required for diagnosing and managing patients in the field of Phytotherapy and formulating comprehensive treatment plans for health promotion. Graduates will be competent to compound, dispense and prescribe herbal medicines within their scope of practice and will also be a team player capable of working in multidisciplinary teams to promote the profession.

HS3.3.2 Outcomes

Derive, analyse, and interpret clinical data in order to identify and assess the range of health problems presented to phytotherapists, and implement a comprehensive and holistic approach with the integration of relevant clinical competencies and phytotherapy knowledge.

HS3.3.3 Rules of access and admission requirements

Master of Technology (M. Tech): Homoeopathy, M. Tech Chiropractic, Bachelor of Medicine or Bachelor of surgery (MB ChB), Double Bachelors from the University of the Western Cape (UWC) (BSc Complementary Health Science plus a Bachelor's degree in one of the following: Chinese Medicine and Acupuncture, Naturopathy, or Unani-Tibb).

Applications from persons with other related qualifications will be considered by a constituted status committee in line with the University and Faculty regulations.

HS3.3.4 Pass requirements

1. The pass mark for all clinical/practical modules is 60%.
2. The pass mark for all theory modules is 50%.
3. Students must pass all components of the module(s) to obtain credit for the module(s).
4. Students may be required to complete a stipulated clinical component (in line with any relevant Professional Board requirements) prior to conferment of degree.

HS3.3.5 Student Registration with Professional Council

Students must register with the Allied Health Professions Council of South Africa (AHPCSA) at the beginning of each year of registration, as a student within the domain of phytotherapy, at which time a fee is payable to the AHPCSA. It is the students' responsibility to ensure they are registered from the second year of study.

After graduation, students can apply to the AHPCSA for registration as a Phytotherapist. Full registration will only be granted after completion of a period of Community Service/ Internship as determined by the Allied Health Professions Council of South Africa.

HS3.3.6 Curriculum

First year		
Module name	**Module code**	**Prerequisite code**
Applied Phytotherapy 1	APT01Y1	
Foundations of Phytotherapy 1	FOPCMY1	
Herbal Pharmacognosy	HPCCMY1	
Herbal Pharmacology and Phytochemistry	HPPCMY1	
Second year		
Herbal Pharmacy	HEPCMY2	HPCCMY1
Applied Research	APRCMY2	FOPCMY1
Clinical Phytotherapy	CLPCMY2	APT01Y1
Ethics and Jurisprudence	ETJCMY2	HPPCMY1

HS3.4 MASTER OF HEALTH SCIENCES IN COMPLEMENTARY MEDICINE (M9CM1Q)

Duration of programme
Full-time: 2 Years
NQF Level 9, 180 Credits
Course work 70% and minor dissertation 30%

HS3.4.1 Purpose

The purpose of this qualification is to develop a graduate competent in the knowledge, attitudes, insight and skills required for diagnosing and treating patients in the field of CM as well as formulating comprehensive management plans for health promotion.

The qualifying graduate will be able to competently apply and integrate theoretical principles, evidence-based techniques, practical exposure and appropriate skills as a healthcare practitioner. The programme of study will produce a well-rounded graduate who will be competent to compound, dispense and prescribe CMs within that scope of practice. The graduate will be a team player capable of working in multidisciplinary teams to promote the profession.

HS3.4.2 Outcomes

On completion of this programme the graduate will be competent to practice as a CM healthcare practitioner, as either a homeopath or phytotherapist, within the community. The graduate will be eligible to register with the Allied Health Professions Council of South Africa as a practitioner within the respective CM field. The graduate will be able to conduct research in order to develop and contribute towards research output in a CM related field in order to advance professional development in the provision of health care and education to individuals and communities.

HS3.4.3 Rules of access and admission requirements

The minimum admission requirement is the Bachelor of Health Sciences in Complementary Medicine (BHS CM). Applications from persons with an equivalent qualification will be considered by a constituted status committee in line with the University's & Faculty's regulations.

HS3.4.4 Pass requirements

1. The pass mark for all clinical/practical modules is 60%.
2. Students retain credit for all modules passed.
3. Students must pass all components of the module(s) to obtain credit for the module(s).
4. 100% attendance of and participation in the practical and/or clinical components are compulsory. If students fail to comply with this requirement, they may fail the module and be required to repeat the full module.
5. Students will be required to complete a stipulated clinical component (in line with any relevant Professional Board requirements) prior to conferment of degree.
6. If students fail any module(s), they must repeat all the practical/clinical modules (excluding the entrance OSCE). The practical and theoretical components are assessed in an integrated manner and students will therefore be required to repeat and pass the module(s) in entirety, as indicated in the relevant learning guide.
7. All students are required to complete a research project for conferment of the qualification which will be weighted as 30% of the master's year.

HS3.4.5 Student Registration with Professional Council

1. Students must register with the Allied Health Professions Council of South Africa (AHPCSA) at the beginning of the year, at which time a fee is payable to the AHPCSA.

It is the students' responsibility to ensure they are registered.

2. After graduation, students must apply to the Council for registration within the respective field of CM.
3. Registration as a practitioner may only be granted by the AHPCSA after completion of a prescribed internship as determined by the AHPCSA.

HS3.4.6 Curriculum

A research project and a minor dissertation. The research component is 30%.

First year		
Module name	**Module code**	**Prerequisite code**
Semester one		
Practice Ethics and Jurisprudence 2	PEJ9XA1	
Year modules		
Applied Homeopathic Materia Medica 2	AHM9XY1	
Applied Phytotherapy 2	APT9XY1	
Clinical Practice 2	CPR9XY1	
Homeopathic Materia Medica 3	HMM9XY1	
Phytotherapy 3	PTT9XY1	
Research Project	REP9XY1	
Second year		
Module name	**Module code**	**Prerequisite code**
Semester one		
Homeopathy Internship	HPI9XA2	
Semester two		
Homeopathy Internship	HPI9XB2	
Year modules		
Research Project	REP9XY2	

HS3.5 DOCTOR OF HEALTH SCIENCES IN COMPLEMENTARY MEDICINE (P9CM1Q)

Duration of programme
Full-time: Minimum 2 years and Maximum 4 years
Part-time: Minimum 2 years and Maximum 5 years
NQF Level 10, 360 Credits
Research thesis 100%

HS3.5.1 Purpose

The purpose of this programme is to provide the qualifying student with advanced analytical problem-solving and reflective competencies in the field of complementary medicine (CM), and to enable them to act as a leader within the CM research field. This will be achieved by making an original contribution to the knowledge content of CM through independent research.

HS3.5.2 Outcomes

On completion of this qualification, the graduate will be competent to conduct, present/publish and supervise accredited research within the field of CM, in order to advance professional development and provide health education to individuals and communities.

HS3.5.3 Rules of access and admission requirements

The admission requirement for the DHSc CM programme is a Masters of Health Sciences in Complementary Medicine (MHSc CM) (Homeopathy or Phytotherapy) or Master of Technology (M. Tech): Homoeopathy, or an equivalent qualification in a relevant field at an NQF level 9, generating a minimum of 180 credits for example: phytochemistry, pharmacology or related analytical fields. Applications from persons with an equivalent qualification will be considered by a constituted status committee in line with the University's & Faculty's regulations.

Selection criteria

Selection is based on approval of the student's research proposal by the Faculty's Research and Ethics Committees.

HS3.5.4 Pass requirements

Refer to the Academic Regulations of the University of Johannesburg.

HS3.5.5 Curriculum

A research thesis. The research component is 100%.

Module name	**Module code**
Semester one	
Research Project and Thesis: Complementary Medicine	CPMEDA1
Semester two	
Research Project and Thesis: Complementary Medicine	CPMEDB1

HS4.0 DEPARTMENT OF EMERGENCY MEDICAL CARE

HS4.1 HIGHER CERTIFICATE IN EMERGENCY MEDICAL CARE (F9E01Q)

Duration of programme
Full-time: Minimum 1 year and Maximum 2 years
NQF Level 5, 132 Credits

HS4.1.1 Purpose

This programme is designed to produce entry-level emergency care providers who are clinical assistants within the emergency medical care environment thereby replacing the Basic Ambulance Assistant Course as the entry qualification for emergency medical services. The qualification provides an entry point into a career in emergency medical services thereby creating access and an opportunity for employment within the emergency services and related industries. The programme will develop the necessary foundational knowledge; skills and attitudes necessary to form the basis for further study in the field of prehospital emergency medical care and will provide access to further study within the HEQSF.

Graduates will practice primarily on ambulances within South Africa in rural and urban contexts that range from sophisticated emergency medical care facilities to remote primary health care settings. This programme also aims to promote an understanding of the multi-disciplinary approach to effective, efficient patient care.

HS4.1.2 Outcomes

1. Demonstrate effective communication and apply the principles of medical ethics, professional behaviour and the legal framework to the context within which Emergency Care Assistants operate while maintaining personal health, wellness and safety.
2. Demonstrate knowledge of the structure and function of Emergency Medical Service (EMS) systems in South Africa and how they relate to the broader health care structures within the country.
3. Provide healthcare as part of a team within an emergency care environment to all sectors of the community within the Emergency Care Assistant scope of practice.

HS4.1.3 Rules of access and admission requirements

The minimum entry requirement is the National Senior Certificate with appropriate module combinations and levels of achievement as defined in the Minister's policy, Minimum Admission Requirements for Higher Certificate, Diploma and Bachelor's Degree Programmes Requiring a National Senior Certificate, Government Gazette, Vol. 482, 27961, 18 August 2005.

In addition to adherence to the University's student admission policy the Department has the following requirements:

The applicant with a Senior Certificate (Prior to 2009) must have at least a minimum of an E symbol on Higher Grade or a D symbol on Standard Grade pass for all of the following subjects:

- English
- Mathematics
- Biology or Physical Sciences

For applicants who obtained a Grade 12 during or after 2009:

A National Senior Certificate (NSC) - APS Score with minimum requirements as shown below:
(Exclude Life Orientation when calculating APS)

Minimum APS	Language of teaching and Learning (English)	Mathematics	Mathematical Literacy	Physical Sciences	Life Sciences
21	**5**	**3**	**Not accepted**	**3**	**4**

Selection criteria

Selection will be based on:

- academic merit; APS
- a structured personal interview;
- a phobia evaluation;
- medical examination;
- physical fitness and swimming proficiency evaluation;
- an English proficiency evaluation;
- previous appropriate experience (a recommendation).

HS4.1.4 Pass requirements

1. Students may graduate once they have passed all of the modules.
2. Due to the integrated nature of certain modules, individual credits are NOT retained unless all modules are passed within the same academic year. This ruling applies to the following modules:

H.Cert EMC
EMCCTY1
EMCCPY1
CLPECY1
PHPRCY1

3. If students fail any of the modules within the programme, they need to register for, and pass the physical preparedness module again.
4. 100% attendance of all theory lectures, practicals, experiential or clinical components as well as tutorials is compulsory.
5. In order to gain readmission to the programme, students must pass a minimum of 60% of the modules.
6. Students may not register for the same module for a third time without permission from the Head of Department and Executive Dean.
7. Students have a maximum of two years to complete the qualification.

HS4.1.5 Practical Training (Clinical learning)

1 Students must, by the end of the year, complete the Clinical Learning requirements which are detailed in the relevant study guides in order to be granted a credit for the clinical practice module.

2 Clinical practice is rostered at set periods during the academic year in conjunction

with cooperative partners and cannot be personalised.

3 100% attendance of all rostered shifts is compulsory. Students who miss shifts due to illness or injury will be required make up the missed shifts prior to the end of the academic year if they are to be granted a credit for the practical training modules.

HS4.1.6 Specific rules and regulations for Emergency Medical Care students

1. Students must familiarize themselves with the internal rules and regulations of the Department of Emergency Medical Care. These rules and regulations, as set out in the Departmental policy document, are binding.
2. Students who fail to attend theory classes will be requested to provide in writing reasons for their non-attendance.
3. The programme is not offered as a limited contact or distance- learning programme. Students who elect to leave the country will be unable to continue with their studies.
4. All students (even if not registered for Clinical Practice within that academic year) are required to see a minimum number of patients each year as determined by the department whilst they are registered. This is a requirement to ensure that clinical competencies are retained.
5. All registered students are required to attend physical training sessions as rostered.
6. Students may not register for a third time for the same module unless allowed by the Head of Department and Executive Dean of the Faculty.
7. Students are required to adhere to the requirements of the department relating to uniform and personal appearance.

HS4.1.7 Curriculum

All modules are Continuous Evaluation modules.

First year		
Module name	**Module code**	**Prerequisite code**
Semester one		
Basic Sciences: Physics 1A	PHYCEA1	
End User Computing	ENUC011	
Semester two		
Basic Sciences: Chemistry	CHBCEB1	
Mental Health and Wellness	MHAECB1	
Year modules		
Foundations of Professional Practice	FOPPCA1	
Emergency Medical Care 1 Theory	EMCCTY1	
Emergency Medical Care 1 Practical	EMCCPY1	
Clinical Practice 1	CLPECY1	
Anatomy 1	ANATCY1	

Physiology 1	PHYSEY1	
Physical Preparedness 1	PHPRCY1	

HS4.2 DIPLOMA IN EMERGENCY MEDICAL CARE (D9E01Q)

Duration of programme
Full-time: Minimum 2 years
NQF Level 6, 240 Credits

HS4.2.1 Purpose

This is a mid-level worker qualification within the Emergency Care profession. Successful completion leads to registration with the Health Professions Council of South Africa (HPCSA) as a Paramedic. The programme recognizes the key competences required by Paramedics who are able to work independently in a variety of prehospital emergency care contexts.

HS4.2.2 Outcomes

1. Demonstrate effective communication and apply the principles of medical ethics, professional behaviour, and the legal framework to the context within which Paramedics operate while maintaining personal health, wellness and safety.
2. Demonstrate knowledge of the structure and function of Emergency Medical Service (EMS) systems in South Africa and how they relate to the broader health care structures within the country.
3. Care for and operate medical and rescue equipment and resources required to render emergency care and rescue within the Paramedic scope of practice.
4. Perform appropriate clinical assessment, diagnostics skills and interventions within the Paramedic scope of practice.

HS4.2.3 Rules of access and admission requirements

The minimum entry requirement is the National Senior Certificate with appropriate module combinations and levels of achievement as defined in the Minister's policy. Minimum Admission Requirements for Higher Certificate, Diploma and Bachelor's Degree Programmes Requiring a National Senior Certificate, Government Gazette, Vol. 482, 27961, 18 August 2005.

In addition to adherence to the University's student admission policy, the Department has the following requirements:

1. The minimum admission requirement is a Senior Certificate with university exemption, or an equivalent (NQF Level 4) achievement, as determined by a status committee, with the following subject combinations and symbols:
   1.1 Biology or Physiology with at least a Higher Grade D or Standard Grade C symbol.
   1.2 Physical Science with at least a Higher Grade D or Standard Grade C symbol.
   1.3 Mathematics with at least a Higher Grade D or Standard Grade C symbol.

For applicants who obtained a Grade 12 during or after 2008:

A National Senior Certificate (NSC) - APS Score with minimum requirements as shown below:

(Exclude Life Orientation when calculating APS)

Minimum APS	Language of teaching and Learning	Mathematics	Mathematical Literacy	Physical Sciences	Life Sciences
26	**5**	**4**	**Not accepted**	**4**	**4**

Selection criteria

Selection will be based on:

- academic merit; APS
- a structured personal interview;
- a phobia evaluation;
- medical examination;
- physical fitness and swimming proficiency evaluation;
- an English proficiency evaluation;
- previous appropriate experience (a recommendation).

HS4.2.4 Pass requirements

1 Students may graduate once they have passed all the modules.
2 Due to the integrated nature of certain modules, individual credits are NOT retained unless all are passed within the same academic year. This ruling applies to the following modules:

1st year	2nd year
EMCTH11	EMCTH22
EMCPR11	EMCPR22
CLPR011	CLPR022
PHPR011	PHPR022

3 Students may enrol for a module in the following year, provided that:
  3.1 They have passed the prerequisite modules.
  3.2 The module selection does not lead to timetable clashes.
  3.3 In the case of Medical Rescue, the student has passed the physical preparedness module in the previous year of study.
4 If any of the modules within a particular year is failed, students need to register for and pass the physical preparedness module again.
5 First-year students must pass a minimum of 60% of the first-year modules to qualify for readmission to the programme.
6 100% attendance of all theory lecturers, practical, experiential or clinical components as well as tutorials is compulsory.
7 Students are granted full second-year status if they have passed all of the first-year modules.
8. Physical training is compulsory and in order to gain entry into Medical rescue Modules, students must successfully complete the physical preparedness evaluations.
9. Students may not register for the same module for a third time without permission from the Head of Department and Executive Dean of the Faculty.
10. Students have a maximum of four years to complete the qualification.

HS4.2.5 Practical Training (Clinical learning)

1 Students must, by the end of each year, complete the Clinical Learning requirements which are detailed in the relevant study guides in order to be granted a credit for the clinical practice modules.
2 Clinical practice is rostered at set periods during the academic year in conjunction with cooperative partners and cannot be personalised.
3 100% attendance of all rostered shifts is compulsory. Students who miss shifts due to illness or injury will be required make up the missed shifts prior to the end of the academic year if they are to be granted a credit for the practical training modules.

HS4.2.6 Specific rules and regulations for Emergency Medical Care students

1. Students must familiarize themselves with the internal rules and regulations of the Department of Emergency Medical Care. These rules and regulations, as set out in the Departmental policy document, are binding.
2. 100% attendance of all theory lecturers, practical, experiential, or clinical components as well as tutorials is compulsory.
3. Students who fail to attend theory classes will be requested to provide in writing reasons for their non-attendance.
4. The programme is not offered as a limited contact or distance- learning programme. Students who elect to leave the country will be unable to continue with their studies.
5. All students (even if not registered for Clinical Practice within that academic year) are required to see a minimum number of patients each year as determined by the department whilst they are registered. This is a requirement to ensure that clinical competencies are retained.
6. All registered students are required to attend physical training sessions as rostered.
7. Students may not register for a third time for the same module unless allowed by the Head of Department and Executive Dean of the Faculty.
8. Students are required to adhere to the requirements of the department relating to uniform and personal appearance.
9. Students have maximum of 4 years to complete the two-year diploma.

HS4.2.7 Curriculum

All modules are Continuous Evaluation modules.

First year		
Module name	**Module code**	**Prerequisite code**
Semester one		
Basic Sciences: Physics 1A	PHY1DA1	
End User Computing	ENUC011	
Semester two		
Basic Sciences: Chemistry	CET1DB1	
Mental Health and Wellness	MHAW011	
Year modules		
Foundations of Professional Practice	FOPP011	

Emergency Medical Care 1 Theory	EMCTH11	
Emergency Medical Care 1 Practical	EMCPR11	
Clinical Practice 1	CLPR011	
Anatomy 1	ANAT011	
Physiology 1	PHYS011	
Physical Preparedness 1	PHPR011	
Second year		
Module name	**Module code**	**Prerequisite code**
Year modules		
Emergency Medical Care 2 Theory	EMCTH22	PHY1DA1, ENUC011 CET1DB1, MHAW011 FOPP011, EMCTH11 EMCPR11, CLPR011 ANAT011, PHYS011
Emergency Medical Care 2 Practical	EMCPR22	
Clinical Practice 2	CLPR022	
Primary Health Care	PRHC022	
High Angle 1	HIAN022	All first-year modules must be passed.
Fire Search & Rescue	FSAR022	
Motor Vehicle Rescue	MOVR022	
Physical Preparedness 2	PHPR022	

HS4.3 ADVANCED CERTIFICATE IN MEDICAL RESCUE (C9EMRQ)

Duration of programme

Part-Time: Minimum 2 years and Maximum 3 years

Mode of Offering: Contact

NQF Level 6, 147 Credits

HS4.3.1 Purpose

This programme is designed to equip graduates with the required knowledge, skills and attributes to function as Medical Rescue Technicians. Medical Rescue Technicians will function within the emergency care profession of the South African healthcare system. These professionals will have the technical and cognitive ability necessary to operate at urban, rural and aquatic rescue incidents. Medical Rescue Technicians will promote a multi-disciplinary approach to effective, efficient rescue techniques with the patients' needs being central to the rescue operation.

HS4.3.2 Outcomes

1. Articulate a meaningful understanding of the over-arching principles and generic phases of a rescue including the role and function of rescue personnel, rescue services, incident command systems and applicable legislation within the South African context.
2. Apply the principles and theories of basic sciences underpinning rescue activities.
3. Conduct operational routines including the identification, inspection, preparation, operation, maintenance and storage of equipment, vehicles and other resources required to provide safe and effective rescue services.
4. Demonstrate appropriate levels of physical fitness, emotional stability, endurance, teamwork, and leadership required for the effective rendering of rescue in austere environments.
5. Demonstrate the ability to safely construct and operate rope rescue systems used to access, package, treat and extricate victims in a range of contexts including, urban, rural, industrial, wilderness and aquatic settings.
6. Perform and participate in search and rescue activities within a range of contexts including, urban, rural, industrial, wilderness and aquatic settings.

HS4.3.3 Rules of Access and Admission Requirements

This is a qualification for individuals who are already registered as health care professionals. Applicants will be required to provide proof that they are registered with the Health Professions Council (HPCSA) of South Africa or similar registering authority in the case of international applicants.

In addition, applicants would need to also hold an applicable recognised NQF level 5 or other higher education qualification in emergency medical care that facilitates their articulation and access into the Advanced Certificate in Medical Rescue. Applicants may enter the programme using the UJ's RPL criteria.

HS4.3.4 Selection criteria

To register for the qualification, the candidate must meet or exceed all the requirements indicated below:

The applicant with a Senior Certificate (prior to 2009) with University exemption, or its equivalent (NQF Level 4), as determined with an M-Score of 10 and at least a minimum of an E symbol on Higher Grade or a D symbol on Standard Grade pass for the following subjects:

- English
- Mathematics
- Biology/Physiology or
- Physical Science

The applicant with a National Senior Certificate with a Diploma endorsement must have the following subjects and rating codes:

(Exclude Life Orientation when calculating APS)

Minimum APS	Language of teaching and Learning (English)	Mathematics	Mathematical Literacy	Physical Sciences	Life Sciences
21	**4**	**4**	**Not accepted**	**4**	**4**

In addition to the above applicants must undergo structured interview, a South African Civil Aviation Authority (SACAA) Class II Cabin Crew Medical Assessment (or equivalent), physical fitness assessment (including swimming proficiency), acrophobia and claustrophobia testing and an English language proficiency assessment prior to registration.

Recognition of Prior Learning (RPL) will be applied on an individual basis against the exit-level outcomes of the programme on a case-by-case basis and will be conducted in accordance with the UJ's RPL Policy and Professional Board requirements.

HS4.3.5 Pass requirements

1. Students must pass all components of the module(s) to obtain credit for the module(s).
2. Students may graduate once they have passed all of the modules.
3. The Physical Preparedness module will be considered a co-requisite for any registered student, regardless of having passed the module in the prior academic semester or year.
4. Students must pass a minimum of 50% of the modules to qualify for readmission to the programme.
5. Students may not register for the same module for a third time without permission from the Head of Department and Executive Dean of the Faculty.
6. A range of assessment strategies and weightings, as laid out in the relevant module's learning guide, explains the continuous assessment criteria specified for promotion to the next year of study.

HS4.3.6 Curriculum

All modules are Continuous Evaluation modules.

First year		
Module name	**Module code**	**Prerequisite code**
Semester one		
Basic Sciences: Chemistry	CET1DA1	
Communications in the Rescue Environment	CRE01A1	
Foundations of Rescue Practices	FRP01A1	
High Angle Rescue	HAR01A1	

Basic Sciences: Physics 1A	PHY1DA1	
Rescue Technologies and Equipment	RTE01A1	
Rural and Wilderness Rescue Operations	RWR01A1	FRP01B1, PHY1D1B CET1DB1, RTE01B1 CRE01B1, HAR01B1
Urban Rescue Operations	URO01A1	FRP01B1, PHY1D1B CET1DB1, RTE01B1 CRE01B1, HAR01B1
Semester two		
Basic Sciences: Chemistry 1B	CET1DB1	
Communications in the Rescue Environment	CRE01B1	
Foundations of Rescue Practices	FRP01B1	
High Angle Rescue	HAR01B1	
Basic Sciences: Physics	PHY1D1B	
Rescue Technologies and Equipment	RTE01B1	
Rural and Wilderness Rescue Operations	RWR01B1	FRP01A1, PHY1DA1 CET1DA1. RTE01A1 CRE01A1, HAR01A1
Urban Rescue Operations	URO01B1	FRP01A1, PHY1DA1 CET1DA1. RTE01A1 CRE01A1, HAR01A1
Year Modules		
Physical Preparedness	PHP01Y1	

***Physical Preparedness (PHP01Y1) is a co-requisite to all modules.**

HS4.4 BACHELOR OF HEALTH SCIENCES IN EMERGENCY MEDICAL CARE (B9E01Q)

Duration of programme
Full-time: Minimum 4 years and Maximum 6 years
NQF Level 8, 480 Credits

HS4.4.1 Purpose

The purpose of this qualification is to develop an Emergency Care Practitioner competent in the clinical knowledge and skills required for the emergency medical care and medical recue profession.
The graduate will be able to competently apply an integration of theoretical principles, proven techniques, practical experience and appropriate clinical skills in order to:

- Provide an independent specialised emergency medical care and rescue service to all sectors of the community.
- Demonstrate skills in management and research working independently and in a supervisory capacity within emergency services and the healthcare team.
- Become a reflective practitioner and lifelong student within the emergency medical

care profession.
- Successful completion of this qualification will entitle the student to register with the Health Professions Council of South Africa as an Emergency Care Practitioner.

HS4.4.2 Outcomes

1. Demonstrate effective communication and apply the principles of medical ethics, professional behaviour, and the legal framework to the context within which emergency care practitioners operate while maintaining physical fitness, personal health, wellness and safety.
2. Provide and facilitate emergency medical care to all sectors of the community utilising specialised clinical strategies and technologies.
3. Perform medical rescue in a wide range of contexts.
4. Provide in-service training in emergency medical care and rescue.
5. Demonstrate an understanding of the structure and functioning of Emergency Medical Service (EMS) systems in South Africa including the provision of operational and clinical supervision within an emergency medical and rescue service.
6. Develop research skills, participate and conduct research in emergency medical care and rescue.

HS4.4.3 Rules of access and admission requirements

For applicants who obtained a Grade 12 prior to 2008:

1. A Senior Certificate with university exemption or an equivalent qualification at an equivalent standard, as determined by a Status Committee, with 2 of the following modules:
   1.1 Biology or Physiology with at least a Higher Grade D or Standard Grade C symbol.
   1.2 Physical Science with at least a Higher Grade D or Standard Grade C symbol.
   1.3 Mathematics with at least a Higher Grade D or Standard Grade C symbol.

For applicants who obtained a Grade 12 during or after 2008:

A National Senior Certificate (NSC) - APS Score with minimum requirements as shown below:
(Exclude Life Orientation when calculating APS)

Minimum APS	Language of teaching and Learning (English)	Mathematics	Mathematical Literacy	Physical Sciences	Life Sciences
26	**5**	**4**	**Not accepted**	**4**	**4**

Selection criteria

Selection will be based on:

- academic merit;
- a structured personal interview;
- a phobia evaluation;
- passing of a Class II Aviation or equivalent medical examination;
- a physical preparedness evaluation;

Evidence of community service and or previous appropriate experience is a recommendation.

HS4.4.4 Pass requirements

1. Due to the integrated nature of certain modules, individual credits are NOT retained unless all are passed within the same academic year. This ruling applies to the following modules:

1st year	2nd year	3rd year	4th year
EMC01Y1	EMC01Y2	EMC01Y3	EMC01Y4
EMC02Y1	EMC02Y2	EMC02Y3	EMC02Y4
EMC03Y1	EMC03Y2	EMC03Y3	EMC03Y4
PFP01Y1	PFP02Y2	PFP03Y3	PFP04Y4

2 Students may enrol for a module in the following year, provided that:
- 2.1 They have passed the prerequisite modules.
- 2.2 The module selection does not lead to timetable clashes.
- 2.3 In the case of Medical Rescue, the student has passed the fitness and swimming proficiency assessment.

3 First-year students must pass a minimum of 60% of the first-year modules to qualify for readmission to the programme.

4 100% attendance of all theory lecturers, practical, experiential or clinical components as well as tutorials is compulsory.

5 Students who fail to attend theory classes will be requested to provide in writing reasons for their non-attendance.

HS4.4.5 Clinical practice (Work integrated learning)

1 Students must, by the end of each year, complete the requirements which are detailed in the EMC 1, 2, 3 and 4 Study Guides.

2. Clinical Learning and rescue practical are integrated into the academic programme in conjunction with cooperative education and training partners, for this reason, shift rosters cannot be personalized.

3. Due to the nature of emergency medical care and rescue work students registering for this programme may be required to work after-hours, weekends and over religious holidays. We are regretfully unable to cater for individual requests not to work on certain days and times.

HS4.4.6 Specific rules and regulations for Emergency Medical Care students

1. Students must familiarize themselves with the internal rules and regulations of the Department of Emergency Medical Care. These rules and regulations, as set out in the Departmental policy document, are binding.
2. The programme is not offered as a limited contact or distance- learning programme. Students who elect to leave the country will be unable to continue with their studies.
3. All students (even if not registered for Clinical Practice within that academic year) are required to see a minimum number of patients each year as determined by the department whilst they are registered. This is a requirement to ensure that clinical competencies are retained.
4. All registered students are required to attend physical training sessions as rostered.
5. Students may not register for a third time for the same module.
6. Students are required to adhere to the requirements of the department relating to uniform and personal appearance.
7. Students have maximum of 6 years to complete the four-year degree.

HS4.4.7 Curriculum

All modules are Continuous Evaluation modules.

First year		
Module name	**Module code**	**Prerequisite code**
Semester one		
Computing Literacy	CSL01A1	
Basic Science: Physics	PHB1AA1	
Semester two		
Basic Science: Chemistry	CHB1BB1	
Mental Health and Wellness	MHW1BB1	
Year modules		
Emergency Medical Care 1 Theory	EMC01Y1	
Emergency Medical Care 1 Practical	EMC02Y1	
Clinical Practice 1	EMC03Y1	
Foundations of Professional Practice	FPP01Y1	
Anatomy 1	ANT01Y1	
Physiology 1	PHY01Y1	
Physical Preparedness 1	PFP01Y1	
Second year		
Module name	**Module code**	**Prerequisite code**
Semester two		
Primary Health Care 2	PHC01B2	
Year modules		
Emergency Medical Care 2 Theory	EMC01Y2	EMC01Y1 EMC02Y1 EMC03Y1 PHY01Y1 CHB1BB1 ANT01Y1 MHW1BB1 CSL01A1
Emergency Medical Care 2 Practical	EMC02Y2	
Clinical Practice 2	EMC03Y2	

Diagnostics 1	EMC04Y2	FPP01Y1 PHB1AA1
High Angle 1	HAR01Y2	EMC01Y1 EMC02Y1 EMC03Y1 PHY01Y1 CHB1BB1 PFP01Y1 PHB1AA1
Fire Search & Rescue 1	FSR01Y2	
Motor Vehicle Rescue	MVR01Y2	
Industrial & Agricultural Rescue	IAR01Y2	
Physiology 2	PHY02Y2	ANT01Y1 PHY01Y1
General Pathology 1	GPA01Y2	EMC01Y1 EMC02Y1 EMC03Y1 ANT01Y1 PHY01Y1
Physical Preparedness 2	PFP02Y2	PFP01Y1
Third year		
Module name	**Module code**	**Prerequisite code**
Year modules		
Emergency Medical Care 3 Theory	EMC01Y3	EMC01Y2 EMC02Y2 EMC03Y2 PHC01B2 PHY02Y2 GPA01Y2
Emergency Medical Care 3 Practical	EMC02Y3	
Clinical Practice 3	EMC03Y3	
High Angle 2	HAR02Y3	HAR01Y2 FSR01Y2 MVR01Y2 IAR01Y2 PFP02Y2 EMC01Y2 EMC02Y2 EMC03Y2
Wilderness Search and Rescue	WSR01Y3	
Aviation Rescue	AVR01Y3	
Aquatic Rescue	AQR01Y3	
Pharmacology 1	PHA01Y3	EMC01Y2 EMC02Y2 EMC03Y2 EMC04Y2 PHC01B2 PHY02Y2 GPA01Y2

Research Methodology EMC	RMT01Y3	EMC01Y2 EMC02Y2 EMC03Y3 EMC04Y4 GPA01Y2 PHY02Y2 PHC01B2
Physical Preparedness 3	PFP03Y3	PFP02Y2
Fourth Year		
Module name	**Module code**	**Prerequisite code**
Year modules		
Intensive and Specialized Care	EMC01Y4	EMC01Y3 EMC02Y3 EMC30Y3 PHA01Y3
Paediatric and Neonatal Emergency Care	EMC02Y4	
Clinical Practice 4	EMC03Y4	
Research Elective 4	REP01Y4	RMT01Y3 EMC01Y3
Educational Techniques	EDT01Y4	EMC01Y3 EMC02Y3 EMC03Y3
Emergency Service Administration	ESA01Y4	
Disaster Management	DIS01Y4	
Confined Space Rescue	CSR01Y4	HAR02Y3 WSR01Y3 AVR01Y3 AQR01Y3 PFP03Y3 EMC01Y3 EMC02Y3 EMC03Y3
Hazardous Materials Rescue	HAZ01Y4	
Trench Rescue	TRR01Y4	
Structural Collapse Rescue	SCR01Y4	
Physical Preparedness 4	PFP04Y4	PFP03Y3

HS4.5 POSTGRADUATE DIPLOMA IN CLINICAL SIMULATION (E9CSMQ)

Mode of offering: Distance (Online) Programme
Duration of programme
Part-time: Minimum 2 years and maximum 3 years
NQF Level 8, Credits 124

HS4.5.1 Purpose

The purpose of the PGDip Clinical Simulation is to develop health care educators who are skilled in the integration and application of clinical simulation theories and practises in their own teaching, learning, assessment, and research. This requires problem-solving skills and critical, reflective thinking, as well as the ability to report on clinical simulated teaching principles in ways appropriate to the relevant academic and disciplinary discourses. The

graduate will be able to competently apply an integration of theoretical principles, proven techniques, practical experience, and appropriate skills into their own teaching practises.

HS4.5.2 Outcomes

1. Demonstrate a deep understanding of the development and application of simulation as a strategy for health care education.
2. Apply adult learning theories to the construction and application of simulation-based learning experiences.
3. Describe and critically appraise current simulation technologies and modalities with regard to their value and application.
4. Design and implement simulation-based learning experiences using appropriate teaching, learning and assessment strategies.
5. Describe the core principles associated with the management of simulation facilities and related resources.
6. Critically appraise research methodologies and approaches used in simulation contexts.

HS4.5.3 Rules of access and admission requirements

The minimum admission requirement is an appropriate Health Sciences related Bachelor's degree or Advanced Diploma or equivalent qualification (a minimum of an NQF level 7). The candidate should have experience in health professions education, with a minimum of 2 years' experience in their relevant field. This includes clinical or profession specific experience. Additionally, the candidate also needs access to a simulation laboratory/clinic where they will have the opportunity to conduct and participate in simulated activities. This may include conducting and participating in formal and non-formal simulation activities. Applicants would need to have access to hardware required to successfully navigate the online nature of the programme. This includes a laptop, tablet or desktop computer with suitable word processing applications and an internet connection. The use of Recognition of Prior Learning for access onto the programme will be considered provided this is in-line with the overall enrolment plan, related UJ and Council on Higher Education policies and procedures. International applicants will be assisted with application for the programme once a South African Qualifications Authority (SAQA) equivalency for their existing qualifications, is established.

HS4.5.4 Selection criteria

Once the minimum admission requirements are in place, applicants will apply via the UJ website. Once applications have been received by the Department, selection will be based on the candidates' prior experience and qualification. Experience in health professions education would be advantageous. The selection will further be guided by the enrolment strategy of the Department and the Faculty.

HS4.5.5 Pass requirements

1. Students retain credits for all modules passed.
2. Students must pass all components of the module(s) to obtain credit for the module(s).
3. Students may graduate once they have passed all the modules.
4. Students must pass a minimum of 50% of the modules to qualify for readmission to the programme.
5. Students may not register for the same module for a third time without permission from the Head of Department and Executive Dean of the Faculty.
6. Students have a maximum of two years full-time and three years part-time to complete the qualification.
7. A range of assessment strategies and weightings, as laid out in the relevant module's learning guide, explains the continuous assessment criteria specified for promotion to the next year of study.

Curriculum

First year		
Module name	**Module code**	**Prerequisite code**
Semester one		
Adult Learning and Simulation Pedagogy	ASP01A1	
Introduction to Simulation	ITS01A1	
Clinical Simulation and Instructional Design	CSD01A1	
Simulation Technologies and Modalities	STM01A1	
Facilities and Resource Management	FRM01A1	STM01B1
Simulation and Research	SIR01A1	ITS01B1
Semester two		
Adult Learning and Simulation Pedagogy	ASP01B1	
Introduction to Simulation	ITS01B1	
Clinical Simulation and Instructional Design	CSD01B1	
Simulation Technologies and Modalities	STM01B1	
Facilities and Resource Management	FRM01B1	STM01A1
Simulation and Research	SIR01B1	ITS01A1
Year Module		
Simulation Practices	SIP01Y1	

HS4.6 MASTER OF EMERGENCY MEDICAL CARE (M9E01Q)

Duration of programme
Full-time: Minimum 1 year and Maximum 2 years
Part-time: Minimum 1 year and Maximum 3 years
NQF Level 9, 180 Credits
Research dissertation 100%

HS4.6.1 Purpose

The primary purpose of this qualification is to provide qualifying students with the ability to:

1. Perform independent scientific research with an original component
2. Contribute to knowledge of and insight into emergency medical care as well as the specific discipline of research
3. Display skills in related research methodologies and in proper formulation through a master's dissertation
4. Reflect upon decision-making, self-directedness and contributions to medical science.

HS4.6.2 Outcomes

The student will be able to:

1. Identify, formulate, prepare and solve research problems.
2. Execute the research project at the appropriate level.
3. Collect, organize, check, evaluate and write a proper literature review organizing the appropriate information in an understandable and logic manner.
4. Acquire learning abilities in the research context including the assessment of scientific literature, execution of research methodologies including the gathering of data and evaluating the information obtained.
5. Report research findings at the appropriate level.
6. Make conclusions, suggestions and recommendations based on the data collected that are reasonable and justifiable.

HS4.6.3 Rules of access and admission requirements

A 4-year Bachelor's Degree in Emergency Medical Care or an equivalent qualification at an equivalent standard as determined by a Status Committee and approved by the Faculty Board.

Selection criteria

Selection will be based on:

- Consideration of a draft proposal
- Prior academic performance
- Structured personal interview

HS4.6.4 Pass requirements

Students are assessed via submission of a dissertation in line with the Senate Higher Degrees Policy of the University

HS4.6.5 Curriculum

A research project and a dissertation. The research component is 100%.

Module name	**Module code**
Semester one	
Research Dissertation: Emergency Medical Care	EMC9X01
Semester two	
Research Dissertation: Emergency Medical Care	EMC9X02

HS4.7 DOCTOR OF PHILOSOPHY IN HEALTH SCIENCES: EMERGENCY MEDICAL CARE (P9H16Q)

Duration of programme
Full-time: Minimum 2 years and Maximum 4 years
Part-time: Minimum 2 years and Maximum 5 years
NQF level 10, 360 Credits
Research thesis 100%

HS4.7.1 Purpose

The purpose of the Doctor of Philosophy: Emergency Medical Care Degree is to promote the career advancement of graduates in the field of emergency medical care and rescue by enabling students to conduct independent, novel research in emergency medical care and rescue.

This Doctoral Degree aims to provide members of the profession an opportunity to conduct independent original research through scientific discourse and independent investigation contributing to the development of the field of emergency medical care and rescue. The outcome of this field-specific Doctoral Degree is a comprehensive and systematic grasp of an in-depth body of knowledge in the field of emergency medical care and rescue with the development of specialist expert knowledge, thereby contributing to evidence based professional practice.

HS4.7.2 Outcomes

1. Demonstrate a systematic understanding of the field of Emergency Medical Care and Rescue and a mastery of the skills and methods of research associated with the field of Emergency Medical Care and Rescue.
2. Demonstrate the ability to conceive, design and implement research with scholarly integrity.
3. Make a contribution through original research that extends the frontier of knowledge by developing a substantial body of work in an area of Emergency Medical Care and Rescue, some of which merits national or international refereed publication.

HS4.7.3 Rules of access and admission requirements

Prior learning

It is assumed that the student has specialist knowledge in research methodology and:

- Is knowledgeable about ethical considerations in relation to research in Emergency Medical Care and Rescue.
- Is competent in research proposal writing.
- Is competent to undertake research.
- Is competent in report writing and dissemination.
- Has expertise in the area to be investigated.

Access to the Qualification

An appropriate Master's Degree in the field of Emergency Medical Care and Rescue is required. Alternatively, conferment of status may be granted through an internal evaluation process in alignment with institutional policies.

Applications from persons with an M Tech degree in Emergency Medical Care or equivalent qualifications will be considered by a constituted status committee in line with the Universities and Faculties regulations.

Selection criteria

The selection of Doctoral students will be done in accordance with rules and regulations of the Higher Degrees Committee of the University of Johannesburg as stipulated for inter-disciplinary programmes:

"In the case of interdisciplinary degrees, the Executive Dean of the home faculty (i.e. the one originally enrolling the student and registering the project), in consultation with the HODs concerned and/or supervisors, determines whether the applicant's prior study provides a sufficient foundation for the proposed Doctoral study, and may require a supplementary study programme as a condition for admission. Assessment of prior knowledge (which may be an essay or an oral assessment) may be set as a formal prerequisite for admission or continuation. The Executive Dean concerned (as well as other Executive Deans if involved) signs the application for admission and indicates any specific conditions that are laid down. The proposal is signed by all supervisors concerned, and is then processed according to the normal procedures obtaining in that (home) faculty. Specific conditions laid down for the programme must be stated in the proposal."

The basic guideline is that students must have obtained a Masters in Emergency Medical Care or equivalent qualification in Emergency Medicine. In addition, the student must be able to develop a research proposal for the intended research project. The selection and allocation of postgraduate students depends on the availability of supervisors.

HS4.7.4 Pass requirements

1. The final outcome of a thesis which is ratified in accordance with the post graduate policy approved by the Senate. The results are considered by the Faculty Higher Degrees Committee for approval, sent to Faculty Board for ratification and then to Senate Higher Degrees Committee for noting in accordance with the University's Higher Degrees and Postgraduate Studies Policy.
2. It is expected of the student, in collaboration with the supervisor, to submit a journal article for publication in accordance with UJ policy and procedures.

HS4.7.5 Curriculum

A research thesis. The research component is 100%.

Module name	**Module code**
Semester one	
Research Project and Thesis: Health Sciences (Emergency Medical Care)	REC10X1
Semester two	
Research Project and Thesis: Health Sciences (Emergency Medical Care)	REC10X2

HS5.0 DEPARTMENT OF ENVIRONMENTAL HEALTH

HS5.1 BACHELOR OF ENVIRONMENTAL HEALTH (B9ENV1)

Duration of programme
Full-time: Minimum 4 years and Maximum 6 years
NQF Level 8, 480 Credits

HS5.1.1 Purpose

The purpose of the BEH programme is to produce graduates who have a systematic and coherent body of knowledge to apply principles and practices of Environmental Health; the

ability to access and evaluate scientific information and have a high level of analytical, cognitive and generic skills; To provide graduates opportunities for continued personal intellectual growth, advancing with postgraduate study, contributing to the social upliftment of society constructively; To provide society with graduates who demonstrate initiative and responsibility; be involve in science and research development; to transform the leadership base in South Africa and conduct themselves in a professional and ethical manner both in the workplace and society as required by the HPCSA.

HS5.1.2 Outcomes

1. Integrate and apply foundational, scientific principles and knowledge to Environmental Health sciences. [Range of scientific principles and knowledge includes, but is not limited to Chemistry, Microbiology, Physics, Mathematics, Ecology/Geology, Anatomy and Physiology (human and animal), Sociology and Anthropology;
2. Manage Environmental Health programmes that are not limited to environmental health risks, health impact assessments but rather on the prevention, promotion within natural, socio-economic, built and working environments within the scope of the profession. [Range: manage refers to: design, develop, implement and evaluate];
3. Demonstrate project management skills within a project management life-cycle;
4. Conduct and participate in Environmental Health research.
5. Demonstrate interpersonal relations and professional behavior in terms of the ethical code.

HS5.1.3 Rules of access and admission requirements

1. The admission requirements for this programme will adhere to the University of Johannesburg's Policy for Admission and Selection, which is current at the time of the inception of this programme.
2. A Senior Certificate or an equivalent qualification at an equivalent standard as determined by a Faculty Status Committee, with the following Subjects:

   Mathematics at NQF Level 4: NSC achievement rating of (50-59%)
   Life Sciences at NQF Level 4: NSC achievement rating of (50-59%)
   Physical Science at NQF Level 4: NSC achievement rating of (50-59%).
   Any other two (2) subjects at level 4

A National Senior Certificate (NSC) - APS Score with minimum requirements as shown below:

(Exclude Life Orientation when calculating APS)

Minimum APS	**Language of teaching and Learning**	**Mathematics**	**Mathematical Literacy**	**Physical Sciences**	**Life Sciences**
24	**4**	**4**	**Not accepted**	**4**	**4**

HS5.1.4 Curriculum

First year		
Module name	**Module code**	**Prerequisite code**
Semester one		
Biochemistry	BICH1A1	
Sociology 1A	SOC1AA1	
Sustainability Development & Ecology	SDEEH01	
Introduction to Environmental Health	ITENV01	
Computer Literacy	CSL01A1	
Year modules		
Chemistry	CETH1Y1	
Physics	PHBH1Y1	
Anatomy & Physiology	APENV01	
Microbiology	MCBH1Y1	
Applied Communications Skills	COM1001	
Second year		
Module name	**Module code**	**Prerequisite code**
Semester one		
Research Methodology: Module A	RMENVA2	SOC1AA1 CSL01A1
Year modules		
Planning for Built Environment	PFBEE02	SDEEH01
Food and Meat Hygiene	FMHEEH0	APENV01 MCBH1Y1
Infectious Disease Epidemiology	IDEEH02	MCBH1Y1
Community Development 1	CDENV02	COM1001 SOC1AA1
Environmental Pollution: Water, Waste and Air	EPWWA02	SDEEH01 ITENV01
Occupational Health and Safety: Physical Stress	OHSPS02	CETH1Y1 PHBH1Y1 APENV01
Third year		

Module name	Module code	Prerequisite code
Semester One		
Research Methodology: Biostatistics	RMBEHB3	RMENVA2
Year Modules		
Environmental Epidemiology	EEENV03	IDEEH02
Environmental Health Management and Administration	EHMAA03	CDENV02
Food Processing and Safety	FPSEH03	FMHEEH0
Occupational Health and Safety: Chemical / Biological	OHSCB03	OHSPS02
Water Quality and Waste Management	WQAWM03	EPWWA02
Fourth year		
Module name	**Module code**	**Prerequisite code**
Year Modules		
Air Quality Management	AQMEH04	WQAWM03
Disaster Management	DMENV04	FPSEH03 EEENV03
Management Practice	MPENV04	EHMAA03
Environmental Management (NEMA & EMI)	EMNME04	OHSCB03 WQAWM03
Food Safety Management	FSMEH04	
Occupational Health and Safety: Management Systems	OHSMS04	OHSCB03
Research Project	RPENV04	RMBEHB3
Water Quality and Waste Management	WQAWM04	WQAWM03

HS5.2 **<u>MASTER OF HEALTH SCIENCES: ENVIRONMENTAL HEALTH (M9EH1Q)</u>**
Duration of programme
Full-time: Minimum 1 year and Maximum 2 years
Part-time: Minimum 1 year and Maximum 3 years
NQF level 9
Research dissertation 100%

HS5.2.1 Purpose

To provide students with the knowledge and skills to conduct independent research through advanced scientific problem solving skills, and the application of critical and reflective thinking in the field of Environmental Health. The qualification is intended for persons who

will contribute to knowledge generation through independent research to develop and advance the profession of Environmental Health.

HS5.2.2 Outcomes

On completion of these programme the student will be able to apply scientific research, problem-solving, analytical, critical thinking and reflective skills to perform research and compile a research dissertation in a chosen field of specialisation within Environmental Health.

HS5.2.3 Rules of access and admission requirements

A Bachelor's Degree in Environmental Health at NQF level 8 with an average of 65% or an equivalent qualification at an equivalent standard as determined by the Departmental Research Committee and approved by the Faculty Board. Submission of a draft proposal to the Departmental Research Committee and approval thereof is required in addition to the online application. The selection and allocation of postgraduate students depends on the availability of supervisors.

Selection criteria

Selection is based on approval by the Departmental Research Committee.

HS5.2.4 Pass requirements

Refer to the Academic Regulations of the University of Johannesburg.

HS5.2.5 Curriculum

A research project and a dissertation:

Module name	Module code
Semester one	
Research Project and Dissertation: Health Sciences (Environmental Health)	DEH9XA1
Semester two	
Research Project and Dissertation: Health Sciences (Environmental Health)	DEH9XB1

HS5.3 MASTER OF PUBLIC HEALTH (M9EN2P)

Online Programme
Duration of programme
E-Learning: Minimum 2 years and maximum 3 years
NQF Level 9, 180 Credits
Course work 70% and minor dissertation 30%

HS5.3.1 Purpose

The purpose of the programme is to qualify health professionals who at the end of the programme will have been empowered to analyse, strategize and offer solutions to challenges faced by Sub-Saharan countries including South Africa with respects to Environmental and Occupational threats and risks

HS5.3.2 Outcomes

On completion of this programme students will be able to:

1. Contextualise Public Health within the region and relevant countries' health systems, with specific focus on environmental and occupational health.
2. Conduct health risk assessments and to enumerate, understand, mitigate and manage these risks.
3. Develop relevant epidemiology and research methodologies for local, regional environmental and occupational health risks.
4. Develop a knowledge of related health economies.
5. Unpack environmental and occupational disasters that have local and regional relevance as learning opportunities in primary, secondary and tertiary prevention situations.
6. Take strategic decisions within the context of environmental and occupational health domains.

HS5.3.3 Rules of access and admission requirements

The minimum admission requirement is a Bachelor's Degree at NQF 8 in a related Health Field e.g Environmental Health, Epidemiology, MBChB, Social Work, Physiotherapy, Nursing and other related equivalent qualification. Three to five years' work experience in the Health sector inclusive of management position, research and/or project management. Applications from persons with equivalent qualifications will be considered by a constituted status committee in line with the University's and Faculty's regulations.

Selection criteria

Selection is based on approval by the Faculty and programme co-ordinator. The selection of Master's students will be done in accordance with rules and regulations of the Higher Degrees Committee of the University of Johannesburg as stipulated for inter-disciplinary programmes.

HS5.3.4 Pass requirements

Successful completion of the course work modules and minor dissertation. The MPH will only be offered on a part time basis over 2 years minimum and 4 years maximum.

HS5.3.5 Curriculum

First year		
Module name	**Module code**	**Prerequisite code / Exposure**
Principle and Practice of Environmental Health A	PPECAP1	
Principle and Practice of Environmental Health B	PPECBP1	PPECAP1 (pre-requisite)
Environmental Epidemiology, Biostatistics and Research Methodologies A	EEBCAP1	PPECAP1 (pre-requisite)

Environmental Epidemiology, Biostatistics and Research Methodologies B	EEBCBP1	PPECAP1 (exposure module) EEBCAP1 (exposure module)
Health Promotion and Health Behaviour	HPBC2P1	PPECAP1 (exposure module)
Environmental Health Risk and Impact Assessment	EHRC2P1	PPECAP1 (exposure module)
Emerging National and Continental Environmental Health Challenges	ENCC2P1	PPECAP1 (exposure module)
African Health System, Health and Environmental Politics and Management	AHSC2P2	PPECAP1 (exposure module)
Health Systems, Funding Modules and Health Economics	HSFC2P2	PPECAP1 (exposure module)
Minor-Dissertation: A	EMDCAP2	PPECBP1 (pre-requisite) EEBCAP1 (pre-requisite)
Minor-Dissertation: B	EMDCBP2	EMDCAP2 (pre-requisite)
Minor-Dissertation: C	EMDCCP2	EMDCBP2 (pre-requisite)
Minor-Dissertation: D	EMDCDP2	EMDCCP2 (pre-requisite)
Minor-Dissertation: E	EMDCEP2	EMDCDP2 (pre-requisite)
Minor-Dissertation: F	EMDCFP2	EMDCEP2 (pre-requisite)
Minor-Dissertation: G	EMDCGP2	EMDCFP2 (pre-requisite) EEBCBP1 (pre-requisite)
Minor-Dissertation: H	EMDCHP2	EMDCGP2 (pre-requisite)
Minor-Dissertation: I	EMDCIP2	EMDCHP2 (pre-requisite)

HS5.4 DOCTOR OF PHILOSOPHY IN HEALTH SCIENCES: ENVIRONMENTAL HEALTH (P9HS3Q)

Duration of programme
Full-time: Minimum 2 years and Maximum 4 years
Part-time: Minimum 2 years and Maximum 5 years
NQF level 10, 360 Credits
Research thesis 100%

HS5.4.1 Purpose

The purpose of this qualification is to provide qualifying students with analytical specific problem solving and reflective competencies at an advanced academic level culminating in the production of a thesis in the field of Environmental Health.

HS5.4.2 Outcomes

1. The student will be able to apply high-level critical thinking, reflective and research skills in order to perform research in the specialised area of Environmental Health.
2. The student will be able to conceptualise new research initiatives and new knowledge in the field of Environmental Health.

HS5.4.3 Rules of access and admission requirements

A Master's degree with an average of 65% in Environmental Health or an equivalent qualification at an equivalent standard as determined by the Departmental Research Committee and approved by the Faculty Board. Submission of a draft proposal to Departmental Research Committee and approval thereof is required in addition to the online application. The selection and allocation of postgraduate students depends on the availability of supervisors.

Selection criteria

Selection is based on academic merit and on approval by the Departmental Research Committee

HS5.4.4 Pass requirements

Refer to the Academic Regulations of the University of Johannesburg.

HS5.4.5 Curriculum

A research thesis. The research component is 100%.

Module name	Module code
Semester one	
Research Project and Thesis: Health Sciences (Environmental Health)	REH10X1
Semester two	
Research Project and Thesis: Health Sciences (Environmental Health)	REH10X2

HS5.5 DOCTOR OF PHILOSOPHY IN HEALTH SCIENCES: PUBLIC HEALTH (P9HS6Q)

Duration of programme
Full-time: Minimum 2 years and Maximum 4 years
Part-time: Minimum 2 years and Maximum 5 years
NQF level 10, 360 Credits
Research thesis 100%

HS5.5.1 Purpose

The purpose of this qualification is to provide qualifying students with advanced analytical, problem solving and reflective competencies as specialist in Public Health culminating in the production of a thesis and publications in Public Health.

HS5.5.2 Outcomes

1. The student will be able to apply high-level critical thinking, reflective and research skills in order to perform research in the specialised area of Environmental Health.
2. The student will be able to make an original contribution to the knowledge content of the discipline of Public Health through independent research.

HS5.5.3 Rules of access and admission requirements

A Master's Degree with an average of 65% in Public Health or an equivalent qualification at an equivalent standard as determined by the Departmental Research Committee and approved by the Faculty Board. Submission of a draft proposal to Departmental Research Committee and approval thereof is required in addition to the online application. The selection and allocation of postgraduate students depends on the availability of supervisors.

Selection criteria

Selection is based on academic merit and on approval by the Departmental Research Committee.

HS5.5.4 Pass requirements

Refer to the Academic Regulations of the University of Johannesburg

HS5.5.5 Curriculum

A research thesis. The research component is 100%.

Module name	Module code
Semester one	
Research Project and Thesis: Health Sciences (Public Health)	RPH10X1
Semester two	
Research Project and Thesis: Health Sciences (Public Health)	RPH10X2

HS6.0 DEPARTMENT OF HUMAN ANATOMY AND PHYSIOLOGY

HS6.1 MASTER OF HEALTH SCIENCES: HUMAN PHYSIOLOGY (M9HA1Q)

Duration of programme
Full-time: Minimum 1 year and Maximum 2 years
Part-time: Minimum 1 year and Maximum 3 years
NQF level 9; 180 Credits
Research thesis 100%

HS6.1.1 Purpose

The primary purpose of this qualification is to provide qualifying students with the ability to perform independent scientific research and contribute to the knowledge of and in Human Physiology through the specific discipline of research.

HS6.1.2 Outcomes

At the end of the qualification, the student will be able to:

1. Reflect upon, identify, formulate, prepare and solve research problems related to Human Physiology.
2. Execute a research project at the appropriate level by applying related research methodologies and in the proper formulation and submission of a Master's dissertation
3. Acquire learning research competencies and abilities including the critical assessment of scientific literature, the execution of research methodologies including data gathering, its evaluation and reporting and the reasonable and justifiable argument of conclusions and future research recommendations based on the research project undertaken.

HS6.1.3 Rules of access and admission requirements

An Honours qualification in Human Physiology (NQF Level 8) or an equivalent qualification at an equivalent standard as determined by a Status Committee and approved by the Faculty Board.

Selection criteria

Selection will be based on:

- Consideration of a draft proposal after discussion with a potential identified supervisor
- Prior academic performance.

HS6.1.4 Pass requirements

Students are assessed via submission of a dissertation in line with the Senate Higher Degrees Policy and Postgraduate Administration Processes Policies of the University

HS6.1.5 Curriculum

A research project and a thesis:

Module name	Module code
Semester one	
Research Project and Dissertation: Health Sciences (Human Physiology)	DHA9XA1
Semester two	
Research Project and Dissertation: Health Sciences (Human Physiology)	DHA9XB1

HS6.2 MASTER OF HEALTH SCIENCES: HUMAN ANATOMY (M9AT1Q)

Duration of programme
Full-time: Minimum 1 year and Maximum 2 years
Part-time: Minimum 1 year and Maximum 3 years
NQF level 9; 180 Credits
Research thesis 100%

HS6.2.1 Purpose

The primary purpose of this qualification is to provide qualifying students with the ability to perform independent scientific research and contribute to the knowledge of and in Human Anatomy through the specific discipline of research.

HS6.2.2 Outcomes

At the end of the qualification, the student will be able to:

7. Reflect upon, identify, formulate, prepare and solve research problems related to Human Anatomy.
8. Execute a research project at the appropriate level by applying related research methodologies and in the proper formulation and submission of a Master's dissertation
9. Acquire learning research competencies and abilities including the critical assessment of scientific literature, the execution of research methodologies including data gathering, its evaluation and reporting and the reasonable and justifiable argument of conclusions and future research recommendations based on the research project undertaken.

HS6.2.3 Rules of access and admission requirements

An Honours qualification in Human Anatomy (NQF Level 8) or an equivalent qualification at an equivalent standard as determined by a Status Committee and approved by the Faculty Board.

Selection criteria

Selection will be based on:

- Consideration of a draft proposal after discussion with a potential identified supervisor
- Prior academic performance.

HS6.2.4 Pass requirements

Students are assessed via submission of a dissertation in line with the Senate Higher Degrees Policy and Postgraduate Administration Processes Policies of the University

HS6.2.5 Curriculum

A research project and a thesis:

Module name	**Module code**
Semester one	
Research Project and Dissertation: Health Sciences (Human Anatomy)	DAT9XA1
Semester two	
Research Project and Dissertation: Health Sciences (Human Anatomy)	DAT9XB1

HS6.3 DOCTOR OF PHILOSOPHY IN HEALTH SCIENCES: HUMAN PHYSIOLOGY (P9H15Q)

Duration of programme
Full-time: Minimum 2 years and Maximum 4 years
Part-time: Minimum 2 years and Maximum 5 years
NQF level 10, 360 Credits
Research thesis 100%

HS6.3.1 Purpose

The primary purpose of this qualification is to provide the qualifying student with advanced critical, analytical, problem-solving and reflective competencies in order to make an original, novel contribution to the knowledge content of the Human Physiology through independent research.

HS6.3.2 Outcomes

At the end of the qualification, candidates should:

1. Have a thorough knowledge of the literature and a comprehensive understanding of the scientific techniques applicable to their research.
2. Be able to critically evaluate current research and implement current research techniques.
3. Be able to act autonomously in the creation, implementation and interpretation of research in their field.

HS6.3.3 Rules of access and admission requirements

The minimum admission requirement is the possession of an MSc in Human Physiology with a programme specific minimum level of competency on NQF Level 9, generating a minimum of 180 credits.

HS6.2.4 Pass requirements

1. Students are assessed via submission of a thesis in line with the Senate Higher Degrees Policy and Postgraduate Administration Processes Policies of the University.
2. The doctoral examination will be written and will deal with the content of a submitted thesis, as well as those subdivisions of the field of study on which the thesis is based, if requested.
3. It is expected of the candidate, in collaboration with the supervisor, to have prepared for publication two (2) manuscripts in a ready to submit format, in accordance with UJ policy and procedures.

HS6.2.5 Curriculum

A research project and a thesis:

Module name	**Module code**
Semester one	
Research Project and Thesis: Health Sciences (Human Physiology)	RHP10X1
Semester two	
Research Project and Thesis: Health Sciences (Human Physiology)	RHP10X2

HS6.4 DOCTOR OF PHILOSOPHY IN HEALTH SCIENCES: HUMAN ANATOMY (P9HS9Q)

Duration of programme
Full-time: Minimum 2 years and Maximum 4 years
Part-time: Minimum 2 years and Maximum 5 years
NQF level 10, 360 Credits
Research thesis 100%

HS6.4.1 Purpose

The primary purpose of this qualification is to provide the qualifying student with advanced critical, analytical, problem-solving and reflective competencies in order to make an original, novel contribution to the knowledge content of the Human Anatomy through independent research.

HS6.4.2 Outcomes

At the end of the qualification, candidates should:

1. Have a thorough knowledge of the literature and a comprehensive understanding of the scientific techniques applicable to their research.
2. Be able to critically evaluate current research and implement current research techniques.
3. Be able to act autonomously in the creation, implementation and interpretation of research in their field.

HS6.2.3 Rules of access and admission requirements

The minimum admission requirement is the possession of an MSc in Human Anatomy with a programme specific minimum level of competency on NQF Level 9, generating a minimum of 180 credits.

HS6.2.4 Pass requirements

1. Students are assessed via submission of a thesis in line with the Senate Higher Degrees Policy and Postgraduate Administration Processes Policies of the University.
2. The doctoral examination will be written and will deal with the content of a submitted thesis, as well as those subdivisions of the field of study on which the thesis is based, if requested.
3. It is expected of the candidate, in collaboration with the supervisor, to have prepared for publication two (2) manuscripts in a ready to submit format, in accordance with UJ policy and procedures.

HS6.2.5 Curriculum

A research project and a thesis:

Module name	**Module code**
Semester one	
Research Project and Thesis: Health Sciences (Human Anatomy)	RHA10X1
Semester two	
Research Project and Thesis: Health Sciences (Human Anatomy)	RHA10X2

HS7.0 DEPARTMENT OF MEDICAL IMAGING AND RADIATION SCIENCES (MIRS)

HS7.1 BACHELOR OF DIAGNOSTIC RADIOGRAPHY (B9M01Q)

Duration of programme
Full-time: Minimum 4 years and Maximum 6 years
NQF Level 8, 480 Credits
Work integrated learning (WIL) is incorporated into the employment contract with the respective clinical training centre.

HS7.1.1 Purpose

The purpose of this qualification is to develop a competent professional, who has thorough grounding in the knowledge and skills required for Diagnostic Radiography and who has gained experience in applying such knowledge and skills in accredited workplaces.

Successful completion of this qualification will entitle the student to register with the Health Professions Council of South Africa (HPCSA) as a Diagnostic Radiographer.

HS7.1.2 Outcomes

After completion of the programme, the student will be able to:

1. Perform routine and specialized radiographic procedures to produce images of diagnostic quality.
2. Access, organize and present information applicable to the radiography context in order to record, retrieve and communicate patient data.
3. Evaluate the quality of routine and specialized radiographic images and perform image interpretation to identify normal and abnormal appearances.
4. Plan, develop and apply total quality management appropriate to the diagnostic radiography context.
5. Perform safe and effective patient care in accordance with the patient's needs and departmental protocol to provide a quality service and to maintain the welfare of the patient.
6. Apply the principles of human rights, ethics and relevant medical law which ensure the well-being of the patient.
7. Apply the principles, specific knowledge, skills and values related to one of the chosen electives as listed.
8. Conduct research.

HS7.1.3 Rules of access and admission requirements

A Senior Certificate or an equivalent qualification at an equivalent standard as determined by a Faculty Status Committee, with the following Subjects:

- Mathematics with a Higher Grade D or Standard Grade C symbol.
- Physical Science with a Higher Grade D or Standard Grade C symbol.
- Biology with a Higher Grade C or Standard Grade B symbol or,
- Physiology with a Higher Grade C or Standard Grade B symbol.

A National Senior Certificate - APS Score with minimum requirements as shown below:
(Exclude Life Orientation when calculating APS)

Minimum APS	Language of teaching and Learning	Mathematics	Mathematical Literacy	Physical Sciences	Life Sciences
30	**5**	**4**	**Not accepted**	**4**	**5**

Selection criteria

Selection will be based on:

- Academic merits;
- Clinical placement in a Health Professional Council of South Africa accredited clinical training site.

HS7.1.4 Pass requirements

1. Students retain credits for all modules passed except where requirement 2 applies;
2. If a student fails any module in any level of study, he/she forfeits the credits for the Diagnostic Clinical Practice Module for that level of study but retain credits for all other modules passed.
3. Students may enrol for a module in the following year of study provided that they have passed the prerequisite module/s.
4. Students may not register for module combinations that lead to timetable clashes. The Department will make the final decision as to the modules for which the student may register.
5. Students are promoted:
   5.1 to the second year of study if they have passed all the first-year modules.
   5.2 to the third year of study if they have passed all the second-year modules.
   5.3 to the fourth year of study if they have passed all the third-year modules.
6 To be admitted to any module in the second or third academic year of study, and progress to the following year of study, students must have passed at least 60% of the modules in the previous year of study.
7 Students must pass at least 3 out of the 6 modules in the first year of study in order to qualify for readmission to the first year of study.
8 A range of assessment strategies and weightings, as laid out in the relevant module's learning guide, explains the continuous assessment criteria specified for promotion to the next year of study.

HS7.1.5 Specific rules and regulations for Medical Imaging and Radiation Sciences students

1. Students must familiarize themselves with the internal rules and regulations of the Department of Medical Imaging and Radiation Sciences. These rules and regulations, as set out in the Departmental policy document, are binding.
2. The programme is not offered as a limited contact or distance learning programme. Students who elect to leave the country will be unable to continue with their studies.
3. All students are required to complete a minimum number of clinical hours / competencies as stipulated by the HPCSA at the time.

HS7.1.6 Curriculum

All modules are Continuous Evaluation modules.

First year		
Module name	**Module code**	**Prerequisite code**
Year Modules		See admission requirements
Anatomy and Physiology 1	ANP01Y1	
Applied Physics	APP01Y1	
Diagnostic Clinical Practice 1	DCP01Y1	
Diagnostic Practice 1	DIP01Y1	
Imaging Technology 1	IMT01Y1	
Professional Practice	PRP01Y1	
Pathology	PTY01Y1	
Second year		
Module name	**Module code**	**Prerequisite code**
Year modules		
Anatomy and Physiology 2	ANP01Y2	ANP01Y1 PTY01Y1
Diagnostic Clinical Practice 2	DCP01Y2	DIP01Y1 DCP01Y1
Diagnostic Practice 2	DIP01Y2	DIP01Y1 DCP01Y1
Imaging Technology 2	IMT01Y2	IMT01Y1 APP01Y1
Professional Practice and Research Principles	PRR01Y2	PRP01Y1
Third year		
Module name	**Module code**	**Prerequisite code**
Year Modules		
Diagnostic Clinical Practice 3	DCP01Y3	DIP01Y2 DCP01Y2
Diagnostic Practice 3	DIP01Y3	DIP01Y2 DCP01Y2
Management Principles and Practice	MPP01Y3	

Research Methods	REM01Y3	PRR01Y2
Specialized Diagnostic Practice 3	SDP01Y3	DIP01Y2 DCP01Y2
Fourth Year		
Module name	**Module code**	**Prerequisite code**
Year Modules		
Diagnostic Clinical Practice 4	DCP01Y4	DIP01Y3 DCP01Y3
Diagnostic Practice 4	DIP01Y4	DIP01Y3 DCP01Y3
Radiographic Department Management Strategies	RGM01Y4	MPP01Y3
Research Project 4	RPR01Y4	REM01Y3
Specialized Diagnostic Practice 4	SDP01Y4	SDP01Y3 DIP01Y3 DCP01Y3
Choose one of the following elective modules		
Education in Health	EIH01Y4	SDP01Y3 DIP01Y3 DCP01Y3
OR		
Imaging Informatics	IMT01Y4	SDP01Y3 DIP01Y3 DCP01Y3

HS7.2 BACHELOR OF DIAGNOSTIC ULTRASOUND (B9M03Q)

Duration of programme
Full-time: Minimum 4 years and Maximum 6 years
NQF Level 8, 480 Credits
Work integrated learning (WIL) is incorporated into the employment contract with the respective clinical training centre.

HS7.2.1 Purpose

The purpose of the qualification is to develop a competent professional, who has a thorough knowledge and the skills required for the profession of Diagnostic Ultrasound and who has gained experience in applying such knowledge and skills in accredited workplaces.

Successful completion of this qualification will entitle the student to register with the Health Professions Council of South Africa (HPCSA) as a Sonographer.

HS7.2.2 Outcomes

After completion of the programme, the student will be able to:

1. Demonstrate the knowledge of natural and life sciences and pathology that enables application in the clinical field.
2. Assess and perform patient care in a manner which ensures that the patient's welfare is maintained.
3. Apply the principles of human rights, ethics and medical law which ensure the well-being of the patient.
4. Perform the sonographic protocols and procedures to produce optimum quality images in the specified areas of diagnostic ultrasound.
5. Critically assess the sonographic images and apply pattern recognition to determine aberrant appearances in keeping with pathology.
6. Apply the ultrasound specific measures which ensure that the health and safety of patients, self and colleagues are maintained.
7. Plan, develop and apply total quality management appropriate to the sonographic context.
8. Demonstrate research skills and foster a research climate in Ultrasound imaging.

HS7.2.3 Rules of access and admission requirements

A Senior Certificate or an equivalent qualification at an equivalent standard as determined by a Faculty Status Committee, with the following Subjects:

- Mathematics with a Higher Grade D or Standard Grade C symbol.
- Physical Science with a Higher Grade D or Standard Grade C symbol and
- Biology with a Higher Grade C or Standard Grade B symbol or
- Physiology with a Higher Grade C or Standard Grade B symbol.

A National Senior Certificate - APS Score with minimum requirements as shown below:
(Exclude Life Orientation when calculating APS)

Minimum APS	**Language of teaching and Learning (English)**	**Mathematics**	**Mathematical Literacy**	**Physical Sciences**	**Life Sciences**
30	**5**	**4**	**Not accepted**	**4**	**5**

Selection criteria

Selection will be based on:

- Academic merits.
- Clinical placement in a Health Professional Council of South Africa accredited clinical training site.

HS7.2.4 Pass requirements

1. Students retain credits for all modules passed except where requirement 2 applies;
2. If a student fails any module in any level of study, he/she forfeits the credits for the Diagnostic Ultrasound Clinical Practice Module for that level of study but retain credits for all other modules passed.
3. Students may enrol for a module in the following year of study provided that they have

passed the prerequisite module/s.

4. Students may not register for module combinations that lead to timetable clashes. The Department will make the final decision as to the modules for which the student may register.
5. Students are promoted:
   5.1 to the second year of study if they have passed all the first-year modules.
   5.2 to the third year of study if they have passed all the second-year modules.
   5.3 to the fourth year of study if they have passed all the third-year modules.
6 To be admitted to any module in the second or third academic year of study, and progress to the following year of study, students must have passed at least 60% of the modules in the previous year of study.
7 Students must pass at least 3 out of the 6 modules in the first year of study in order to qualify for readmission to the first year of study.
8 A range of assessment strategies and weightings, as laid out in the relevant module's learning guide, explains the continuous assessment criteria specified for promotion to the next year of study.

HS7.2.5 Specific rules and regulations for Medical Imaging and Radiation Sciences students

1 Students must familiarize themselves with the internal rules and regulations of the Department of Medical Imaging and Radiation Sciences. These rules and regulations, as set out in the Departmental policy document, are binding.
2 The programme is not offered as a limited contact or distance learning programme. Students who elect to leave the country will be unable to continue with their studies.
3 All students are required to complete a minimum number of clinical hours / competencies as stipulated by the HPCSA at the time.

HS7.2.6 Curriculum

All modules are Continuous Evaluation modules.

First year		
Module name	**Module code**	**Prerequisite code**
Year Modules		See admission requirements
Anatomy and Physiology 1	ANP01Y1	
Applied Physics	APP01Y1	
Imaging Technology 1	IMT02Y1	
Professional Practice	PRP01Y1	
Pathology	PTY01Y1	
Ultrasound Clinical Practice 1	UCP01Y1	
Ultrasound Practice 1	USP01Y1	
Second year		
Module name	**Module code**	**Prerequisite code**
Year modules		

Anatomy and Physiology 2	ANP01Y2	ANP01Y1 PTY01Y1
Professional Practice and Research Principles	PRR01Y2	PRP01Y1 USP01Y1 UCP01Y1
Ultrasound Clinical Practice 2	UCP01Y2	USP01Y1 UCP01Y1 PRP01Y1
Ultrasound Physics Instrumentation	UPI01Y2	IMT02Y1 APP01Y1
Ultrasound Practice 2	USP01Y2	USP01Y1 UCP01Y1 PRP01Y1
Third year		
Module name	**Module code**	**Prerequisite code**
Year Modules		
Applied Psychology	APY01Y3	PRR01Y2
Management Principles and Practice	MPP01Y3	
Research Methods	REM01Y3	PRR01Y2
Specialized Ultrasound	SUS01Y3	USP01Y2 UPI01Y2
Ultrasound Clinical Practice 3	UCP01Y3	USP01Y2 UCP01Y2 PRR01Y2
Ultrasound Practice 3	USP01Y3	USP01Y2 UCP01Y2 PRR01Y2
Fourth Year		
Module name	**Module code**	**Prerequisite code**
Year Modules		
Radiographic Department Management Strategies	RGM01Y4	MPP01Y3
Research Project 4	RPR01Y4	REM01Y3

Specialized Ultrasound	SUS01Y4	USP01Y3 UCP01Y3 SUS01Y3
Ultrasound Clinical Practice 4	UCP01Y4	USP01Y3 UCP01Y3
Ultrasound Practice 4	USP01Y4	USP01Y3 UCP01Y3
Choose one of the following elective modules		
Education in Health	EIH01Y4	USP01Y3 UCP01Y3 SUS01Y3
OR		
Imaging Informatics	IMT01Y4	USP01Y3 UCP01Y3 SUS01Y3

HS7.3 BACHELOR OF NUCLEAR MEDICINE TECHNOLOGY (B9M02Q)

Duration of programme
Full-time: Minimum 4 years and Maximum 6 years
NQF Level 8, 480 Credits
Work integrated learning (WIL) is incorporated into the employment contract with the respective clinical training centre.

HS7.3.1 Purpose

The purpose of the qualification is to develop a competent professional nuclear medicine technologist who has thorough grounding in the knowledge and skills required for Nuclear Medicine Technology and who has gained experience in the application of such knowledge and skills in accredited workplaces.

Successful completion of this qualification will entitle the student to register with the Health Professions Council of South Africa (HPCSA) as a Nuclear Medicine Technologist.

HS7.3.2 Outcomes

After completion of the programme, the student will be able to:

1. Apply principles of human rights, ethics and relevant medical law to ensure the well-being of the patient.
2. Perform a range of conventional and specialized nuclear medicine imaging procedures in order to facilitate diagnosis and treatment of the patient.
3. Operate and ensure quality functioning of all nuclear medicine instrumentation to provide the best diagnostic capability of the instruments.
4. Function in a type 'B' radiopharmacy laboratory to safely dispense radiopharmaceuticals for nuclear medicine imaging procedures.
5. Perform a range of in-vitro and in-vivo non-imaging nuclear medicine procedures in a type 'C' radiopharmacy laboratory.
6. Assure quality of all aspects of a nuclear medicine investigation and the service provided.
7. Plan, develop and apply total quality management appropriate to the nuclear medicine context.
8. Demonstrate research skills and foster a research climate in nuclear medicine.

9. Apply the principles, specific knowledge, skills and values related to the chosen elective subject.

HS7.3.3 Rules of access and admission requirements

A Senior Certificate or an equivalent qualification at an equivalent standard as determined by a Faculty Status Committee, with the following Subjects:

- Mathematics with a Higher Grade D or Standard Grade C symbol.
- Physical Science with a Higher Grade D or Standard Grade C symbol.
- Biology with a Higher Grade C or Standard Grade B symbol or,
- Physiology with a Higher Grade C or Standard Grade B symbol.

A National Senior Certificate - APS Score with minimum requirements as shown below:
(Exclude Life Orientation when calculating APS)

Minimum APS	**Language of teaching and Learning (English)**	**Mathematics**	**Mathematical Literacy**	**Physical Sciences**	**Life Sciences**
30	**5**	**4**	**Not accepted**	**4**	**5**

Selection criteria

Selection will be based on:

- Academic merits.
- Clinical placement in a Health Professional Council of South Africa accredited clinical training site.

HS7.3.4 Pass requirements

1. Students retain credits for all modules passed except where requirement 2 applies;
2. If a student fails any module in any level of study, he/she forfeits the credits for the Nuclear Medicine Clinical Practice Module for that level of study but retain credits for all other modules passed.
3. Students may enrol for a module in the following year of study provided that they have passed the prerequisite module/s.
4. Students may not register for module combinations that lead to timetable clashes. The Department will make the final decision as to the modules for which the student may register.
5. Students are promoted:
   5.1 to the second year of study if they have passed all the first-year modules.
   5.2 to the third year of study if they have passed all the second-year modules.
   5.3 to the fourth year of study if they have passed all the third-year modules.
6 To be admitted to any module in the second or third academic year of study, and progress to the following year of study, students must have passed at least 60% of the modules in the previous year of study.
7 Students must pass at least 3 out of the 6 modules in the first year of study in order to qualify for readmission to the first year of study.
8 A range of assessment strategies and weightings, as laid out in the relevant module's learning guide, explains the continuous assessment criteria specified for promotion to the next year of study.

HS7.3.5 Specific rules and regulations for Medical Imaging and Radiation Sciences students

1. Students must familiarize themselves with the internal rules and regulations of the Department of Medical Imaging and Radiation Sciences. These rules and regulations, as set out in the Departmental policy document, are binding.
2. The programme is not offered as a limited contact or distance learning programme. Students who elect to leave the country will be unable to continue with their studies.
3. All students are required to complete a minimum number of clinical hours / competencies as stipulated by the HPCSA at the time.

HS7.3.6 Curriculum

All modules are Continuous Evaluation modules.

First year		
Module name	**Module code**	**Prerequisite code**
Year Modules		See admission requirements
Anatomy and Physiology 1	ANP01Y1	
Applied Physics	APP01Y1	
Nuclear Medicine Clinical Practice 1	NCP01Y1	
Nuclear Medicine Practice 1	NMP01Y1	
Professional Practice	PRP01Y1	
Pathology	PTY01Y1	
Radiopharmacy 1	RPY01Y1	
Second year		
Module name	**Module code**	**Prerequisite code**
Year modules		
Anatomy and Physiology 2	ANP01Y2	ANP01Y1 PTY01Y1
Nuclear Medicine Clinical Practice 2	NCP01Y2	NMP01Y1 NCP01Y1 RPY01Y1
Nuclear Medicine Instrumentation	NMI01Y2	NMP01Y1 NCP01Y1 RPY01Y1
Nuclear Medicine Practice 2	NMP01Y2	NMP01Y1 NCP01Y1 RPY01Y1
Professional Practice and Research Principles	PRR01Y2	PRP01Y1

Radiopharmacy 2	RPY01Y2	RPY01Y1
Third year		
Module name	**Module code**	**Prerequisite code**
Year Modules		
Management Principles and Practice	MPP01Y3	
Nuclear Medicine Clinical Practice 3	NCP01Y3	NMP01Y2 NCP01Y2 RPY01Y2
Nuclear Medicine Practice 3	NMP01Y3	NMP01Y2 NCP01Y2 RPY01Y2
Research Methods	REM01Y3	PRR01Y2
Radiopharmacy 3	RPY01Y3	RPY01Y2 NMI01Y2
Therapeutics	THR01Y3	RPY01Y2 NMI01Y2
Fourth Year		
Module name	**Module code**	**Prerequisite code**
Year Modules		
Nuclear Medicine Clinical Practice 4	NCP01Y4	NMP01Y3 NCP01Y3 RPY01Y3
Nuclear Medicine Practice 4	NMP01Y4	NMP01Y3 NCP01Y3 RPY01Y3
Radiographic Department Management Strategies	RGM01Y4	MPP01Y3
Research Project 4	RPR01Y4	REM01Y3
Radiopharmacy 4	RPY01Y4	RPY01Y3
Choose one of the following modules		
Education in Health	EIH01Y4	NMP01Y3 NCP01Y3
OR		
Imaging Informatics	IMT01Y4	NMP01Y3 NCP01Y3

HS7.4 BACHELOR OF RADIATION THERAPY (B9M04Q)

Duration of programme
Full-time: Minimum 4 years and Maximum 6 years
NQF Level 8, 480 Credits
Work integrated learning (WIL) is incorporated into the employment contract with the respective clinical training centre.

HS7.4.1 Purpose

The purpose of the qualification is to develop a professional radiation therapist who is competent in the knowledge and skills required for Radiation Therapy and has gained experience in applying such knowledge and skills in accredited workplaces.

Successful completion of this qualification will entitle the student to register with the Health Professions Council of South Africa (HPCSA) as a Radiation Therapist.

HS7.4.2 Outcomes

After completion of the programme, the student will be able to:

1. Apply the principles of human rights, ethics and relevant medical law which ensure the well-being of the patient.
2. Demonstrate a critical understanding and application of quality assurance and radiation protection in a Radiation Therapy division.
3. Apply scientific knowledge and technical skills to perform radiation oncology laboratory techniques and procedures.
4. Perform radiotherapy procedures competently to ensure optimal radiation localization and immobilization for radiation treatment.
5. Perform radiotherapy procedures competently to ensure optimal treatment planning.
6. Apply scientific knowledge and professional skills to perform therapeutic procedures for accurate delivery of the radiation treatment prescribed.
7. Plan, develop and apply total quality management appropriate to the radiation therapy context.
8. Demonstrate research skills and foster a research climate in radiation therapy.
9. Apply the principles, specific knowledge, skills and values related to the chosen elective subject.

HS7.4.3 Rules of access and admission requirements

A Senior Certificate or an equivalent qualification at an equivalent standard as determined by a Faculty Status Committee, with the following Subjects:

- Mathematics with a Higher Grade D or Standard Grade C symbol.
- Physical Science with a Higher Grade D or Standard Grade C symbol.
- Biology with a Higher Grade C or Standard Grade B symbol or,
- Physiology with a Higher Grade C or Standard Grade B symbol.

A National Senior Certificate - APS Score with minimum requirements as shown below:
(Exclude Life Orientation when calculating APS)

Minimum APS	**Language of teaching and Learning (English)**	**Mathematics**	**Mathematical Literacy**	**Physical Sciences**	**Life Sciences**
30	**5**	**4**	**Not accepted**	**4**	**5**

Selection criteria

Selection will be based on:

- Academic merits.
- Clinical placement in a Health Professional Council of South Africa accredited clinical training site.

HS7.4.4 Pass requirements

1. Students retain credits for all modules passed except where requirement 2 applies;
2. If a student fails any module in any level of study, he/she forfeits the credits for the Radiation Therapy Clinical Practice Module for that level of study but retain credits for all other modules passed.
3. Students may enrol for a module in the following year of study provided that they have passed the prerequisite module/s.
4. Students may not register for module combinations that lead to timetable clashes. The Department will make the final decision as to the modules for which the student may register.
5. Students are promoted:
   5.1 to the second year of study if they have passed all the first-year modules.
   5.2 to the third year of study if they have passed all the second-year modules.
   5.3 to the fourth year of study if they have passed all the third-year modules.
6 To be admitted to any module in the second or third academic year of study, and progress to the following year of study, students must have passed at least 60% of the modules in the previous year of study.
7 Students must pass at least 3 out of the 6 modules in the first year of study in order to qualify for readmission to the first year of study.
8 A range of assessment strategies and weightings, as laid out in the relevant module's learning guide, explains the continuous assessment criteria specified for promotion to the next year of study.

HS7.4.5 Specific rules and regulations for Medical Imaging and Radiation Sciences students

1. Students must familiarize themselves with the internal rules and regulations of the Department of Medical Imaging and Radiation Sciences. These rules and regulations, as set out in the Departmental policy document, are binding.
2. The programme is not offered as a limited contact or distance learning programme. Students who elect to leave the country will be unable to continue with their studies.
3. All students are required to complete a minimum number of clinical hours / competencies as stipulated by the HPCSA at the time.

HS7.4.6 Curriculum

All modules are Continuous Evaluation modules.

First year		
Module name	**Module code**	**Prerequisite code**
Year Modules		See admission requirements
Anatomy and Physiology 1	ANP01Y1	
Applied Physics	APP01Y1	
Professional Practice	PRP01Y1	

Pathology	PTY01Y1	
Radiation Therapy Clinical 1	RTC01Y1	
Radiation Therapy Practice 1	RTP01Y1	
Treatment Planning & Dosimetry 1	TPD01Y1	
Second year		
Module name	**Module code**	**Prerequisite code**
Year modules		
Anatomy and Physiology 2	ANP01Y2	ANP01Y1 PTY01Y1
Professional Practice and Research Principles	PRR01Y2	PRP01Y1
Radiation Therapy Clinical 2	RTC01Y2	RTP01Y1 RTC01Y1
Radiation Therapy Practice 2	RTP01Y2	RTP01Y1 RTC01Y1
Treatment Planning & Dosimetry 2	TPD01Y2	TPD01Y1
Third year		
Module name	**Module code**	**Prerequisite code**
Year Modules		
Applied Psychology	APY01Y3	PRR01Y2
Management Principles and Practice	MPP01Y3	
Research Methods	REM01Y3	PRR01Y2
Radiation Therapy Clinical 3	RTC01Y3	RTP01Y2 RTC01Y2
Radiation Therapy Practice 3	RTP01Y3	RTP01Y2 RTC01Y2
Treatment Planning & Dosimetry 4	TPD01Y3	TPD01Y2
Fourth Year		
Module name	**Module code**	**Prerequisite code**

Year Modules		
Radiographic Department Management Strategies	RGM01Y4	MPP01Y3
Research Project 4	RPR01Y4	REM01Y3
Radiation Therapy Clinical 4	RTC01Y4	RTP01Y3 RTC01Y3
Radiation Therapy Practice 4	RTP01Y4	RTP01Y3 RTC01Y3
Treatment Planning & Dosimetry 4	TPD01Y4	TPD01Y3
Choose one of the following elective modules		
Education in Health	EIH01Y4	RTP01Y3 RTC01Y3
OR		
Imaging Informatics	IMT01Y4	RTP01Y3 RTC01Y3

HS7.5 MASTER OF MEDICAL IMAGING AND RADIATION SCIENCES (M9MI1Q)

Duration of programme
Full-time: Minimum 1 year and Maximum 2 years
Part-time: Minimum 1 year and Maximum 3 years
NQF level 9
Research thesis 100%

HS7.5.1 Purpose

The purpose of the Master of Medical Imaging and Radiation Sciences is to enable successful learners to make a contribution to a chosen field of radiography through independent research, using advanced problem-solving skills and critical, reflective thinking. The learner will report the findings in a manner that meets the accepted criteria and ethical principles of the profession. The research problem, its justification, process and outcome will be reported in a dissertation that complies with the generally accepted norms for research at a Master's level. In this way, the learner will make a contribution to the existing body of knowledge for radiography ranging from fundamental concepts to advanced theoretical or applied knowledge that will develop and advance the radiography profession.

HS7.5.2 Outcomes

The student will be able to:

1. Identify, formulate, prepare and solve research problems.
2. Execute the research project at the appropriate level.
3. Collect, organize, check, evaluate and write a proper literature review organizing the appropriate information in an understandable and logic manner.
4. Acquire learning abilities in the research context including the assessment of scientific literature, execution of research methodologies including the gathering of data and evaluating the information obtained.
5. Report research findings at the appropriate level.

6. Make conclusions, suggestions and recommendations based on the data collected that are reasonable and justifiable.

HS7.5.3 Rules of access and admission requirements

The minimum requirement is a Radiography related qualification at NQF level 8 or equivalent. Applications from person with an equivalent qualification will be considered by a constituted status committee in line with the University's and faculty's regulations.

Selection criteria

The selection of Master's students will be done in accordance with rules and regulations of the Higher Degrees Committee of the University of Johannesburg as stipulated for postgraduate programmes.

Selection includes an approval of the student's research concept by the Department Research Committee which will grant the student permission to register and then develop a research proposal.

HS7.5.4 Pass requirements

Refer to the Academic Regulations of the University of Johannesburg.

HS7.5.5 Curriculum

A research project and a thesis:

Module name	Module code
Semester one	
Research Project and Dissertation: Health Sciences (Medical Imaging and Radiation)	DMI9XA1
Semester two	
Research Project and Dissertation: Health Sciences (Medical Imaging and Radiation)	DMI9XB1

HS7.6 DOCTOR OF PHILOSOPHY IN HEALTH SCIENCES: MEDICAL IMAGING AND RADIATION SCIENCES (P9HS8Q)

Duration of programme
Full-time: Minimum 2 years and Maximum 4 years
Part-time: Minimum 2 years and Maximum 5 years
NQF level 10, 360 Credits
Research thesis 100%

HS7.6.1 Purpose

The purpose of the PhD (Health Sciences) is to promote the career advancement of students in the area of Health Sciences by enabling students to conduct independent, novel research within a specific discipline or in a multidisciplinary manner in Health Sciences that will contribute to the knowledge and practice in the area of Health Sciences.

The defining characteristic of this programme is that the candidate is required to demonstrate high level research capability and to make a significant and original academic contribution at the frontiers of health science. The research output must be of a quality to satisfy peer review and merit publication. It is intended that the student will undertake original research.

The student who successfully completes this qualification will be able to apply higher level

problem solving skills and critical, reflective thinking at the most advanced academic levels in the Medical Imaging and Radiation Sciences (MIRS) domain.

HS7.6.2 Outcomes

1. Demonstrate a systematic understanding of the domain of MIRS and a mastery of the skills and methods of research associated with the domain of MIRS.
2. Conceive, design, implement and disseminate a substantial process of research with scholarly integrity.
3. Make a contribution through original research that extends the frontier of knowledge by developing a substantial body of work in an area of MIRS, some of which merits national or international refereed publication.

HS7.6.3 Rules of access and admission requirements

The minimum admission requirement is a master's degree in MIRS or Radiography qualification or equivalent. Selection is based on approval by the Faculty's Higher Degrees Committee.

Selection criteria

Applications from persons with an equivalent qualification will be considered by a constituted status committee in line with the University's and Faculty's regulations.

Selection includes an approval of the student's research concept by the Department Research Committee which will grant the student permission to register and then develop a research proposal.

The selection and allocation of post-graduate students depends on the availability of supervisors.

HS7.6.4 Pass requirements

Refer to the Academic Regulations of the University of Johannesburg.

Certification of compliance with the requirements of the qualification is in accordance with the Certification Policy of the University, with due regard to the responsibility of the students, supervisors, relevant faculty administration officer, the Executive Dean of the faculty and the Registrar.

HS7.6.5 Curriculum

A research thesis. The research component is 100%.

Module name	**Module code**
Semester one	
Research Project and Thesis: Health Sciences (Medical Imaging and Radiation Sciences)	RMI10X1
Semester two	
Research Project and Thesis: Health Sciences (Medical Imaging and Radiation Sciences)	RMI10X2

HS8.0 DEPARTMENT OF NURSING

HS8.1 BACHELOR OF NURSING (B9N02Q)

Duration of programme
Full-time: Minimum 4 years and Maximum 6 years
NQF Level 8, 480 Credits

HS8.1.1 Purpose

The purpose of the Bachelor of Nursing is to produce professional graduates competent in the knowledge and skills required for managing and providing an integrated, holistic, scientifically based nursing and midwifery health care service to society. The aim is to develop reflective, caring practitioners capable of integrating principles, theory, proven techniques and relevant clinical skills in the delivery of a service, focusing on the promotion of health, prevention, diagnosis, treatment and rehabilitation of nursing and midwifery related problems. On completion of this programme, graduates will be able to register with SANC as a professional nurse and midwife, entitling them to practice independently and within a multidisciplinary team in the private or public health sector or in the education or research sector.

HS8.1.2 Outcome

1. Apply and execute the scientific principles of comprehensive nursing and midwifery care as a professional nurse and midwife.
2. Apply and justify the principle of research and science-based problem-solving.

HS8.1.3 Rules of access and admission requirements

At entrance level, the prospective student should hold a Further Education Certificate (level 4), with full exemption.
Owing to the limited number of clinical learning facilities, the following two additional selection criteria shall also apply:

A National Senior Certificate (NSC) - APS Score with minimum requirements as shown below:

(Exclude Life Orientation when calculating APS)

Minimum APS	**Language of teaching and Learning**	**Mathematics**	**Mathematical Literacy**	**Physical Sciences**	**Life Sciences**
28	**5**	**4**	**Not accepted**	**4**	**4**

Selection criteria for this programme.

Selection will be based on:

- Academic merit; APS score
- A structured personal interview
- English proficiency

HS8.1.4 Pass requirements

1 Students may enrol for a module in the following year, provided that:
  (a) They have passed the prerequisites modules.
  (b) The module selection does not lead to timetable clashes.
2 First year students must pass a minimum of 60% of the first-year modules as well as the prerequisites to proceed to the next level. This includes both the theoretical and clinical modules.
3 100% attendance of all class and clinical practicals is compulsory.
4 Students may not register for the same module for a third time without permission from the Head of Department and Executive Dean.
5 Students have a maximum of six years to complete the qualification.

HS8.1.5 Clinical Practice (Work Integrated Learning in an accredited clinical institution)

1. Students should comply with the clinical/practical formative and summative assessment requirements in order to found competent in clinical skills.
2. Be registered as a Student Nurse with South African Nursing Council (SANC)
3. Students must by the end of each year complete the number of hours as regulated by the SANC for clinical practice which are detailed in the study guides and Bachelor of Nursing policy.

HS8.1.6 Curriculum

First year		
Module name	**Module code**	**Prerequisite code**
Semester one		
Fundamental Nursing Science 1A	FNS01A1	
Anatomy 1A	ANT01A1	
Physiology 1A	PHS01A1	
Psychology 1A	PSY1AA1	
Sociology 1A	SOC1AA1	
Semester two		
Fundamental Nursing Science 1B	FNS01B1	
Pharmacology 1	PHM01B1	
Anatomy 1B	ANT01B1	
Physiology 1B	PHS01B1	
Year modules		
Fundamental Nursing Science Clinical Practice 1C	FNC01Y1	
Second year		

Module name	Module code	Prerequisite code
Semester one		
General Nursing Science 1A	GNS01A2	FNS01B1 PHS01B1 ANT01B1
Mental Health Nursing Science 1	MHS01A2	
Mental Health Nursing Science Clinical Practice 1	MHC01A2	
Psychology 2A: Developmental Psych	PSY2AA2	PSY1AA1
Sociology 2A	SOC2AA2	SOC1AA1
Physiology 2A	PHS01A2	PHS01B1
Semester two		
General Nursing Science 1B	GNS01B2	
Physiology 2B	PHS01B2	PHS01A2
Year modules		
General Nursing Science Clinical Practice 1C	GNC01Y2	FNS01A1 FNC01Y1 FNS01B1 PHS01A1 PHS01B1
Third year		
Module name	**Module code**	**Prerequisite code**
Semester one		
General Nursing Science 2A	GNS01A3	All 1st and 2nd Year Modules.
Midwifery Nursing Science 1A	MNS01A3	
Semester two		
General Nursing Science 2B	GNS01B3	
Midwifery Nursing Science 1B	MNS01B3	
Year modules		
General Nursing Science Clinical Practice 2C	GNC01Y3	

Midwifery Nursing Science Clinical Practice 1C	MNC01Y3	
Research Methodology	RSM01Y3	
Fourth year		
Module name	**Module code**	**Prerequisite code**
Semester one		All 3rd Year Modules.
General Nursing Science 3A	GNS01A4	
Midwifery Nursing Science 2A	MNS01A4	
Semester two		
General Nursing Science 3B	GNS01B4	
Midwifery Nursing Science 2B	MNS01B4	
Year modules		
General Nursing Science Clinical Practice 3C	GNC01Y4	
Midwifery Nursing Science Clinical Practice 2C	MNC01Y4	
Research Project	RSP01Y4	

HS8.2 POSTGRADUATE DIPLOMA IN MIDWIFERY (E9MW1Q)

Duration of programme
Part-Time: 2 years
NQF Level 8, 120 Credits

HS8.2.1 Purpose

The purpose of Postgraduate Diploma in Midwifery is to strengthen and deepen students' knowledge and skills in the field of midwifery, required to undertake advanced reflection and development by means of critical thinking and clinical decision making, practice and research methods. The aim is to empower midwife specialists with key competencies i.e. knowledge, skills, attitudes and values. On completion of this programme, graduates will be able to register with the South African Nursing Council (SANC) midwife specialists, entitling them to work independently within the multidisciplinary team to provide promotive, preventive, curative and rehabilitative services to individuals, families, groups, and communities.

HS8.2.2 Outcome

1. Apply competencies to practice as an independent midwife specialist in midwifery clinical area, public and private sector.
2. Articulate vertically to any relevant degree at NQF level 9, for an example: Master's in midwifery.

HS8.2.3 Rules of access and admission requirements

Students are admitted in accordance with the national prescribed admittance criteria as provided by the Higher Education Qualifications Framework (HEQF), and institutional policies which include the Academic Regulations Policy and the Policy on Admission and Selection of the University of Johannesburg. The latter policy states that academics involved in selection and admission "considers the need to redress past inequalities, aims to provide equity, quality and academic excellence. The UJ Academic Regulations Policy instructs academics to ensure that admission is subject to the student equity profile.

Minimum Admission Requirements

1. A Bachelor's Degree in Nursing (R.174), alternatively.
2. A Bachelor's Degree in Nursing (R.425)
3. A Diploma in Nursing: General Nurse (R.171) with Advanced Diploma in Midwifery (R.1497).
4. Minimum of two (2) years' experiences, inclusive of a year of community service, as a Professional Nurse or General Nurse and Midwife.
5. Proof of registration with the SANC as a Professional Nurse or General Nurse and Midwife.
6. Proof of employment, detailing midwifery experience in years.
7. Approval from your Nursing Service Manager (NSM) to register for the programme and rotate through midwifery/maternity units.
8. The prospective student should remain employed at the institution where the permission has been granted by the NSM for the duration of the programme period.

Programme selection requirements

1. Signed agreement from NSM and/or preceptor to assist with the practical component.
2. Signed NSM agreement to move candidate to a clinical training facility approved and accredited by SANC for University of Johannesburg.
3. Minimum two (2) years midwifery clinical experience.
4. Professional indemnity.
5. Letter of permission from the clinical preceptor pledging the clinical academic support.

HS8.2.4 Curriculum

First year		
Module name	**Module code**	**Prerequisite Code**
Semester one		
Ethical Legal Professional Frameworks	ELP8X01	
Semester two		
Normal and abnormal pregnancy	NAP8X01	
Year Modules		
Clinical Practice in midwifery	CPM8XY1	
Research	REN8XY1	

Second year		
Module name	**Module code**	**Prerequisite code**
Semester one		
Normal and Abnormal Labour	NAL8X02	
Semester Two		
Postnatal Care	PSC8X02	
The Neonate	NEO8X02	
Year modules		
Clinical Practice in Midwifery	CPM8XY2	

HS8.3 POSTGRADUATE DIPLOMA IN CRITICAL CARE NURSING (ADULT)(E9IC1Q)

Duration of programme
Part-Time: 2 years
NQF Level 8, 130 Credits

HS8.3.1 Purpose

The purpose of Postgraduate Diploma in Critical Care Nursing (Adult) is to strengthen and deepen students' knowledge and expertise in adult critical care as a specialty of the nursing profession. It is designed to develop the student's skills based on current thinking, practice, and research methods in the field of adult critical care nursing. The aim is to empower the critical care nursing specialists with key competencies i.e.: knowledge, skills, attitudes, and values. On completion of this programme, graduates will be able to register with the South African Nursing Council (SANC) as critical care nursing specialists, entitling them to work independently within the multidisciplinary team to undertake professional and highly skilled work in adult critical care. This includes prevention of diseases, injuries, complications, screening, appropriate management, and prompt referral of patients with specific and complex health problems in the adult critical care settings.

HS8.3.2 Outcome

1. Apply competencies to practice as an independent specialist in adult critical care setting, public and private sector.
2. Articulate vertically to any relevant degree at NQF level 9, for an example: Master's in Medical and Surgical Nursing Science.

HS8.3.3 Rules of access and admission requirements

Students are admitted in accordance with the national prescribed admittance criteria as provided by the Higher Education Qualifications Framework (HEQF), and institutional policies which include the Academic Regulations Policy and the Policy on Admission and Selection of the University of Johannesburg (UJ). The latter policy states that academics involved in selection and admission "considers the need to redress past inequalities, aims to provide equity, quality and academic excellence..." The UJ Academic Regulations Policy instructs academics to ensure that admission is subject to the student equity profile.

Minimum Admission Requirements

1. A Bachelor's Degree in Nursing (R.174), alternatively

2. A Bachelor's Degree in Nursing (R.425)
3. A Diploma in Nursing: General Nurse (R.171) with Advanced Diploma in Midwifery (R.1497).
4. Minimum of two (2) years' experience, (inclusive of a year of community service) after registration with the South African Nursing Council (SANC) as a Professional Nurse or General Nurse and Midwife.
5. A minimum of two (2) years of post-basic clinical experience in adult critical care.
6. Proof of current registration with the SANC as a Professional Nurse or General Nurse and Midwife.
7. Proof of employment, detailing adult critical care experience in years.
8. Approval from your Nursing Service Manager (NSM) to register for the programme and rotate through adult critical care health settings.
9. The prospective student should remain employed at the institution where the permission has been granted by the NSM for the duration of the programme period.

Programme selection requirements

1. Signed agreement from NSM and/or preceptor to assist with the practical component.

2. Signed NSM agreement to move candidate to a clinical training facility approved and accredited by SANC for University of Johannesburg.

3. Minimum of two (2) years of critical care nursing (adult) experience.

4. Professional indemnity.

5. Letter of permission from the clinical preceptor pledging the clinical academic support.

HS8.3.4 Curriculum

First year		
Module name	**Module code**	**Prerequisite Code**
Semester one		
Ethical Legal Professional Frameworks	ELP8X01	
Semester two		
Pulmonology and Specific Pulmonary Conditions	PSP8X01	
Year modules		
Clinical practice in adult critical care	CPA8XY1	
Research	REN8XY1	
Cardiology and Cardiothoracic surgery	CCS8XY1	
Second year		
Module name	**Module code**	**Prerequisite code**

Semester one		
Nephrology	NEP8X02	
Neurology and Neurosurgery	NNS8X02	
Semester two		
General Surgery, Sepsis and Endocrinology	SSE8X02	
Year modules		
Clinical Practice in Adult Critical Care	CPA8XY2	

HS8.4 POSTGRADUATE DIPLOMA IN NURSING EDUCATION (E9ED1Q)

Duration of programme
Part-Time: 2 years
NQF Level 8, 120 Credits

HS8.4.1 Purpose

The purpose of Postgraduate Diploma in Nursing Education is to strengthen and deepen students' knowledge and skills in the field of nursing education. It is designed to develop student's skills based on current thinking, practice, and research methods in the field of nursing education. The aim is to empower nursing education specialists with high level of theoretical engagement and intellectual independence to acquire the ability to relate knowledge to a range of contexts, to undertake professional and highly skilled teaching ability in nursing education. On completion of this programme, graduates will be able to register with the South African Nursing Council (SANC) as nursing education specialists, entitling them to work independently within the multidisciplinary team.

HS8.4.2 Outcome

1. Apply competencies to practice as an independent nursing education specialist in public and private sector.
2. Articulate vertically to any relevant degree at NQF Level 9, for an example: a master's in nursing education.

HS8.4.3 Rules of access and admission requirements

Students are admitted in accordance with the national prescribed admittance criteria as provided by the Higher Education Qualifications Framework (HEQF), and institutional policies which include the Academic Regulations Policy and the Policy on Admission and Selection of the University of Johannesburg. The latter policy states that academics involved in selection and admission "considers the need to redress past inequalities, aims to provide equity, quality and academic excellence…" The UJ Academic Regulations Policy instructs academics to ensure that admission is subject to the student equity profile.

Minimum Admission Requirements

1. A Bachelor's Degree in Nursing (R.174), alternatively
2. A Bachelor's Degree in Nursing (R.425)
3. A Diploma in Nursing: General Nurse (R.171) with Advanced Diploma in Midwifery (R.1497).
4. A minimum of two (2) years' experience, (inclusive of a year of community service),

after registration by the South African Nursing Council as a Professional Nurse or General Nurse and Midwife.

5. Proof of registration with the SANC as a Professional Nurse or General Nurse and Midwife.
6. Approval from your Nursing Service Manager (NSM) to register for the programme.

HS8.4.4 Curriculum

First year		
Module name	**Module code**	**Prerequisite Code**
Semester one		
Ethical Legal Professional frameworks	ELP8X01	
Didactics	DID8X01	
Semester two		
Curriculum orientation and design	COG8X01	
Year modules		
Research	REN8XY1	
Second year		
Module name	**Module code**	**Prerequisite code**
Semester one		
Teaching and learning strategies and media	TLS8X02	
Assessment and evaluation of learning	AEL8X02	
Semester two		
Contemporary dynamics in Nursing Education	CDN8X02	
Year modules		
Practice in Nursing Education	PNE8XY2	

HS8.5 MASTER OF NURSING SCIENCE IN COMMUNITY HEALTH NURSING SCIENCE (M9N02Q)

Duration of programme
Full-time: Minimum 1 year and Maximum 2 years
Part-time: Minimum 1 year and Maximum 3 years
NQF Level 9, 180 Credits (HEQF aligned)
Research dissertation 100%

HS8.5.1 Purpose

The primary purpose of this qualification is to develop the intellectual and practical competencies of the qualifying student and to facilitate her/his professional values to promote the health of the individual, family, group and community as a specialist, leader and consultant in and as a member of the nursing/midwifery/health team through her/his research, professional and clinical abilities. This qualification serves as a basis for advanced learning.

HS8.5.2 Outcome

Practice as an advanced clinical nurse specialist, leader, consultant and researcher.

HS8.5.3 Rules of access and admission requirements

At entrance level, the prospective student should have a Bachelor's degree with a minimum of 480 approved credits at NQF level 8 or a post graduate diploma at NQF level 8.

Additional selection criteria

1. A minimum of 65% in the core modules in the undergraduate qualification in which the student intends to obtain the master's degree.
2. Proof of registration as a general and community health nurse with the SANC.
3. A candidate must be appointed in an approved full-time or part-time post as a nursing practitioner for the duration of the programme if necessitated by the research topic.

Specific selection criterion

Registration at SANC as a community nurse.

HS8.5.4 Pass requirements

The general regulations for master's degrees are applicable to this qualification.

HS8.5.5 Curriculum

A dissertation on an approved topic

Module name	**Module code**
Semester one	
Dissertation: Community Health Semester 1	NCH9X01
Semester two	
Dissertation: Community Health Semester 2	NCH9X02

HS8.6 MASTER OF NURSING SCIENCE IN COMMUNITY HEALTH NURSING SCIENCE: OCCUPATIONAL HEALTH NURSING SCIENCE (M9N04Q)

Duration of programme
Full-time: Minimum 1 year and Maximum 2 years
Part-time: Minimum 1 year and Maximum 3 years
NQF Level 9, 180 Credits (HEQF aligned)
Research dissertation 100%

HS8.6.1 Purpose

The primary purpose of this qualification is to develop the intellectual and practical competencies of the qualifying student and to facilitate her/his professional values to promote the health of the individual, family, group and community as a specialist, leader and consultant in and as a member of the nursing/midwifery/health team through her/his research, professional and clinical abilities. This qualification serves as a basis for advanced learning.

HS8.6.2 Outcome

Practice as an advanced clinical nurse specialist, leader, consultant and researcher.

HS8.6.3 Rules of access and admission requirements

At entrance level, the prospective student should have a Bachelor's degree with a minimum of 480 approved credits at level 8 or a post graduate diploma at NQF level 8.

Additional selection criteria

1. A minimum 65% in the core modules in the undergraduate qualification in which the student intends to obtain the master's degree.
2. Proof of registration as a general and occupational health nurse with the SANC.
3. A candidate must be appointed in an approved full-time or part-time post as a nursing practitioner for the duration of the programme if necessitated by the research topic.

Specific selection criterion

Registration as SANC as an occupational health nurse.

HS8.6.4 Pass requirements

The general regulations for master's degrees are applicable to this qualification.

HS8.6.5 Curriculum

A dissertation on an approved topic

Module name	**Module code**
Semester one	
Dissertation: Occupational Health Nursing Science Semester 1	NOH9X01
Semester two	
Dissertation: Occupational Health Nursing Science Semester 2	NOH9X02

HS8.7 MASTER OF NURSING SCIENCE IN COMMUNITY HEALTH NURSING SCIENCE: PRIMARY HEALTH CARE (M9N06Q)

Duration of programme
Full-time: Minimum 1 year and maximum 2 years
Part-time: Minimum 1 year and maximum 3 years
NQF Level 9, 180 Credits (HEQF aligned)
Research dissertation 100%

HS8.7.1 Purpose

The primary purpose of this qualification is to develop the intellectual and practical competencies of the qualifying student and to facilitate her/his professional values to promote the health of the individual, family, group and community as a specialist, leader and consultant in and as a member of the nursing/midwifery/health team through her/his research, professional and clinical abilities. This qualification serves as a basis for advanced learning.

HS8.7.2 Outcome

Practice as an advanced clinical nurse specialist, leader, consultant and researcher.

HS8.7.3 Rules of access and admission requirements

At entrance level, the prospective student should have a Bachelor's degree with a minimum of 480 approved credits at level 8 or a post graduate diploma at NQF level 8.

Additional Selection criteria

1. A minimum 65% in the core modules in the undergraduate qualification in which the student intends to obtain the master's degree.
2. Proof of registration at the SANC as a General and primary health care nurse.
3. A candidate must be appointed in an approved full-time or part-time post as a nursing practitioner for the duration of the programme if necessitated by the research topic.

Specific selection criteria

Registration at SANC as a community health nurse and primary health care nurse.

HS8.7.4 Pass requirements

The general regulations for master's degrees are applicable to this qualification.

HS8.7.5 Curriculum

A dissertation on an approved topic

Module name	**Module code**
Semester one	
Dissertation: Primary Health Care Semester 1	NPH9X01
Semester two	
Dissertation: Primary Health Care Semester 2	NPH9X02

HS8.8 MASTER OF NURSING SCIENCE IN MEDICAL AND SURGICAL NURSING: CRITICAL CARE (GENERAL) (M9N08Q)

Duration of programme
Full-time: Minimum 1 year and Maximum 2 years
Part-time: Minimum 1 year and Maximum 3 years
NQF Level 9, 180 Credits (HEQF aligned)
Research dissertation 100%

HS8.8.1 Purpose

The primary purpose of this qualification is to develop the intellectual and practical competencies of the qualifying student and to facilitate her/his professional values to promote the health of the individual, family, group and community as a specialist, leader and consultant in and as a member of the nursing/midwifery/health team through her/his research, professional and clinical abilities. This qualification serves as a basis for advanced learning.

HS8.8.2 Outcome

Practice as an advanced clinical nurse specialist, leader, consultant and researcher

HS8.8.3 Rules of access and admission requirements

At entrance level, the prospective student should have a Bachelor's degree with a minimum of 480 approved credits at level 8 or a post graduate diploma at NQF level 8.

Additional selection criteria

1. A minimum of 65% in the core modules in the undergraduate qualification in which the student intends to obtain the master's degree.
2. Proof of registration as a general and critical care nurse with the SANC.
3. A candidate must be appointed in an approved full-time or part-time post as a nursing practitioner for the duration of the programme if necessitated by the research topic.

HS8.8.4 Pass requirements

The general regulations for master's degrees are applicable to this qualification.

HS8.8.5 Curriculum

A dissertation on an approved topic

Module name	**Module code**
Semester one	
Dissertation: Critical Care Semester 1	NMD9X01
Semester two	
Dissertation: Critical Care Semester 2	NMD9X02

HS8.9 MASTER OF NURSING SCIENCE IN MIDWIFERY AND NEONATAL NURSING SCIENCE (M9N11Q)

Duration of programme
Full-time: Minimum 1 year and Maximum 2 years
Part-time: Minimum 1 year and Maximum 3 years
NQF Level 9, 180 Credits (HEQF aligned)
Research dissertation 100%

HS8.9.1 Purpose

The primary purpose of this qualification is to develop the intellectual and practical competencies of the qualifying student and to facilitate her/his professional values to promote the health of the individual, family, group and community as a specialist, leader and consultant in and as a member of the nursing/midwifery/health team through her/his research, professional and clinical abilities. This qualification serves as a basis for advanced learning.

HS8.9.2 Outcome

Practice as an advanced clinical nurse specialist, leader, consultant and researcher.

HS8.9.3 Rules of access and admission requirements

At entrance level, the prospective student should have a Bachelor's degree with a minimum of 480 approved credits at level 8 or a post graduate diploma at NQF level 8.

Additional selection criteria

1. A minimum of 65% in the core modules in the undergraduate qualification in which the student intends to obtain the master's degree.
2. Proof of registration as a general nurse and midwife with the SANC.
3. A candidate must be appointed in an approved full-time or part-time post as a nursing practitioner for the duration of the programme if necessitated by the research topic.

HS8.9.4 Pass requirements

The general regulations for master's degrees are applicable to this qualification.

HS8.9.5 Curriculum

A dissertation on an approved topic

Module name	**Module code**
Semester one	
Dissertation: Midwifery and Neonatal Semester 1	NMM9X01
Semester two	
Dissertation: Midwifery and Neonatal Semester 2	NMM9X02

HS8.10 MASTER OF NURSING SCIENCE IN PROFESSIONAL NURSING SCIENCE: ETHOS AND PROFESSIONAL PRACTICE (M9N14Q)

Duration of programme
Full-time: Minimum 1 year and Maximum 2 years
Part-time: Minimum 1 year and Maximum 3 years
NQF Level 9, 180 Credits (HEQF aligned)
Research dissertation 100%

HS8.10.1 Purpose

The primary purpose of this qualification is to develop the intellectual and practical competencies of the qualifying student and to facilitate her/his professional values to promote the health of the individual, family, group and community as a specialist, leader and consultant in and as a member of the nursing/midwifery/health team through her/his research, professional and clinical abilities. This qualification serves as a basis for advanced learning.

HS8.10.2 Outcome

Practice as an advanced clinical nurse specialist, leader, consultant and researcher.

HS8.10.3 Rules of access and admission requirements

At entrance level, the prospective student should have a Bachelor's degree with a minimum of 480 approved credits at level 8 or a post graduate diploma at NQF level 8.

Additional selection criteria

1. A minimum of 65% in the core modules in the undergraduate qualification in which the student intends to obtain the master's degree.
2. Proof of registration as a general nurse with the SABC.
3. A candidate must be appointed in an approved full-time or part-time post as a nursing practitioner for the duration of the programme if necessitated by the research topic.

HS8.10.4 Pass requirements

The general regulations for master's degrees are applicable to this qualification.

HS8.10.5 Curriculum

A dissertation on an approved topic

Module name	**Module code**
Semester one	
Dissertation: Ethos and Professional Practice Semester 1	NEP9X01
Semester two	
Dissertation: Ethos and Professional Practice Semester 2	NEP9X02

HS8.11 MASTER OF NURSING SCIENCE IN PROFESSIONAL NURSING SCIENCE: NURSING EDUCATION (M9N16Q)

Duration of programme
Full-time: Minimum 1 year and Maximum 2 years
Part-time: Minimum 1 year and Maximum 3 years
NQF Level 9, 180 Credits (HEQF aligned)
Research dissertation 100%

HS8.11.1 Purpose

The primary purpose of this qualification is to develop the intellectual and practical competencies of the qualifying student and to facilitate her/his professional values to promote the health of the individual, family, group and community as a specialist, leader and consultant in and as a member of the nursing/midwifery/health team through her/his research, professional and clinical abilities. This qualification serves as a basis for advanced learning.

HS8.11.2 Outcome

Practice as an advanced clinical nurse specialist, leader, consultant and researcher.

HS8.11.3 Rules of access and admission requirements

At entrance level, the prospective student should have a Bachelor's degree with a minimum of 480 approved credits at level 8 or a post graduate diploma at NQF level 8.

Additional selection criteria

1. A minimum of 65% in the core modules in the undergraduate qualification in which the student intends to obtain the master's degree. Passed nursing education at level 3 (NQF 8).
2. Proof of registration as a general nurse and nurse educator with the SANC.
3. A candidate must be appointed in an approved full-time or part-time post as a nursing practitioner for the duration of the programme if necessitated by the research topic.

HS8.11.4 Pass requirements

The general regulations for master's degrees are applicable to this qualification.

HS8.11.5 Curriculum

A dissertation on an approved topic*

Module name	**Module code**
Semester one	
Dissertation: Nursing Education Semester 1	NED9X01
Semester two	
Dissertation: Nursing Education Semester 2	NED9X02

HS8.12 MASTER OF NURSING SCIENCE IN PROFESSIONAL NURSING SCIENCE: NURSING MANAGEMENT (M9N15Q)

Duration of programme
Full-time: Minimum 1 year and Maximum 2 years
Part-time: Minimum 1 year and Maximum 3 years
NQF Level 9, 180 Credits (HEQF aligned)
Research dissertation 100%

HS8.12.1 Purpose

The primary purpose of this qualification is to develop the intellectual and practical competencies of the qualifying student and to facilitate her/his professional values to promote the health of the individual, family, group and community as a specialist, leader and consultant in and as a member of the nursing/midwifery/health team through her/his research, professional and clinical abilities. This qualification serves as a basis for advanced learning.

HS8.12.2 Outcome

Practice as an advanced clinical nurse specialist, leader, consultant and researcher.

HS8.12.3 Rules of access and admission requirements

At entrance level, the prospective student should have a Bachelor's degree with a minimum of 480 approved credits at level 8 or a post graduate diploma at NQF level 8.

Additional selection criteria

1. A minimum of 65% in the core modules in the undergraduate qualification in which the student intends to obtain the master's degree. Passed nursing management at a level 3 (NQF 8).
2. Proof of registration as a general nurse and nurse manager with the SANC.
3. A candidate must be appointed in an approved full-time or part-time post as a nursing practitioner for the duration of the programme if necessitated by the research topic.

HS8.12.4 Pass requirements

The general regulations for master's degrees are applicable to this qualification.

HS8.12.5 Curriculum

A dissertation on an approved topic

Module name	**Module code**
Semester one	
Dissertation: Professional Nursing Management Semester 1	NSM9X01
Semester two	
Dissertation: Professional Nursing Management Semester 2	NSM9X02

HS8.13 MASTER OF NURSING SCIENCE IN PSYCHIATRIC MENTAL HEALTH NURSING (M9N18Q)

Duration of programme
Full-time: Minimum 1 year and Maximum 2 years
Part-time: Minimum 1 year and Maximum 3 years
NQF Level 9, 180 Credits (HEQF aligned)
Research dissertation 100%

HS8.13.1 Purpose

The primary purpose of this qualification is to develop the intellectual and practical competencies of the qualifying student and to facilitate her/his professional values to promote the health of the individual, family, group and community as a specialist, leader and consultant in and as a member of the nursing/psychiatric/health team through her/his research, professional and clinical abilities. This qualification serves as a basis for advanced learning.

HS8.13.2 Outcome

Practice as an advanced clinical nurse specialist, leader, consultant and researcher.

HS8.13.3 Rules of access and admission requirements

At entrance level, the prospective student should have a Bachelor's degree with a minimum of 480 approved credits at level 8 or a post graduate diploma at NQF level 8.

Additional selection criteria

1. A minimum of 65% in the core modules in the undergraduate qualification in which the student intends to obtain the master's degree.
2. Proof of registration as a general nurse and post-basic psychiatric nurse with the SANC.
3. A candidate must be appointed in an approved full-time or part-time post as a nursing practitioner for the duration of the programme if necessitated by the research topic.

HS8.13.4 Pass requirements

The general regulations for master's degrees are applicable to this qualification.

HS8.13.5 Curriculum

A dissertation on an approved topic

Module name	**Module code**
Semester one	
Dissertation: Psychiatric Nursing Science: Semester 1	NPD9X01
Semester two	
Dissertation: Psychiatric Nursing Science: Semester 2	NPD9X02

HS8.14 DOCTOR OF NURSING SCIENCE

Duration of programme
Full-time: Minimum 2 years and Maximum 4 years
Part-time: Minimum 2 years and Maximum 5 years
NQF Level 10, 360 Credits
Research thesis 100%

With specialisation choices in the following:

1. **Community Nursing Science (P9N01Q)**
2. **Medical and Surgical Nursing Science: Critical Care Nursing (General) P9N06Q)**
3. **Maternal and Child Nursing Science: Advanced Midwifery and Neonatal Nursing Science (P9N05Q)**
4. **Professional Nursing Science: Nursing Education (P9N14Q)**
5. **Psychiatric Mental Health Nursing Science (P9N02Q)**
6. **Professional Nursing Science (P9N03Q)**
7. **Community Health Nursing Science: Primary Health Care (P9N08Q)**
8. **Community Health Nursing Science: Occupational Health Nursing Science (P9N09Q)**

HS8.14.1 Purpose

The primary purpose of this qualification is to provide the qualifying student with advanced critical, analytical, problem-solving and reflective competencies as a nursing specialist to act as a leader and consultant in health services and to make an original contribution to the knowledge content of the discipline through independent research. The qualifying student should display insight into the module discipline, as well as into research. This should include competence in the oral and written communication of the research process and findings.

HS8.14.2 Outcome

1. Expertise and critical knowledge in an area at the forefront of the field discipline or practice.
2. The ability to conceptualise new research initiatives and create new knowledge or practice.

Additional Selection Criteria:

1. Community Health Nursing Science: (P9N01Q)

1.1. An appropriate master's degree qualification in Nursing Science/Professional Practice. A student intending to enrol for a doctorate degree must have obtained a minimum of 65% in the completed master's degree programme.
1.2. Requirements for continued registration (usually during the second and third year of study): the student must demonstrate satisfactory progress with the thesis, as required by die Faculty Higher Degrees Committee of the University.
1.3. Registration as a Community Health Nurse with SANC.

2. Medical and Surgical Nursing Science: Critical Care Nursing (General): (P9N06Q)

2.1. An appropriate master's degree qualification in Advanced Nursing Science/Professional Practice. A student intending to enrol for a doctorate degree must have obtained a minimum of 65% in the completed master's degree programme.
2.2. Requirements for continued registration (usually during the second and third year of study): the student must demonstrate satisfactory progress with the thesis, as required by die Faculty Higher Degrees Committee of the University.

2.3. Registration as a Critical Care Nurse with SANC.

3. Maternal and Child Nursing Science: Advanced Midwifery and Neonatal Nursing Science: (P9N05Q)

3.1. An appropriate master's degree qualification in Nursing Science/Professional Practice. A student intending to enrol for a doctorate degree must have obtained a minimum of 65% in the completed master's degree programme.
3.2. Requirements for continued registration (usually during the second and third year of study): the student must demonstrate satisfactory progress with the thesis, as required by die Faculty Higher Degrees Committee of the University.
3.3. Registered as an Advance Midwife and Neonatal Nurse with SANC.

4. Professional Nursing Science: Nursing Education: (P9N14Q)

4.1 An appropriate master's degree qualification in Nursing Science/Professional Practice. A student intending to enrol for a doctorate degree must have obtained a minimum of 65% in the completed master's degree programme.
4.2 Requirements for continued registration (usually during the second and third year of study): the student must demonstrate satisfactory progress with the thesis, as required by die Faculty Higher Degrees Committee of the University.
4.3 Registration as a Post Basic Nurse Educator with SANC.

5. Psychiatric Mental Health Nursing Science: (P9N02Q)

5.1. An appropriate master's degree qualification in Nursing Science/Professional Practice. A student intending to enrol for a doctorate degree must have obtained a minimum of 65% in the completed master's degree programme.
5.2. Requirements for continued registration (usually during the second and third year of study): the student must demonstrate satisfactory progress with the thesis, as required by die Faculty Higher Degrees Committee of the University.
5.3 Registration as a Psychiatric Nurse with SANC.

6. Professional Nursing Science: (P9N03Q)

6.1 An appropriate master's degree qualification in Nursing Science/Professional Practice. A student intending to enrol for a doctorate degree must have obtained a minimum of 65% in the completed master's degree programme.
6.2 Requirements for continued registration (usually during the second and third year of study): the student must demonstrate satisfactory progress with the thesis, as required by the Faculty Higher Degrees Committee of the University.

7. Community Health Nursing Science: Primary Health Care: (P9N08Q)

7.1 An appropriate master's degree qualification in Nursing Science/Professional Practice. A student intending to enrol for a doctorate degree must have obtained a minimum of 65% in the completed master's degree programme.
7.2 Requirements for continued registration (usually during the second and third year of study): the student must demonstrate satisfactory progress with the thesis, as required by the Faculty Higher Degrees Committee of the University.
7.3 Registration as a Primary Health Care Nurse with SANC.

8. Community Health Nursing Science: Occupational Health Nursing Science: (P9N09Q)

8.1 An appropriate master's degree qualification in Nursing Science/Professional Practice. A student intending to enrol for a doctorate degree must have obtained a minimum of 65% in the completed master's degree programme.
8.2 Requirements for continued registration (usually during the second and third year

of study): the student must demonstrate satisfactory progress with the thesis, as required by the Faculty Higher Degrees Committee of the University.

8.3 Registration as an Occupational Health Nurse with SANC.

HS8.14.3 Rules of access and admission requirements

1. At entrance level, the prospective student should have a minimum of 180 approved credits at level 9.
2. The prospective student should have obtained a minimum of 65% in the completed master's degree programme.
3. Registration at SANC as a Nurse in the field that the speciality has been chosen if necessitated by the research topic.
4. PhD orientation programme will be by invitation and will not be compulsory for the selection to the programme. The programme adds value to the knowledge acquisition.

HS8.14.4 Pass requirements

Refer to the Academic Regulations of the University of Johannesburg.

HS8.14.5 Curriculum

A research thesis. The research component is 100%.

HS9.0 DEPARTMENT OF OPTOMETRY

HS9.1 BACHELOR OF OPTOMETRY (B9O02Q)

Duration of programme
Full-time: Minimum 4 years and Maximum 6 years
NQF Level 8, 480 Credits

HS9.1.1 Purpose

The primary purpose of this qualification is to provide qualifying students with the ability to:

1. Perform visual examinations and relevant procedures included in the scope of Optometry (as stipulated by the Professional Board of Optometry and Dispensing Opticians) in the clinical environment as an optometrist.
2. Independently apply promotive, diagnostic and treatment strategies in a cost-effective manner appropriate to the needs of the community.
3. Use critical reasoning for holistic optometric management strategies in the diagnosis.
4. Establish a foundation for research and life skills for lifelong learning.

HS9.1.2 Outcomes

1. Apply thorough competency in professional and clinical responsibilities, scientific optometric skills, optical and allied technologies to ascertain the accuracy of the prescription of the eye care products to visually compromised people.
2. Apply scientific health care skills and optometric technologies in the interactive consultation of patient history while adhering to appropriate medico-legal ethics, health and safety regulations and codes of conduct.
3. Apply scientific health care skills and optometric technologies in the examination of eye and eye related conditions within the context of health services appropriate to the needs of the community, while adhering to appropriate medico-legal ethics, health and safety regulations and codes of conduct.
4. Interact consultatively in the diagnosis of eye and eye related conditions and delivery

of eye care products, therapy and medication to visually compromised people, with knowledge of minimum standards of optometric care.
5. Interact consultatively in the management and delivery of eye care products, therapy and medication to visually compromised people, with knowledge of minimum standards of optometric care.
6. Record and maintain legible, secure data and patient information while adhering to appropriate medico-legal ethics, health and safety regulations and codes of conduct stated in the patient charter.
7. Manage and administer human, technical and other resources to ensure optimal diagnosis, prescription and delivery of eye and visual care products or services.
8. Apply self-reflective learning strategies to continually improve the optometrically related service within health care services appropriate to the specific needs of the patient/client to ensure professional contribution to the needs of the society.

HS9.1.3 Rules of access and admission requirements

Please note:

The admission requirements stated below are the minimum requirements to be considered for selection. Even if all minimum requirements are met, due to selection being based on academic excellence and limited number of places available in the program, acceptance into the program is not assured.

1. Language requirements.
2. Students who register at UJ for the first time for the Bachelor of Optometry degree presented through the medium of English must have obtained one of the following results (as the minimum) in their final Grade 12 examination: C symbol for English first Language, HG C symbol for English second Language, HG B symbol for English, SG.
3. Grade 12 Mathematics HG at least 60% (C Symbol).
4. Grade 12 Science HG at least 60% (C Symbol).
5. Grade 12 Biology HG at least 60% (C Symbol). Biology may be substituted with Grade 12 Physiology HG at least 60% (C Symbol).
6. Six (6) subjects will be considered.

A National Senior Certificate (NSC) - APS Score with minimum requirements as shown below:
(Exclude Life Orientation when calculating APS)

Minimum APS	**Language of teaching and Learning**	**Mathematics**	**Mathematical Literacy**	**Physical Sciences**	**Life Sciences**
31	**5**	**5**	**Not accepted**	**5**	**5**

Selection criteria

The Department of Optometry of the University of Johannesburg accepts a limited number of students per academic year in line with the enrolment target of the University. The decision to limit numbers is based on available facilities in the Optometry Department, number of students qualifying nationally from other academic institutions as well as compliance with the rules and regulations of the Professional Board of Optometry and Dispensing Opticians. For these reasons, and the high academic demand of the course it is necessary to apply an academic selection process. The selection process targets the

most successful students for this course.

Selection is based purely on academic results. Please read together with **HS9.1.3** regarding rules of access. Selection is done by the Student Enrolment Centre (SEC).

Provisional acceptance will be based on Grade 11 final marks. Students must however attain the minimum requirements as in **HS9.1.3** in order to maintain their selection.

Students applying from other Universities and students with other degrees will also be considered. The selection is based on academic performance and an average of 65% for all modules passed is required for consideration. Students applying from other Universities should be in good standing with that Institution and also comply with the minimum requirements of that of a Grade 12 applicant.
Selection takes place based on first semester academic results. If students do not maintain similar academic performance, selection will be forfeited.

The Department reserves the right to admit a student that may not meet the stipulated requirements as set out. Furthermore, admission is at the discretion of the Department.

As soon as selection and provisional acceptance are completed, students will be notified by the Student Enrolment Centre. Students that are not accepted will be referred to their second choices indicated on the application form.

Decisions taken are final and no exceptions will be made. No late applications will be considered.

HS9.1.4 Pass requirements

1. The Academic Rules and Regulations of the University of Johannesburg should be read in conjunction with the additional requirements for the program in particular **AR5.11.1** and **AR5.11.4**.
2. Class attendance is guided by **AR5.11.1** which states that “Students are expected to attend each class unless they have a legitimate reason, and where appropriate, the necessary evidence thereof, for being absent. **AR5.11.4** states that “Students are expected to attend a minimum of 80% of tutorials.
3. In order to continue to the second academic year in Optometry, a student must pass all the prescribed modules for the first academic year of study.
4. Students repeating part of the second year, but with credits in Optometry 1 and Dispensing Optometry 1 theory must still attend all practical sessions in these subjects in order to retain their credits. Students repeating part of the third year, but with credits in Optometry 2 and Dispensing Optometry 2 theory, must attend all practical sessions in these subjects in order to retain their credits.
5. Diagnostic Drug Proficiency: All fourth year students in Optometry have to prove their competency in the practical administration of diagnostic drugs and the use of related diagnostic instruments. The required pass mark in this proficiency examination is 75%.
6. Clinical rotations to community clinics, public hospitals and the primary healthcare train (Phelophepa) are compulsory.
7. All modules must be completed successfully, number of patients and clinic hours as prescribed by the Professional Board of Optometry and Dispensing Opticians completed and a research project report submitted, in order to successfully complete the program.
8. The maximum time to complete the Bachelor in Optometry degree is 6 years.
9. A possible fifth academic year may be required for therapeutics and/or community service. On graduating and after completing the required exit level outcomes for the degree, learners must apply to the HPCSA for full registration to practice as an Optometrist.

HS9.1.5 Curriculum

First year		
Module name	**Module code**	**Prerequisite code**
Semester one		
Chemistry 1C	CEM1CA1	
Physics 1C	PHY1CA1	
Human Anatomy 1A	HAN01A1	
Psychology 1A	PSY1AA1	
Mathematics 1A	MAT01A1	
Semester two		
Physics 1D	PHY1DB1	PHY1CA1
Human Anatomy 1B	HAN01B1	HAN01A1
Psychology 1B	PSY1BB1	PSY1AA1
Year Module		
Introduction to Optometry	OPI00Y1	
Second year		
Module name	**Module code**	**Prerequisite code**
Semester one		
Human Physiology 2A	HPH02A2	HAN01A1 HAN01B1
Microbiology 2A	MCB01A2	
Statistical Methods 1A	SMT01A1	
Semester two		
Human Physiology 2B	HPH02B2	HAN01A1 HAN01B1 HPH02A2
Biochemistry 1B	BIC01B1	
Year modules		
Ophthalmic Optics	OOP00Y2	PHY1CA1 MAT01A1 PHY1DB1 OPI00Y1

Dispensing Optometry 1	DOP00Y2	PHY1CA1 MAT01A1 PHY1DB1
Optics	OPO00Y2	PHY1CA1 MAT01A1 PHY1DB1
Optometry 1 Practical	OPP00Y2	PHY1CA1 MAT01A1 OPI00Y1 PHY1DB1
Optometry 1 Theory	OPT00Y2	PHY1CA1 MAT01A1 OPI00Y1 PHY1DB1
General Pathology for Optometry	OPA00Y2	HAN01A1 HAN01B1 CEM1CA1
Third year		
Module name	**Module code**	**Prerequisite code**
Semester one		
Ocular Anatomy and Physiology 3A	OAF03A3	HAN01A1 HAN01B1 HPH02A2 HPH02B2 OPA00Y2
Semester two		
Ocular Anatomy and Physiology 3B	OAF03B3	HAN01A1 HAN01B1 HPH02A2 HPH02B2 OPA00Y2 OAF03A3
Year modules		
Binocular Vision 1	BVI00Y3	OPP00Y2 OPT00Y2
Contact Lenses 1	CTL00Y3	OPP00Y2 OPT00Y2 BIC01B1 OPO00Y2 OOP00Y2 MCB01A2

Optometry 2 Practical	OPP00Y3	OPP00Y2 OPT00Y2 DOP00Y2 OPO00Y2
Optometry 2 Theory	OPT00Y3	OPP00Y2 OPT00Y2 DOP00Y2 OPO00Y2
Dispensing Optometry 2	DOP00Y3	DOP00Y2 OPP00Y2 OPT00Y2
Paediatric Optometry 1	PED00Y3	OPP00Y2 OPT00Y2 PSY1AA1 PSY1BB1
General and Ocular Pharmacology	OPH00Y3	OPA00Y2 HAN01A1 HAN01B1 HPH02A2 HPH02B2 MCB01A2
Ocular Pathology 1	OPA00Y3	OPA00Y2 OPP00Y2 OPT00Y2 MCB01A2 HPH02A2 HPH02B2
Fourth year		
Module name	**Module code**	**Prerequisite code**
Year modules		
Binocular Vision 2	BVI00Y4	BVI00Y3 OPP00Y3 OPT00Y3
Contact Lenses 2	CTL00Y4	CTL00Y3 OPP00Y3 OPT00Y3 OPH00Y3 OPA00Y3
Low Vision 1	LVI00Y4	OPP00Y3 OPT00Y3 OPA00Y3
Ocular Pathology 2	OPA00Y4	OPA00Y3 OPH00Y3 OPP00Y3 OPT00Y3

Paediatric Optometry 2	PED00Y4	PED00Y3 BVI00Y3 OPP00Y3 OPT00Y3 CTL00Y3
Optometry 3 Research Methods	OPP00Y4	OPP00Y3 OPT00Y3 BVI00Y3 PED00Y3 CTL00Y3
Optometry 3 Theory	OPT00Y4	OPP00Y3 OPT00Y3 BVI00Y3 PED00Y3 CTL00Y3
Community and Environmental Optometry	COB01Y4	OPP00Y3 OPT00Y3
Business Practice, Ethics and Jurisprudence	COB02Y4	OPP00Y3 OPT00Y3

HS9.2 MASTER OF PHILOSOPHY IN OPTOMETRY (M9O01Q)

Duration of programme
Full-time: Minimum 1 year and Maximum 2 years
Part-time: Minimum 1 year and Maximum 3 years
NQF Level 9, 180 Credits (HEQF aligned)
Research dissertation 100%

HS9.2.1 Purpose

The primary purpose of this qualification is to provide qualifying students with the ability to:

1. Perform independent scientific research with an original component.
2. Contribute to knowledge of and insight into optometry as well as the specific discipline of research.
3. Display skills in related research methodologies and in proper formulation through a Master's dissertation.
4. Only a Research Masters can be done.

HS9.2.2 Outcomes

The student will be able to:

1. Identify, formulate, prepare and solve research problems.
2. Execute the research project at the appropriate level.
3. Collect, organize, check, evaluate and write a proper literature review organizing the appropriate information in an understandable and logic manner.
4. Acquire learning abilities in the research context including the assessment of scientific literature, execution of research methodologies including the gathering of data and evaluating the information obtained.
5. Report research findings at the appropriate level.
6. Make conclusions, suggestions and recommendations based on the data collected that are reasonable and justifiable.

HS9.2.3 Rules of access and admission requirements

A Bachelor's degree in Optometry (or equivalent).

HS9.2.4 Pass requirements

Refer to the Academic Regulations of the University of Johannesburg.

HS9.2.5 Curriculum

A research dissertation on an approved topic:

Module name	Module code
Semester one	
Dissertation: Optometry Semester 1	OPT9X01
Semester two	
Dissertation: Optometry Semester 2	OPT9X02

HS9.3 MASTER OF HEALTH SCIENCES (OPTOMETRY) (M9OT1Q)

Duration of programme
Full-time: Minimum 1 year and Maximum 2 years
Part-time: Minimum 1 year and Maximum 3 years
NQF Level 9, 180 Credits (HEQF aligned)
Research dissertation 100%

HS9.3.1 Purpose

The primary purpose of this qualification is to provide qualifying students with the ability to:

1. Perform independent scientific research with an original component.
2. Contribute to knowledge of and insight into optometry as well as the specific discipline of research.
3. Display skills in related research methodologies and in proper formulation through a Master's dissertation.
4. Only a Research Masters can be done.

HS9.3.2 Outcomes

The students will be able to:

1. Identify, formulate, prepare and solve research problems.
2. Execute the research project at the appropriate level.
3. Collect, organize, check, evaluate and write a proper literature review organizing the appropriate information in an understandable and logic manner.
4. Acquire learning abilities in the research context including the assessment of scientific literature, execution of research methodologies including the gathering of data and evaluating the information obtained.
5. Report research findings at the appropriate level.
6. Make conclusions, suggestions and recommendations based on the data collected that are reasonable and justifiable.

HS9.3.3 Rules of access and admission requirements

A Bachelor's degree in Optometry (or equivalent).

HS9.3.4 Pass requirements

Refer to the Academic Regulations of the University of Johannesburg.

HS9.3.5 Curriculum

A research dissertation on an approved topic:

Module name	**Module code**
Semester one	
Dissertation: Optometry Semester 1	OPT9X01
Semester two	
Dissertation: Optometry Semester 2	OPT9X02

HS9.4 DOCTOR OF PHILOSOPHY IN HEALTH SCIENCES: OPTOMETRY (P9HS4Q)

Duration of programme
Full-time: Minimum 2 years and Maximum 4 years
Part-time: Minimum 2 years and Maximum 5 years
NQF Level 10, 360 Credits
Research thesis 100%

HS9.4.1 Purpose

The primary purpose of this qualification is to provide qualifying students with the ability to:

1. Perform independent, original and creative scientific research.
2. Contribute significant knowledge to and insight into optometry as well as the specific discipline of research.
3. Display skills in related research methodologies and in proper formulation through a doctoral dissertation.
4. Reflect upon decision-making, self-directedness and contributions to optometric science.
5. Only a Research Doctorate can be done.

HS9.4.2 Outcomes

The student will be able to:

1. Identify and/or create an original research problem.
2. Design, construct and execute a research project at the highest level.
3. Collect appropriate data in a precise and logical manner and evaluate and judge the information obtained.
4. Acquire learning abilities in the research context including the assessment of scientific literature, construction of a research project, execution of project, analysis of data and producing sound scientific arguments.
5. Make relevant conclusions based on the data collected that are reasonable and justified.

HS9.4.3 Rules of access and admission requirements

A relevant Master's degree.
Refer to the Academic Regulations of the University of Johannesburg.

HS9.4.4 Pass requirements

1. In conjunction with the research supervisor/s, the Department of Optometry Research Committee shall appoint for each thesis three examiners, who shall be responsible for external examination.
2. A minimum of one of the external examiners shall be based external to the country.

HS9.4.5 Curriculum

10. A student for a Doctoral degree shall be required to pursue an approved programme of research on some subject falling within the scope of the studies represented in the Department of Optometry.
11. Such programme shall make a distinct contribution to the knowledge or understanding of the subject and afford evidence of originality shown either by the discovery of new facts and/or by the exercise of independent critical power.

A research thesis. The research component is 100%.

Module name	Module code
Semester one	
Research Project and Thesis: Health Sciences (Optometry)	RPO10X1
Semester two	
Research Project and Thesis: Health Sciences (Optometry)	RPO10X2

HS10.0 DEPARTMENT OF PODIATRY

HS10.1 BACHELOR OF HEALTH SCIENCES IN PODIATRY (B9P01Q)

Duration of programme
Full-time: Minimum 4 years and Maximum 6 years
NQF Level 8, 480 Credits

HS10.1.1 Purpose

The purpose of the qualification is to produce professional podiatry graduates competent in the knowledge and skills required for managing and providing an integrated, holistic scientifically based podiatric health care service to all sectors of society. The qualification develops reflective, caring practitioners capable of integrating principles, theory, proven techniques, and relevant clinical skills in the delivery of a service focusing on promotion of foot health, prevention, diagnosis, treatment and rehabilitation of foot and lower limb related problems. Skills developed in scientific enquiry, critical thinking and problem-solving enable graduates to conduct research, undertake further study and become life-long learners. Graduates register with the HPCSA entitling them to practice independently and within a multidisciplinary team in the private or public health sector or in education, research, occupational health, and corporate sector.

HS10.1.2 Outcomes

ELO 1 Demonstrate competency in the performance of routine and specialised podiatric skills and techniques to clinically assess, diagnose, treat and manage conditions and/or pathologies affecting the foot and lower limb.
ELO 2 Apply the principles, proven techniques and specialised skills required for the delivery and promotion of foot health and the prevention and rehabilitation of the foot and lower limb problems.
ELO 3 Recognise and appraise the signs and symptoms of systemic conditions that impact on the foot and lower limb for the purpose of treatment, referral and subsequent management.
ELO 4 Manage a clinical practice and deliver evidence based podiatric services within the public or private healthcare environment effectively, demonstrating professionalism and an entrepreneurial ability.
ELO 5 Demonstrate the application of pertinent knowledge of the psycho-social, biological and basic sciences to podiatric practice.
ELO 6 Apply knowledge of Health and Safety regulations; Code/s of Practice; Ethics; Human Rights and Medical Law in the optimal performance of podiatric practice.
ELO 7 Develop research skills and conduct research within a podiatric context in order to contribute to the development of the profession, continue with lifelong learning and become a reflective practitioner.

HS10.1.3 Rules of access and admission requirements

A Senior Certificate with Matriculation exemption, or an equivalent qualification at an equivalent standard as determined by a Status Committee, with the following:

1. English with at least a Higher Grade D or Standard Grade C symbol and,
2. Two of the following compulsory subjects:
   2.1 Biology with at least a Higher Grade D or Standard Grade C symbol.
   2.2 Physical Science with at least a Higher Grade D or Standard Grade C symbol.
   2.3 Mathematics with at least a Higher Grade D or Standard Grade C symbol.

A National Senior Certificate (NSC) - APS Score with minimum requirements as shown below:
(Exclude Life Orientation when calculating APS)

Minimum APS	**Language of teaching and Learning**	**Mathematics**	**Mathematical Literacy**	**Physical Sciences**	**Life Sciences**
28	**5**	**4**	**Not accepted**	**4**	**4**

HS10.1.4 Specific rules and regulations for Podiatry students

1. Students must familiarize themselves with the internal rules and regulations of the Department. These rules and regulations, are set out in the Department's Clinical Conduct Guidelines, are binding.
2. The programme is not offered as a part time or distance- learning programme. Students who are in full time employment will be unable to continue with their studies.
3. All students (even if not registered for Clinical Practice within that academic year) are required to see a minimum number of patients each year as determined by the department whilst they are registered. This is a requirement to ensure that clinical competencies are retained.

4. Final (4th) year students who fail any module or fail to complete their research project are required to register for Clinical Practice Practical module the following year even if they have passed this module to ensure that clinical competencies are retained as per HPCSA requirements.
5. All registered students are required to attend clinics as rostered and must provide reasons in writing for non-attendance of clinics. If a student fails to attend a rostered clinic, he/she must plan with the year coordinator for make-up clinic shift.
6. Students are required to adhere to the requirements of the department relating to personal appearance and dress code during clinics.

Clinical practice (Work integrated learning)

1. Students must, by the end of each year, complete the clinical hour requirements which are detailed in the Clinical Practice Practical 1, 2, 3 and 4 Learner Guides.
2. Clinical practice practical/placement is integrated into the academic programme and developed in conjunction with the mutual assistance of clinical training partners, for this reason, clinical rosters cannot be personalized.
3. Attendance of all rostered clinics, clinical workshops and practicals is compulsory and failure to comply will lead to disciplinary action.
4. During the four-year of study, students must perform clinical work in the University of Johannesburg Podiatry clinic and at other clinical training sites around Gauteng.

HS10.1.5 Pass requirements

1. Students are promoted:
   1.1 To full second-year status if they have passed all the first-year modules.
   1.2 To full third-year status if they have passed all the second-year modules.
   1.3 To the fourth year of study if they have passed all third-year modules.
2. Clinical Practice modules credits are retained provided that both the theory and practical modules are passed during the same academic year. Students who fail either the theory or the practical component of Clinical Practice cannot retain credits for the passed component and will be required to re-register for both the theory and practical modules the following year. Students retain credits for all other modules passed.
3. Due to the integrated nature of the theory and practical modules, 80% attendances of all theoretical classes are mandatory. Students will have to provide reasons in writing for non-attendance of classes.
4. Students may register for a module in the following year, provided that:
   4.1 The prerequisite modules were passed.
   4.2 The module selection does not lead to timetable clashes.
   4.3 The module is not a clinical/practical module.
5. In order to gain re-admission to the programme first year students must pass a minimum of 60% (i.e., 5 of the 7) of first year modules.
6. Students may not register for the same module for a third time without permission from the Head of Department and Executive Dean.
7. 100% attendance of and participation in, the practical and experiential components are compulsory. If students fail to comply with this requirement, they will fail the practical.
8. Students have a maximum of 6 years to complete the four-year degree.

HS10.1.6 Curriculum

First year		
Module name	**Module code**	**Prerequisite code**
Semester one		
Basic Science: Physics	PHB1AA1	
Semester two		
Basic Science: Chemistry	CHB1BB1	
Year modules		
Anatomy and Physiology	ANTPHY1	
Clinical Practice 1 Practice	CLPPHY1	
Human Sciences	HUMSHY1	
Medical Sciences	MEDSHY1	
Podiatric Medicine 1 Theory	PDMTHY1	
Second year		
Module name	**Module code**	**Prerequisite code**
Semester one		
Podiatric Anatomy 2 (Theory)	PDATHA2	ANTPHY1
Podiatric Anatomy 2 (Practical)	PDAPHA2	ANTPHY1
Year Modules		
Clinical Practice 2 (Theory)	CLPTHY2	PDMTHY1 CLPPHY1 MEDSHY1
Clinical Practice 2 (Practice)	CLPPHY2	PDMTHY1 CLPPHY1 MEDSHY1
Podiatric Orthotics 2 (Theory)	PDOTHY2	PDMTHY1 CLPPHY1
Podiatric Orthotics 2 (Practice)	PDOPHY2	PDMTHY1 CLPPHY1
Podiatric Medicine 2	PDMTHY2	PDMTHY1 CLPPHY1 MEDSHY1

Physiology 2	PHYGHY2	ANTPHY1 PDMTHY1 CLPPHY1
Third year		
Module name	**Module code**	**Prerequisite code**
Year Modules		
Clinical Practice 3 (Theory)	CLPTHY3	CLPTHY2 PDOTHY2 PHYGHY2
Clinical Practice 3 (Practice)	CLPPHY3	CLPPHY2 PDOPHY2 PDMTHY2
Introduction to Pharmacology	INTPHY3	CLPTHY2 PDMTHY2 PHYGHY2
Pathology and Medicine	PATMHY3	CLPTHY2 PDMTHY2 PHYGHY2
Podiatric Medicine 3	PDMNHY3	CLPTHY2 PDMTHY2 PDOTHY2
Podiatric Surgery	PODSHY3	PDMTHY2 PDOTHY2 CLPTHY2
Research Methodology	REMPHY3	
Fourth year		
Module name	**Module code**	**Prerequisite code**
Semester one		
Private Practice Management	PPMPHA4	CLPTHY3 CLPPHY3
Semester two		
Health Management Systems	HMSPHB4	CLPTHY3 CLPPHY3
Year Modules		
Applied Pharmacology	APPHSY4	INTPHY3 CLPTHY3 PDMNHY3 PATMHY3

Clinical Practice 4 (Practical)	CLPHSY4	CLPTHY3 CLPPHY3 INTPHY3 PATMHY3 PDMNHY3
Clinical Practice 4 (Theory)	CLPTHY4	CLPTHY3 CLPPHY3 INTPHY3 PATMHY3 PDMNHY3
Pod Med: 4 Podogeriatrics	PDMGHY4	CLPTHY3 CLPPHY3 INTPHY3 PATMHY3 PDMNHY3
Pod Med: Podopaediatrics	PDMPHY4	CLPTHY3 CLPPHY3 INTPHY3 PATMHY3 PDMNHY3
Pod Med: Sports Medicine	PDMSHY4	CLPTHY3 CLPPHY3 INTPHY3 PATMHY3
Research Project and Dissertation	REPPHY4	REMPHY3

HS10.2 MASTER OF HEALTH SCIENCES: PODIATRY (M9PD1Q)

Duration of programme
Full-time: Minimum 1 year and Maximum 2 years
Part-time: Minimum 1 year and Maximum 3 years
NQF level 9
Research dissertation 100%

HS10.2.1 Purpose

The primary purpose of this qualification is to provide qualifying students with the ability to:

1. Perform independent scientific research with an original component.
2. Contribute to knowledge of and insight into podiatry as well as the specific discipline of research.
3. Display skills in related research methodologies and in proper formulation through a Master's dissertation.
4. Reflect upon decision-making, self-directedness and contributions to podiatric science.

HS10.2.2 Outcomes

The student will be able to:
1. Identify, formulate, prepare and solve research problems.
2. Execute the research project at the appropriate level.
3. Collect, organize, check, evaluate and write a proper literature review organizing the appropriate information in an understandable and logic manner.

4. Acquire learning abilities in the research context including the assessment of scientific literature, execution of research methodologies including the gathering of data and evaluating the information obtained.
5. Report research findings at the appropriate level.
6. Make conclusions, suggestions and recommendations based on the data collected that are reasonable and justifiable.

HS10.2.3 Rules of access and admission requirements

A Bachelor's degree in Podiatry or an equivalent qualification in Podiatry at an equivalent standard as determined by a Status Committee and approved by the Faculty Board.

Applicants should be registered with the HPCSA as a Podiatrist and have at least a minimum of one-year clinical experience.

The Department require a two-page synopsis of the research topic and methodology before the student is allowed to register or commence with his/her Master's studies.

Selection criteria

Selection will be based on:

- Consideration of a draft proposal by the Department's Research Committee.
- Prior academic performance
- Structured personal interview

HS10.2.4 Pass requirements

Pass mark of 50% for the dissertation.

HS10.2.5 Curriculum

A research project and a dissertation: The research component is 100%.

Module name	Module code
Semester one	
Research Project and Dissertation: Health Sciences (Podiatry)	DPD9XA1
Semester two	
Research Project and Dissertation: Health Sciences (Podiatry)	DPD9XB1

HS10.3 DOCTOR OF PHILOSOPHY IN HEALTH SCIENCES: PODIATRY (P9HS5Q)

Duration of programme
Full-time: Minimum 2 years and Maximum 4 years
Part-time: Minimum 2 years and Maximum 5 years
NQF level 10, 360 Credits
Research thesis 100%

HS10.3.1 Purpose

To develop podiatry graduates that can make original contribution to podiatry knowledge and healthcare in general through conducting and disseminating high quality novel research to

support and enhance the evidence-base for podiatry.

HS10.3.2 Outcomes

On completion of this qualification, the graduate should be able to demonstrate:

1. broad knowledge and systematic understanding of research as well as advanced and up-to-date specialised knowledge in podiatry,
2. familiarity with research methodology in general and the methods of podiatric and healthcare research in particular,
3. the capacity for scholarly analysis and synthesis as well as an ability to review and assess new and complex phenomena, issues and situations independently and critically,
4. intellectual autonomy and disciplinary integrity as well as the ability to make assessments of research ethics,
5. the ability to identify and formulate research problem with scholarly precision critically, independently, and innovatively, and to plan and use appropriate methods to undertake original research,
6. through a dissertation the ability to make a significant contribution to the production of knowledge through his or her own research,
7. the ability in both national and international contexts to present and discuss research and research findings authoritatively in speech and writing and in dialogue with the academic community and society in general,
8. the ability to identify the need for further knowledge,
9. specialised insight into the possibilities and limitations of research, its role in society and the responsibility of the individual for how it is used, and
10. the capacity to contribute to social development and support the learning of others both through research and education and in professional capacity.

HS10.3.3 Rules of access and admission requirements

Selection criteria

1. A Master's degree in Podiatry or an equivalent qualification with a minimum of 65% for the dissertation.
2. A minimum of three years clinical experience.
3. Candidates will be required to submit an outline research proposal.
4. Selection process is based on consideration of the research proposal for the PhD, the availability of a suitable supervisor, and an evaluation of the theoretical and methodological expertise required to complete the study.

HS10.3.4 Pass requirements

Pass mark of 50% for the thesis.

HS10.3.5 Curriculum

A research thesis. The research component is 100%.

Module name	**Module code**
Semester one	
Research Project and Thesis: Health Sciences (Podiatry)	RPP10X1

Semester two	
Research Project and Thesis: Health Sciences (Podiatry)	RPP10X2

HS11.0 DEPARTMENT OF SPORT AND MOVEMENT STUDIES

HS11.1 HIGHER CERTIFICATE IN SPORT ADMINISTRATION (F9SA1Q)

Duration of programme
Full-time: Minimum 1 year and Maximum 2 years
NQF Level: 5, 120 Credits

HS11.1.1 Purpose

The purpose of the Higher Certificate in Sport Administration is to provide learners with knowledge, skills and competencies to ensure professional, ethical and effective administration of sport clubs and events. This will be ensured through education and training in the principles of club administration, facility, competition and event administration, marketing, human resources, financial, coaching administration.

HS11.1.2 Outcomes

Students should be able to:

1. Develop a personal philosophy, vision and code of conduct for the administration of sport clubs.
2. Demonstrate knowledge, skills and competencies in the administration of the human resources, finances, marketing and legal aspects of sport clubs.
3. Demonstrate knowledge, skills and competencies in the administration of sport facilities that includes turf administration, maintenance, scheduling and booking, equipment and risk administration.
4. Apply knowledge, skills and competencies in the administration of sport events and competitions, including for people with disability.
5. Develop leadership skills and competencies within a framework of ethical behaviour.

HS11.1.3 Rules of access and admission requirements

A National Senior Certificate (Grade 12) or equivalent qualification or relevant experience in the sport industry as determined by the RPL committee and in line with the UJ's RPL policy. Proficiency in English.

A National Senior Certificate - APS Score with minimum requirements as shown below:
(Exclude Life Orientation when calculating APS)

Minimum APS	Language of teaching and learning (English)	Subject 1	Subject 2	Subject 3
18	3	3	3	3

**National certificate endorsement*

Selection criteria

The Department of Sport and Movement Studies base selection on academic merit and availability of places in the programme.

HS11.1.4 Pass requirements

Students are promoted:

1. When all modules are passed with a final mark of 50% and higher.
2. Students retain credit for all modules passed.
3. Students must re-apply for continuation of their studies if they failed to pass an accumulative total of modules of at least:
   3.1 Three (3) modules after the first semester of study.
   3.2 Seven (7) Modules after the first year of study.
4. Work integrated learning: Students must accumulate 150 hours of approved practical work over the year.
5. First Aid Level 1: Students must complete the First Aid Level 1 course at a Departmental approved service provider.

HS11.1.5 Curriculum

First year		
Module Name	**Module code**	**Prerequisite code**
Semester one		
Communication and Computer Literacy	CCLSAA1	See admission requirements.
Human Resource Administration in a Sport Club	HRASAA1	
Introduction to Sport Marketing and Administration	IMASAA1	
Principles and Administration of Coaching	PACSAA1	
Self-Management and Personal Skills Development	SMDSAA1	
Semester two		
First Aid Level 1	FALSAB1	
Financial Administration in Sport	FASSAB1	
Introduction to Sport Law	ISLSAB1	
People with Disability in Sport	PDSSAB1	
Sport Leadership and Ethics	SLESAB1	
Year Modules		
Facility, Competition and Event Administration	FCESAY1	
Sport and Club Administration	SCASAY1	

Work integrated learning (WIL)	WILSAY1	

HS11.2 HIGHER CERTIFICATE SPORT COACHING AND EXERCISE SCIENCES (F9SC2Q)

Duration of programme
Full-time: Minimum 1 year and Maximum 2 years
NQF Level: 5, 120 Credits

HS11.2.1 Purpose

The purpose of the Higher Certificate in Sport Coaching and Exercise Science is to provide sport coaches with knowledge and competencies to ensure that athletes are coached within a holistic framework of athlete development of the four domains for coaching (children, participation for adolescents and adults, emerging and talented athletes and high performance athletes). This will be ensured through the principles of coaching science, the knowledge of human sport performance, exercise physiology, developing the skills to identify common sports injuries and personal development.

HS11.2.2 Outcomes

Students should be able to:

1. Develop a personal coaching philosophy, vision and code of conduct.
2. Design and conduct basic fitness training protocols within the four domains of coaching.
3. Acquire the knowledge and skills to prevent common sport related injuries during coaching.
4. Identify key legal aspects and risks factors within the coaching and sport context.
5. Debate the key requirements for starting a sport club.
6. Develop a basic knowledge and understanding of sport facility and event management principles.

HS11.2.3 Rules of access and admission requirements

A National Senior Certificate (Grade 12) or equivalent qualification or relevant experience in the sport industry as determined by the RPL committee and in line with the UJ's RPL policy. Proficiency in English.

A National Senior Certificate - APS Score with minimum requirements as shown below:
(Exclude Life Orientation when calculating APS)

Minimum APS	**Language of teaching and learning (English)**	**Subject 1**	**Subject 2**	**Subject 3**
18	**3**	**3**	**3**	3

**National certificate endorsement*

Selection criteria

The Department of Sport and Movement Studies base selection on academic merit and availability of places in the programme.

HS11.2.4 Pass requirements

Students are promoted:

1. When all modules are passed with a final mark of 50% and higher.
2. Students retain credit for all modules passed.
3. Students must re-apply for continuation of their studies if they failed to pass an accumulative total of modules of at least:
   3.1 Three (3) modules after the first semester of study.
   3.2 Seven (7) modules after the first year of study.
4. Work integrated learning: Students must accumulate 100 hours of approved practical work over the year.
5. First Aid Level 1: Students must complete the First Aid Level 1 course at a Departmental approved service provider.

HS11.2.5 Curriculum

First year		
Module Name	**Module code**	**Prerequisite code**
Semester one		
Basic Injury Prevention	BIPSCA1	See admission requirements.
Communication and Computer Literacy	CCLSCA1	
Sport Club Administration	SCASCA1	
Self-Management and Personal Skills Development	SMDSAA1	
Semester two		
Basic Coaching Science	BCSSCB1	
First Aid Level 1	FALSAB1	
Introduction to Sport Law	ISLSAB1	
People with Disability in Sport	PDSSAB1	
Sport Leadership and Ethics	SLESAB1	
Year Modules		
Basic Anatomy and Physiology	BAPSCY1	
Coaching in the Four Domains	CFDSCY1	
Facility, Competition and Event Management	FCESAY1	
Work Integrated Learning (WIL)	WILSCY1	

HS11.3 DIPLOMA IN SPORT MANAGEMENT (D9S01Q)

Duration of programme
Full-time: Minimum 3 years and Maximum 5 years
NQF Level 6, 360 Credits

HS11.3.1 Purpose

Students will acquire knowledge and practical competencies in the administration and management of small sport enterprises as well as to reflect on their decisions made. More specifically, they will obtain those competencies in the functional aspects of management.

HS11.3.2 Outcomes

1. Students should be able to implement the functional management competencies in order to manage a small sport enterprise.
2. Students should be able to organise a sport club event utilizing the principles of event management.
3. Students should be able to do the administration of a small sport enterprise.
4. Students should be able to plan and implement a marketing plan for an event or small sport enterprise.

HS11.3.3 Rules of access and admission requirements

An FETC, Senior Certificate or an equivalent qualification at NQF 4 as determined by a Status Committee, with the following subjects:

1. Compulsory subject English with at least a Higher Grade E or Standard Grade D symbol.
2. Students who have successfully completed the Higher Certificate in Sport Administration or the Higher Certificate in Sport Coaching and Exercise Science may also be eligible for admission into the Diploma in Sport Management, provided that they have completed the required Grade 12 subjects according to the entry requirements of the Diploma.

A National Senior Certificate - APS Score with minimum requirements as shown below:
(Exclude Life Orientation when calculating APS)

Minimum APS	**Language of teaching**	**Mathematics**	**Mathematical Literacy**	**Life Sciences**	**Physical Sciences**
18 with Mathematics 19 with Mathematical Literacy	**3**	**3**	**4**	**Not applicable**	**Not applicable**

Selection criteria

The Department of Sport and Movement Studies base selection on academic merit and availability of places in the programme.

HS11.3.4 Pass requirements

Students are promoted:

1. To the second year of study if they have passed at least 2 modules (from either Sport Management 1A and B; or Business Management 1A and B), plus 2 other modules; to the third year of study if they have passed at least 10 modules, including Sport Management 2 and Business management 2.
2. Students must take all outstanding modules of the previous year of study before they may take modules of the following year of study, limited to a maximum of 6 modules in any one year of study.
3. Students retain credit for all modules passed.
4. Students must re-apply for continuation of their studies if they failed to pass an accumulative total of modules of at least:
   4.1. 3 modules after the first semester of study (one must be Sport Management 1A or Business Management 1A).
   4.2. Modules after the first year of study.
   4.3. 12 Modules after the second year of study.
   4.4. 18 Modules after the third year of study.
5. Work integrated learning: Students must accumulate 900 hours of approved practical work over their three years of study in Sport Management 1C, 2C and 3C. The Department will monitor and evaluate the student's progress.

HS11.3.5 Curriculum

First year		
Module Name	**Module code**	**Prerequisite code**
Semester one		
Marketing 1A	MAR01A1	See admission requirements.
Business Management 1A	BMA01A1	
English 1A	PME1AA1	
Sport Management 1A	STM1AA1	
Semester two		
Marketing 1B	MAR01B1	
Sport Management 1B	STM1BB1	
English 1B	PME1BB1	
Business Management 1B	BMA01A1	
Year Modules		
Sport Management 1C	STM11Y1	
Second year		
Module Name	**Module code**	**Prerequisite code**
Semester one		
Marketing 2A	MAR02A2	BMA01A1 BMA01B1

Sport Management 2A	STM2AA2	STM1AA1 STM1BB1 STM11Y1
Public Relations 1A	PRL1AA1	
End-User Computing A	EUC01A1	
Business Management 2A	BMA02A2	BMA01A1 BMA01B1
Semester two		
Marketing 2C	MAR02C2	BBH11A1 BBH11B1
Sport Management 2B	STM2BB2	STM1AA1 STM1BB1 STM11Y1
Public Relations 1B	PRL1BB1	
End-User Computing B	EUC01B1	
Business Management 2B	BMA02B2	BMA011A BMA01B1
Year Modules		
Sport Management 2C	STM22Y2	STM1AA1 STM1BB1 STM11Y1
Third year		
Module Name	**Module code**	**Prerequisite code**
Semester one		
Sport Management 3A	STM3AA3	STM2AA2 STM2BB2 STM22Y2
Sport and Physical Recreation Studies 3A	SPR3AA3	
Business Management 3A	BMA03A3	BMA02A2 BMA02B2
Semester two		
Sport Management 3B	STM3BB3	STM2AA2 STM2BB2 STM22Y2
Sport and Physical Recreation Studies 3B	SPR3BB3	
Business Management 3B	BMA03B3	BMA02A2 BMA02B2
Year Modules		

Sport Management 3C	STM33Y3	STM2AA2 STM2BB2 STM22Y2

HS11.4 BACHELOR OF COMMERCE IN SPORT MANAGEMENT (B9S14Q)

Duration of programme
Full-time: Minimum 3 years and Maximum 5 years
NQF Level 7, 360 Credits

HS11.4.1 Purpose

The student should develop applied competencies in the mastering, analysis, interpretation and application of management principles in the fitness and health, coaching, teaching and retailing sectors of the sport industry.

HS11.4.2 Outcome

Students will develop the ability to internalize, reflect on, and communicate strategic decisions and applications effectively through the correct and suitable use of scientific language and technical terminology associated with sport management. The qualification will facilitate effective learning through exposure to, and the application of, appropriate learning styles, thereby enabling them to navigate and holistically manage the dynamic context of sport management.

HS11.4.3 Rules of access

A Senior Certificate, or an equivalent qualification at an equivalent standard as determined by a Status Committee.

A National Senior Certificate (NSC) - APS Score with minimum requirements as shown below:
(Exclude Life Orientation when calculating APS)

APS	Language of teaching and Learning (English)	Mathematics	Mathematical Literacy or Technical Mathematics	Physical Sciences	Life Sciences
23	**4**	**4**	**Not accepted**	**Not applicabl**	**Not applicabl**

**Mathematics (HG) must be minimum D (50%+) or Mathematics (SG) must be minimum C (60%+)*

HS11.4.4 Pass Requirements

To be admitted to any module in the second or third academic year of study, and progress to the following year of study, students must have passed at least 60% of the modules in the previous year of studies.

HS11.4.5 Curriculum

First year		
Module name	**Module code**	**Prerequisite code**
Semester one		
Analytical Techniques A	ATE01A1	
Industrial Psychology 1A	IPS11A1	
Kinesiology 1A	KIN01A1	
Sport Administration 1A	SPA01C1	
Anatomy & Physiology 1A	ANP01A1	
Business Management 1A	BMA11A1	
Semester two		
Analytical Techniques B	ATE01B1	ATE01A1
Industrial Psychology 1B	IPS21B1	
Kinesiology 1B	KIN01B1	
Sport Practice 1D	SPP01D1	
Anatomy & Physiology 1A	ANP01B1	
Business Management 1B	BMA21B1	
Second year:		
Module name	**Module code**	**Prerequisite code**
Semester one		
Industrial Psychology 2A	IPS12A2	
Didactics and Exercise Science 2A	DES02A2	
Sport Management 2C	SPM02C2	
Business Management 2A	BMG02A2	BMA11A1
Choose one of the following elective modules		
Economics 1A	ECO01A1	
OR		
Accounting A	ACC0AA1	
Semester two		

Industrial Psychology 2B	IPS22B2	
Exercise Science 2B	EXS02B2	
Practical Aspects 2E	PRA02E2	
Leisure and Sport Tourism Studies 2D	LST02D2	
Business Management 2B	BMG02B2	BMA21B1
Choose one of the following elective modules		
Economics 1B	ECO01B1	
OR		
Accounting B	ACC0BB1	ACC0AA1
Third year		
Module name	**Module code**	**Prerequisite code**
Semester one		
Industrial Psychology 3A	IPS13A3	IPS12A2
Sport Psychology and Perceptual Motor Learning 3A	SPP03A3	
Sport Marketing and Finance 3C	SFM03C3	
Business Management 3A	BMA13A3	BMG02A2
Semester two		
Industrial Psychology 3B	IPS23B3	IPS22B2
Sport Sociology 3B	SPS03B3	
Work Integrated Learning 3E	WIL03E3	
Facility, Event and Human Resource Management in Sport 3D	FEH03D3	
Business Management 3B	BMG03B3	BMG02B2

HS11.5 BACHELOR OF HEALTH SCIENCES IN SPORT AND EXERCISE SCIENCES (B9SE1Q)

Duration programme
Full-time: Minimum 3 years and Maximum 5 years
NQF Level 7, 360 Credits

HS11.5.1 Purpose

The purpose of this qualification is to develop competent sport and exercise scientists to ensure that the identification, development and performance of athletes are carried out professionally, effectively with a scientific background and an ethical approach.

HS11.5.2 Outcomes

This will be ensured by applying the principles, knowledge and skills of sport and exercise science, which will be assessed against the set outcomes of the programme. These graduates will fill an important gap in the fitness industry and health promotion needs of the community, especially as statistics indicate the prevalence of non-communicable diseases faced in South Africa and will further play a pivotal role in coaching science, hence the enhancement of sport performance in South Africa.

HS11.5.3 Rules of access and admission requirements

A Senior Certificate, or an equivalent qualification at an equivalent standard as determined by a Status Committee.

A National Senior Certificate - APS Score with minimum requirements as shown below:
(Exclude Life Orientation when calculating APS)

Minimum APS	**Language of teaching and learning (English)**	**Mathematics**	**Mathematical Literacy**	**Life Sciences**
27 with Mathematics **28 with Mathematical Literacy**	**5**	**3**	**4**	**4**

HS11.5.4 Pass requirements

To be admitted to any module in the second academic year of study, and progress to the following year of study, students must have passed at least 60% of the modules in the previous year of studies.

HS11.5.5 Curriculum

First year		
Module name	**Module code**	**Prerequisite code**
Semester one		
Kinesiology 1A	KINSH1A	See Admission Requirements

Psychology 1A: Fundamentals	PSY1AA1	
Semester two		
Didactics and Coaching Science 1B	DICSH1B	
Health and Wellness Promotion 1B	HWPSH1B	
Psychology 1B: Fields of Psychology	PSY1BB1	
Sport and Exercise Practice 1B	SEPSH1B	
Year module		
Anatomy and Physiology 1	ANPSHY1	
Second year		
Module name	**Module code**	**Prerequisite code**
Semester one		
Nutrition 1A	NUT012A	
Principles of Coaching 2A	PRCSH2A	
Psychology 2A: Developmental Psychology	PSY2AA2	PSY1AA1 PSY1BB1
Applied Physiology 2A	APHSH2A	
Applied Sport and Exercise Psychology 2A	ASPSH2A	
Semester two		
Applied Physiology 2B	APHSH2B	
Health and Wellness Promotion 2B	HWPSW2B	
Psychology 2D: Positive Psychology	PSY2DB2	PSY2AA2
Third year		
Module name	**Module code**	**Prerequisite code**
Semester one		
Health and Wellness Promotion 3A	HWPSH3A	
Psychology 3A: Research Psychology	PSY3AA3	PSY2DB2
Talent Identification and Long-Term Athlete Development 3A	TIDSH3A	

Sport and Exercise Science 3A	SESSH3A	
Motor Learning 3A	MTLSH3A	
Semester two		
Sport and Exercise Science 3B	SESSH3B	
Sport and Exercise Science Practice 3B	SEPSH3B	
Notational Analysis and Exercise Programming 3B	NAPSH3B	
Psychology 3D: Psychopathology 3	PSY3DB3	PSY3AA3

HS11.6 BACHELOR OF BIOKINETICS (B9S05Q)

Duration of programme
Full-time: Minimum 4 years and Maximum 6 years
NQF Level 8, 480 Credits

HS11.6.1 Purpose

The qualification serves as the foundational and core knowledge base to register as a Biokineticist with the Health Professions Council of South Africa (HPCSA). The acquisition of professional abilities such as competence, skills, values and attitudes is fostered to enable the graduate to work as a health care professional. Competent and qualified Biokineticists are able to work in a variety of settings, including the public and private sector and in both urban and rural settings. Biokineticists primarily utilise their professional expertise in exercise testing and prescription, physical activity and health education to enhance/promote health in general, and to prevent dysfunction, restore and maintain an individual's functional ability, particularly in respect of orthopaedic injuries and chronic diseases/conditions.

The qualification will provide all economic sectors with a pool of well-qualified people whose competence will be internationally recognised and who will be able to perform specialised biokinetic health care services within any community setting.

The qualification is distinct from other qualifications within the health care profession as its main focus is the use of scientifically-based exercise prescription as a means of therapeutic intervention.

HS11.6.2 Outcome

Competent Biokineticists are able to:

1. Demonstrate knowledge, competence, skills and attitudes related to the structure and function of the human body systems.
2. Demonstrate knowledge, competence, skills and attitudes related to the psychosocial aspects of health and human performance.
3. Demonstrate knowledge, competence, skills and attitudes related to biomechanics.
4. Demonstrate knowledge, competence, skills and attitudes related to exercise physiology and clinical exercise physiology for rehabilitation.
5. Demonstrate specialised knowledge, competence, skills and attitudes related to human motor behaviour.
6. Demonstrate adequate knowledge, competence, skills and attitudes related to exercise

science.
7. Plan and implement effective and efficient therapeutic and recreation programmes.
8. Apply specialised knowledge, competence, skills and attitudes related to health promotion, health education and health related aspects of exercise and physical activity in individual, community and work context.
9. Apply relevant and appropriate knowledge, competence, skills and attitudes related to the prevention and rehabilitation of musco-skeletal injuries.
10. Apply relevant knowledge, competence, skills and attitudes in conducting scientific measurement and evaluation in biokinetic contexts.
11. Apply relevant knowledge, competence, skills and attitudes to the management of chronic diseases and disabilities.
12. Demonstrate competence of the research process and various methodologies as well as apply the relevant knowledge, skills and attitudes in conducting a research project on a biokinetics or related topic.
13. Manage a private or public biokinetics practice or health care facility.

HS11.6.3 Rules of access

A Senior Certificate with university exemption, or an equivalent qualification as determined by a Status Committee. Life Sciences, although not compulsory, is highly recommended for entrance into the degree.

A National Senior Certificate - APS Score with minimum requirements as shown below: Life Sciences, although not compulsory, is highly recommended for entrance into the degree.

A National Senior Certificate - APS Score with minimum requirements as shown below: (Exclude Life Orientation when calculating APS)

Minimum APS	**Language of teaching**	**Mathematics**	**Mathematical Literacy**	**Life Sciences**	**Physical Sciences**
28 with Mathematics 29 with Mathematical Literacy	**5**	**4**	**5**	**Not applicable**	**Not applicable**

Selection criteria

NB: All students accessing this qualification are required to register with the Health Professions Council of South Africa (HPCSA) for the duration of the study period.

In addition to the above, numbers for this programme will be capped and thus the applicants will be selected based on their APS scores.

HS11.6.4 Pass Requirements

To be promoted to the following year of study, students must have passed 100% of the modules in the previous year of study and to proceed with studies, students need to pass at least 60% of the modules in the previous year of study.

HS11.6.5 Curriculum

First year		
Module name	**Module code**	**Prerequisite code**
Semester one		
Nutrition 1	NUT01A1	
Practice Administration 1	PAM01A1	
Psychology 1A	PSY1AA1	
Semester two		
Biomechanics 1	BIM01B1	
Psychology 1B	PSY1BB1	
Year modules		
Anatomy and Physiology 1	AAP01Y1	
Biokinetics 1	BIK01Y1	
Second year		
Module name	**Module code**	**Prerequisite code**
Year modules		
Anatomy and Physiology 2	AAP01Y2	AAP01Y1
Biokinetics 2	BIK01Y2	BIK01Y1
Exercise Physiology	EXP01Y2	AAP01Y1
Perceptual Motor Behaviour	PMB01Y2	
Third year		
Module name	**Module code**	**Prerequisite code**
Semester one		
Exercise Science	EXS01A3	AAP01Y2
Research Methodology	RME01A3	
Semester two		
Clinical Exercise Science	CEX01B3	AAP01Y2
Year modules		
Biokinetics 3	BIK01Y3	BIK01Y2

Biokinetics Practice 1	BIO01Y3	BIK01Y2
Fourth year		
Module name	**Module code**	**Prerequisite code**
Semester one		
Practice Management and Entrepreneurship	PME01A1	
Year modules		
Biokinetics 4	BIK01Y4	BIK01Y3
Biokinetics Practice 2	BIO01Y4	BIO01Y3
Biokinetics Research: Mini Dissertation	BRD01Y4	RME01A3

HS11.7 BACHELOR OF COMMERCE HONOURS IN SPORT MANAGEMENT (H9S05Q)

Duration of programme
Full-time: Minimum 1 year and Maximum 2 years
Part-time: Minimum 1 year and Maximum 3 years
NQF Level 8, 120 Credits

HS11.7.1 Purpose

The student should develop applied competencies in the mastering, analysis, interpretation and application of management principles in the fitness and health, coaching, teaching and retailing sectors of the sport industry. The students should be able to reflect on their managerial decisions and applications to assess the effect thereof in the holistic context of sport management as practice.

HS11.7.2 Outcome

The student should be able to:
1. Resolve typical problems that exist in the management of sport environments.
2. Plan, implement and analyse research in a sport environment.
3. Apply different learning strategies in the study of sport and related competencies.
4. Apply strategic planning competencies.
5. Execute financial planning, control and analysis.
6. Manage the human resources of a sport environment/organization.
7. Plan, execute and evaluate a sport event(s).

HS11.7.3 Rules of access

A potential student should be in possession of a BCom (Sport Management) or any related qualification with a program specific minimum level of competency on the NQF Level 7 generating 360 credits (with an overall minimum average of 60% in the third year). Applications for admission are considered by a Departmental selection committee and a limited number is admitted every year. The limited number of students admitted is based on the Department's capacity to adequately expose the students to Work Integrated

Learning (WIL) and student to supervisor ratios.

HS11.7.4 Curriculum

Module name	Module code
Semester one	
Facility and Event Management	HMS8X12
Sport Marketing	HMS8X14
Sport Sociology	HMS8X17
Strategic Management in Sport	HMS8X18
Semester two	
Human Resource Management in Sport	HMS8X13
Sport Finance	HMS8X15
Year modules	
Research Methodology	HMS8X03
Sport Management Practice	HMS8X16

HS11.8 BACHELOR OF ARTS HONOURS IN SPORT SCIENCE (H9S03Q)

Duration of programme
Full-time: Minimum 1 year and Maximum 2 years
Part-time: Minimum 1 year and Maximum 3 years
NQF Level 8, 120 Credits

HS11.8.1 Purpose

The student should develop applied competence in the analysis, interpretation and application of sport science principles in the fitness and health, coaching and teaching sectors of the sport industry. The student should be able to take strategic decisions in the context of sport science and to assess any internal or external decision impacting on sport science. The student should further be able to reflect on his/her scientific decisions and applications to assess the effect thereof in the holistic context of sport science as practice.

HS11.8.2 Outcome

Students will develop the ability to internalize, reflect on and communicate related Sport Science principles in the fitness and health, coaching and teaching sectors of the Sport industry. The student should further be able to reflect on his/her scientific decisions and applications to assess the effect thereof in the holistic context of sport science as practice.

HS11.8.3 Rules of access

Access will be provided to a student who is in possession of a BCom (Sport Management) or sport related BA (Sport Science or Human Movement Studies) degree generating a minimum of 360 credits (with an overall minimum average of 60% in the third

year). Applications for admission are considered by a Departmental selection committee.

HS11.8.4 Curriculum

Module name	Module code
Semester one	
Sport Vision	HMS8X19
Semester two	
Sport Psychology	HMS8X10
Year modules	
Exercise Physiology	HMS8X08
Research Methodology	HMS8X03
Exercise Science	HMS8X09
Sport Science Practice	HMS8X11

HS11.9 MASTER OF PHILOSOPHY IN BIOKINETICS (M9S03Q)

Duration of programme
Full-time: Minimum 1 year and Maximum 2 years
Part-time: Minimum 1 year and Maximum 3 years
NQF Level 9, 180 Credits
Research dissertation 100%

HS11.9.1 Purpose

1. Perform independent scientific research with an original component.
2. Contribute to knowledge of and insight into Biokinetics as well as the specific discipline of research.
3. Display skills in related research methodologies and in proper formulation through a Master's dissertation.
4. Reflect upon decision-making, self-directedness and contributions to Biokinetics industry and practice.

HS11.9.2 Outcome

The student will be able to:

1. Identify, formulate, prepare and solve research problems.
2. Execute the research project at the appropriate level.
3. Collect, organize, check, evaluate and write a proper literature review organizing the appropriate information in an understandable and logic manner.
4. Acquire learning abilities in the research context including the assessment of scientific literature, execution of research methodologies including the gathering of data and evaluating the information obtained.
5. Make conclusions, suggestions and recommendations based on the data collected that are logical and justifiable.
6. Produce one article for peer-reviewed publication.

HS11.9.3 Rules of access

Access will be provided to the student who is in possession of an NQF Level 8 qualification in Biokinetics (with an average pass mark of at least 65%) according to the Faculty Rules and Regulations.

Selection criteria

Selection is based on academic merit, and an interview (if required).

HS11.9.4 Curriculum

A dissertation on an approved topic. Refer to the Academic Regulations booklet for applicable regulations on masters' qualifications.

Module name	**Module codes**
Semester one	
Dissertation: Biokinetics	HMS9X03
Semester two	
Dissertation: Biokinetics	HMS9X04

HS11.9.5 Closing date for applications

The closing date for applications is 31 October each year.

HS11.10 MASTER OF COMMERCE / MASTER OF PHILOSOPHY IN SPORT MANAGEMENT (M9S02Q) (M9S04Q)

Duration of programme
Full-time: Minimum 1 year and Maximum 2 years
Part-time: Minimum 1 year and Maximum 3 years
NQF Level 9, 180 Credits
Research dissertation 100%

HS11.10.1 Purpose

Through the masters' dissertation a qualifying student would show evidence of independent and original scientific work. The dissertation would constitute a decided contribution to knowledge of and insight into the subject discipline as well as the field of research. Qualifying students would also display competence in the application of related research methodology, and the proper written and/or oral communication of the research process and findings. The student should be able to reflect on his/her research decisions and applications to assess the effect thereof in the holistic context of the sport industry.

HS11.10.2 Outcome

The student will be able to:

1. Identify, formulate, prepare and solve research problems.
2. Execute the research project at the appropriate level.

3. Collect, organize, check, evaluate and write a proper literature review organizing the appropriate information in an understandable and logic manner.
4. Acquire learning abilities in the research context including the assessment of scientific literature, execution of research methodologies including the gathering of data and evaluating the information obtained.
5. Make conclusions, suggestions and recommendations based on the data collected that are logical and justifiable.
6. Produce one article for peer-reviewed publication.
7. Present the findings at a national forum.

HS11.10.3 Rules of access

Access will be provided to the student who is in possession of an Honours qualification in Sport Management (with an average pass mark of at least 65%). In the case of an interdisciplinary of interdisciplinary master's programmes (MPhil), additional admission requirements may be set by the two or more relevant interdisciplinary fields/departments/faculties, and contained in the relevant Faculty Rules and Regulations.

HS11.10.4 Curriculum

A dissertation on an approved topic. Refer to the Academic Regulations booklet for applicable regulations on masters' qualifications.

Module name	**Module code**
Semester one	
Dissertation: Sport Management (MCom) Dissertation: Sport Management (MPhil)	HMS9X01 HMS9X05
Semester two	
Dissertation: Sport Management (MCom) Dissertation: Sport Management (MPhil)	HMS9X02 HMS9X06

HS11.10.5 Closing date for applications

The closing date for applications is 31 October each year.

HS11.11 MASTER OF PHILOSOPHY IN SPORT MANAGEMENT (M9S05Q)

Duration of programme
Full-time: Minimum 1 year and Maximum 2 years
Part-time: Minimum 1 year and Maximum 3 years
NQF Level 9, 180 Credits
Course work 50% and minor dissertation 50%

HS11.11.1 Purpose

The purpose of this qualification is to develop the intellectual and practical competencies of the qualifying student and to facilitate her/his values to promote sport for development globally. Qualifying students will also display competence in the application of related research methodology and the proper written and/or oral communication of the research process and findings.

HS11.11.2 Outcome

These students will embark on resolving typical challenges and issues in the field of sports management, sport governance and sport for development. They will develop the ability to internalize, reflect on and communicate related principles in this field.

HS11.11.3 Rules of access

Access will be provided to a student who is in possession of an Honours qualification or an equivalent thereof, (NQF level 7 and an average of 65%) according to the Faculty rules and regulations.

HS11.11.4 Curriculum

Course work is 50% and minor dissertation is 50%

Module name	**Module code**
Semester one	
Minor Dissertation: Sport Management	HMS9XC1
Sport Management	HMS9XC3
Semester two	
Minor Dissertation: Sport Management	HMS9XC2
Sport Sociology	HMS9XC4

HS11.11.5 Closing date for applications

The closing date for applications is 31 October each year.

HS11.12 MASTER OF PHILOSOPHY IN SPORT SCIENCE (M9S06Q)

Duration of programme
Full-time: Minimum 1 year and Maximum 2 years
Part-time: Minimum 1 year and Maximum 3 years
NQF Level 9, 180 Credits
Research dissertation 100%

HS11.12.1 Purpose

Through the master's dissertation in which the qualification finally culminates, a qualifying student would show evidence of independent and original scientific work. The dissertation would constitute a decided contribution to knowledge of and insight into the subject discipline as well as the field of research. Qualifying students would also display competence in the application of related research methodology, and the proper written and/or oral communication of the research process and findings. The student should be able to reflect on his/her research decisions and applications to assess the effect thereof in the holistic context of the sport science industry.

HS11.12.2 Outcome

The student will be able to:

1. Identify, formulate, prepare and solve research problems.
2. Execute the research project at the appropriate level.
3. Collect, organize, check, evaluate and write a proper literature review organizing the appropriate information in an understandable and logic manner.
4. Acquire learning abilities in the research context including the assessment of scientific literature, execution of research methodologies including the gathering of data and evaluating the information obtained.
5. Make conclusions, suggestions and recommendations based on the data collected that are logical and justifiable.
6. Produce one article for peer-reviewed publication.
7. Present the findings at a national forum.

HS11.12.3 Rules of access

Access will be provided to the student who is in possession of an honours qualification in Sport Science (with an average pass mark of at least 65%) according to the Faculty Rules and Regulations.

HS11.12.4 Curriculum

A dissertation on an approved topic. Refer to the Academic Regulations booklet for applicable regulations on masters' qualifications.

Module name	**Module code**
Semester one	
Dissertation: Sport Science	HMS9X07
Semester two	
Dissertation: Sport Science	HMS9X08

HS11.12.5 Closing date for applications

The closing date for applications is 31 October each year.

HS11.13 DOCTOR OF PHILOSOPHY IN HEALTH SCIENCES: BIOKINETICS (P9H12Q)

Duration of programme
Full-time: Minimum 2 years and Maximum 4 years
Part-time: Minimum 2 years and Maximum 5 years
NQF Level 10, 360 Credits
Research thesis 100%

HS11.13.1 Purpose

The primary purpose of this qualification is to provide qualifying students with the ability to:

1. Perform independent original and creative scientific research.
2. Contribute significant knowledge to and insight into Biokinetics as well as the specific discipline of research.
3. Display skills in related research methodologies and in proper formulation through a doctoral thesis.
4. Reflect upon decision-making, self-directedness and contributions to the Biokinetics profession.

HS11.13.2 Outcome

The student will be able to:

1. Identify and/or create an original research problem.
2. Design, construct and execute research at this level.
3. Collect appropriate data in a precise and logical manner and evaluate and judge the information obtained.
4. Acquire learning abilities in the research context including the assessment of scientific literature, construction of a research project, execution of the project, analysis of the data and producing sound scientific arguments.
5. Make relevant conclusions based on the data collected that are logical and justified.
6. Produce two articles for peer-reviewed publication.

HS11.13.3 Rules of access

Access will be provided to the student who is in possession of a masters' qualification in Biokinetics (with an average pass mark of at least 65%) with a programme specific minimum level of competency on NQF Level 9, generating a minimum of 180 credits.

Selection criteria

Selection is based on academic merit, and an interview (if required).

HS11.13.4 Pass requirements

Refer to the Academic Regulations of the University of Johannesburg.

HS11.13.5 Curriculum

A research thesis. The research component is 100%.

Module name	Module code
Semester one	
Research Project and Thesis: Health Sciences (Biokinetics)	RPB10X1
Semester two	
Research Project and Thesis: Health Sciences (Biokinetics)	RPB10X2

HS11.13.6 Closing date for applications:

The closing date for applications is 31 October each year.

HS11.14 DOCTOR OF PHILOSOPHY IN HEALTH SCIENCES: SPORT SCIENCE (P9H11Q)

Duration of programme
Full-time: Minimum 2 years and Maximum 4 years
Part-time: Minimum 2 years and Maximum 5 years
NQF Level 10, 360 Credits
Research thesis 100%

HS11.14.1 Purpose

Through the doctoral thesis, in which the qualification finally culminates, a qualifying student would show evidence of independent and original scientific work. The thesis would constitute a decided contribution to knowledge of and insight into the subject discipline as well as the field of research. Qualifying students would display applied competence in research methodology, and the proper written and/or oral communication in the research process and findings. The student should be able to reflect on his/her research decisions and applications to assess the effect thereof in the holistic context of research in the sport industry.

HS11.14.2 Outcome

The student will be able to:

1. Identify, formulate, prepare and solve research problems.
2. Execute the research project at the appropriate level.
3. Collect, organize, check, evaluate and write a proper literature review organizing the appropriate information in an understandable and logic manner.
4. Acquire learning abilities in the research context including the assessment of scientific literature, execution of research methodologies including the gathering of data and evaluating the information obtained.
5. Make conclusions, suggestions and recommendations based on the data collected that are logical and justifiable.
6. Produce two articles for peer-reviewed publication.

HS11.14.3 Rules of access

Access will be provided to the student who is in possession of a masters' qualification

in Sport Science (with an average pass mark of at least 65%) with a programme specific minimum level of competency on NQF Level 9, generating a minimum of 180 credits.

Selection criteria

Selection is based on academic merit, and an interview (if required).

HS11.14.4 Pass requirements

Refer to the Academic Regulations of the University of Johannesburg.

HS11.14.5 Curriculum

A research thesis. The research component is 100%.

Module name	Module code
Semester one	
Research Project and Thesis: Health Sciences (Sport Science)	RSS10X1
Semester two	
Research Project and Thesis: Health Sciences (Sport Science)	RSS10X2

HS11.14.6 Closing date for applications

The closing date for applications is 31 October each year.

HS12.0 MODULES PRESENTED BY THE FACULTY

HS12.1 DEPARTMENT OF BIOMEDICAL SCIENCES

BACHELOR OF HEALTH SCIENCES IN MEDICAL LABORATORY SCIENCES (B9B01Q)

Name	Code	SM Weight	EM Weight	Level	Credits	Content
Cell Biology 1	CLBHBB1	100%	0%	6	12	Chemistry of life, water, ph, buffers and molecular interactions Enzymes, vitamins and essential metals Metabolism Nucleotides, nucleic acids and genetic information – replication, Transcription and translation Amino acids and proteins, protein metabolism and the urea cycle Carbohydrates, glycolysis, citric acid cycle, oxidative Phosphorylation and the electron transport chain Lipids and lipid metabolism
Chemistry 1A	CEMH1A1	50%	50%	5	12	**Science module** The primary purpose of this module is to develop students understanding of general, inorganic and organic chemistry, which will serve as a basis for further study in medical laboratory sciences. The module aims to develop students understanding and skills in practical work associated with general, inorganic and organic chemistry.
Clinical Chemistry 2A	CLCHBA2	100%	0%	6	12	Instrumentation Quality Assurance and Quality Control Electrolytes Acid Base Disturbances Renal Functions Proteins
Clinical Chemistry 2B	CLCHBB2	100%	0%	6	12	Diagnostic Enzymology Liver Function testing Immunochemical techniques Basic Endocrinology Introduction to Pharmacology Pharmacokinetics Basic Toxicology and drugs of abuse.
Clinical Chemistry 3	CLCHBA3	100%	0%	7	12	Carbohydrate Metabolism Lipid and Lipoproteins Essential Minerals Body Fluid analysis Heart Failure medication

						Antihypertensive Medication Lipid Lowering Agents Antibiotics Anticonvulsants
Clinical Chemistry 4	CLCHBY4	100%	0%	8	120	This module will enable student to integrate information learned in their initial 3 years of study with practice in order to make a final diagnosis in Clinical Chemistry.
Clinical Pathology 4	CNPHBY4	100%	0%	8	120	This module will enable student to integrate information learned in their initial 3 years of study with practice in order to make a final diagnosis in Clinical Pathology.
Communication for Medical Laboratory Sciences 1A	CMLSBA1	100%	0%	5	4	This module will enable students to understand the importance of effective communication and information flow or transfer throughout the healthcare setting.
Computing Literacy	CSL01A1	50%	50%	5	6	**CBE module** The purpose of this module is to introduce the students to basic IT (Information Technology) terms, Microsoft Word and Microsoft PowerPoint skills, including the basic components of a computer. Students will be able to use the Word Processing application to solve business problems and to use Presentation software. Ms Excel to create spreadsheets as well as Ms Access to create databases for the companies
Cytogenetics 2	CTGHBB2	100%	0%	6	12	This module will introduce the student to the study of chromosomal structure, their role in heredity, location and function in cells. It includes the study of chromosome number and appearance (karyotyping), the physical location of genes on chromosomes, and chromosomal behaviour in processes such as cell division.
Cytogenetics 4	CYTGBY4	100%	0%	8	120	This module will enable student to integrate information learned in their initial 3 years of study with practice in order to make a final diagnosis in Cytogenetics.
Cytopathology 2	CTPHBB2	100%	0%	6	12	Biological behaviour of cells and tissues Systematic approach to the evaluation of cytology smears Histology and cytology of cyclic hormonal influences on the FGT Histology and cytology of the normal FGT Cells and agents of infection found

						on gynaecological smears Inflammatory, degenerative, regenerative and proliferative changes of the FGT Histopathology and cytopathology of pre-malignant and related conditions (intra epithelial lesions) and malignances of the FGT Specialised techniques with reference to histopathological and cytopathological diagnosis of the FGT
Cytopathology 3	CTPHBA3	100%	0%	7	12	Normal cellular content, the inflammatory, degenerative and regenerative changes of the respiratory tract and oral cavity Agents of infection of the respiratory tract and oral cavity Normal cellular content, inflammatory, degenerative and regenerative changes of the urinary tract Normal cellular content, inflammatory, degenerative and regenerative changes of the serous cavities Fine needle aspiration cytology (FNA) Normal cellular content and pathology of the central nervous system Normal cellular content and pathology of the gastrointestinal tract Cellular reactions to therapy & Cytogenetics
Cytopathology 4	CTPHBY4	100%	0%	8	120	This module will enable student to integrate information learned in their initial 3 years of study with practice in order to make a final diagnosis in Cytopathology.
Forensic Sciences 4	FRSHBY4	100%	0%	8	120	This module will enable student to integrate information learned in their initial 3 years of study with practice in order to make a final diagnosis in Forensic Science.
Haematology 2A	HAEHBA2	100%	0%	6	12	Introduction to Haematology Haematopoiesis Normal Erythrocyte Physiology Acute and Chronic Blood Loss Anaemias Aplastic and Related Anaemia Hypochromic Anaemias and Disorders of Iron Metabolism Megaloblastic Anaemias Haemolytic Anaemias Haemoglobinopathies

Haematology 2B	HAEHBB2	100%	0%	6	12	Normal Leukocyte Physiology: Granulocytes and Monocytic Series Normal Leukocyte Physiology: Lymphocytes and Plasma Cells Non Malignant Leucocytic Disorders Non Malignant Lymphocytic Disorders Acute and Chronic Leukaemias Chronic Myeloproliferative Disorders Myelodysplastic Syndromes
Haematology 3	HAEHBA3	100%	0%	7	12	Disorders of Haemostasis and Thrombosis Platelets Haemostasis Blood Coagulation
Haematology 4	HAEHBY4	100%	0%	8	120	This module will enable student to integrate information learned in their initial 3 years of study with practice in order to make a final diagnosis in Haematology.
Human Anatomy, Physiology and Disease 1	HAPDBY1	100%	0%	6	30	This module will enable students to gain understanding of the structure of the human body and the relationship to the function of the different organ systems. This module prepares the student for all the specialist subjects from second to fourth year.
Histopathology 2	HTPHBA2	100%	0%	6	12	Orientation regarding essential terminology, specimen types, laboratory layout/operation and methods of specimen examination Familiarise the student with laboratory administration, ethics, HPCSA Rules and Regulations, safety and the role of the Medical Technologist in Cellular Pathology Instrumentation for Histology, fixation of cells and tissue, decalcification and tissue processing Tissue sectioning, staining, routine and specialised, and mounting Artefacts and pigments and museum technology Microscopy Instrumentation for Cytology and preparation of smears Cytogenetic studies, terminology and applications Cytogenetic techniques
Histopathology 4	HTPHBY4	100%	0%	8	120	This module will enable student to integrate information learned in their initial 3 years of study with practice in order to make a final diagnosis in Histopathology.

Immunohaematology 2	IMHHBA2	100%	0%	6	12	General aspects of Blood Transfusion Fundamentals of the Blood Grouping Systems The other blood group systems other than ABO and Rhesus Types of Transfusion Reactions
Immunohaematology 4	IMHHBY4	100%	0%	8	120	This module will enable student to integrate information learned in their initial 3 years of study with practice in order to make a final diagnosis in Immunohaematology.
Immunology 1	IMMHBB1	100%	0%	6	12	Innate and Acquired Immunity Nature of Antigens and Antibodies Lymphatic Organs Complement Major Histocompatibility Complex Immune Response Hypersensitivity Immunological Tolerance Cell-Mediated Immunity Auto-Immune Diseases Immune Deficiency Disorders
Immunology 4	IMMHBY4	100%	0%	8	120	This module will enable student to integrate information learned in their initial 3 years of study with practice in order to make a final diagnosis in Immunology.
Integrative Medical Laboratory Sciences IIIA (Clinical Practice Theory)	IMLHBA3	100%	0%	7	9	Integument/Dermatology Muscle Connective tissue (including bone) Endocrine Reproductive system (Female and Male) Respiratory and Cardiac System Gastrointestinal Tract and ancillary organs Urinary system Infectious diseases Central Nervous System Ocular Nervous System Peripheral Nervous System Oncology
Integrative Medical Laboratory Sciences IIIB (Clinical Practice)	IMLHBB3	100%	0%	7	60	With reference to the specific discipline: All routine laboratory investigations Clinical applications and interpretation of results Laboratory safety Ethics Work behaviour code Quality control Quality assurance Basic laboratory administration and management
Introduction to Laboratory Sciences 1A	IMLSBA1	100%	0%	5	8	The role of the Medical Laboratory Scientist Computer Skills

						Communication for the Medical Laboratory Scientist Use of the Library/literature searches/scientific writing skills HPCSA/SMLTSA Glassware and plastic ware Sterilisation in the laboratory
Introduction to laboratory Sciences 1B	IMLSBB1	100%	0%	5	18	Safety – biodiversity/laboratory and workplace safety Medical Terminology Laboratory Quality Assurance and Control/Collection of blood specimens Safety pertaining to handling of specimens, PPE, needles and sharps Medical laboratory calculations Ethics and Medical Law Safety Quality Assurance
Laboratory Management 4	LBMHBA4	100%	0%	8	5	Market analysis Legalities Product mix Finances (budget) Finances (Income) Marketing SWOT Analysis Personnel recruitment Selection of personnel Motivation
Medical Microbiology	MDMHBA2	100%	0%	6	12	Introduction to Medical Microbiology Safety precautions in the Microbiology Laboratory Morphology Bacterial Genetics Nutrition and Environment of Micro-organisms The Control of Micro-organisms Antibiosis Bacterial Pathology Immunology
Medical Microbiology 2B	MDMHBB2	100%	0%	6	12	The collection, forwarding and routine examination of clinical bacteriological specimens Tests for the identification of bacteria The bacteria which may be isolated from humans Pathogenesis, epidemiology and control of micro-organisms The microbiological investigation of water, milk and food Serology
Medical Microbiology 3 (Virology, Mycology,	MDMHBA3	100%	0%	7	12	Medical mycology Medical parasitology Medical virology

Parasitology)						
Medical Microbiology 4	MDMHBY4	100%	0%	8	120	This module will enable student to integrate information learned in their initial 3 years of study with practice in order to make a final diagnosis in Medical Microbiology.
Pharmacology 4	PHMHBY4	100%	0%	8	120	This module will enable student to integrate information learned in their initial 3 years of study with practice in order to make a final diagnosis in Pharmacology.
Physics 1B	PHYH1B1	50%	50%	5	12	**Science module** This module will enable students to relate basic concepts and principles of physics, to the proper use and understanding of laboratory instrumentation and to practical applications in laboratory techniques.
Research Methods 3	RSMHBB3	100%	0%	7	8	The module aims at encouraging the student to conduct research by giving them the required knowledge of specific approaches and methods (qualitative and quantitative) and skills employed in applied research.
Research Project IV (Mini Dissertation in the field of Specialisation)	RSPHBY4	100%	0%	8	12	This module will allow the student to apply the research skills into a research project • Planning a Project • Literature Review • Research Design • Data Collection and Ethics Topics for the research project may be chosen from within the field of Medical Laboratory Science
Statistical Methods 1A	SMT01A1	50%	50%	5	8	**Science module** This module will provide the student with a perspective of the basics of probability theory and to illustrate its application to the solution of practical problems. The student will also be given a basic perspective of a variety of discrete probability distributions and will be able to apply them to solve problems in various fields of application.

HS12.2 DEPARTMENT OF CHIROPRACTIC

BACHELOR OF HEALTH SCIENCES IN CHIROPRACTIC (B9C01Q)

Name	Code	SM Weight	EM Weight	Level	Credits	Content
Anatomy 2	ANTCHY2	100%	0%	7	30	This module will enable students to gain the relevant anatomical background applicable to Chiropractic in the following topics: Gross anatomy of the regions of the human body comprising the following units: surface anatomy and landmarks, skeletal anatomy, muscular and other soft tissue anatomy, cardiovascular anatomy, neural anatomy. Embryology of the human body comprising the following units: Early embryology and systemic/regional embryology (Head and Neck, Cardiovascular system, Gastrointestinal System, Urinary System, Reproductive System). Systemic Histology of the human body comprising the following units: Basic tissues, Respiratory system, Cardiovascular system, Gastrointestinal System, Urinary System, Reproductive System, Endocrine System, Lymphatic System.
Anatomy and Physiology 1	ANPCHY1	100%	0%	5	35	This module will enable students to gain the relevant anatomical background applicable to Chiropractic in the following topics: Osteology, Anatomical terminology, Respiratory system, Cardiovascular system, Digestive system, Lymphatic system, Muscular system, Endocrine system, Nervous system, Special senses, Urinary system, Female reproductive system, Male reproductive system.
Biodiversity	BIODIY1	100%	0%	5	20	This module will enable students to gain the relevant introductory biological background applicable to Chiropractic in the following topics: Chemistry, The cell and cellular metabolism, Mitosis and meiosis, Genetics, Evolution, The five kingdoms, Ecology.
Chemistry1	CETCHY1	50%	50%	5	20	**Science Module** The purpose of this module is to

						develop the basic knowledge and understanding of chemical principles and techniques of general and applied chemistry as required for further modules.
Chiropractic Principles and Practice 1	CPPCHY1	100%	0%	5	20	Introduction to the basic concepts of science, scientific enquiry; the history of the development of Chiropractic; Modules that will be covered as part of this subject: History of Chiropractic; Professional Bodies in Chiropractic; Chiropractic Techniques; Chiropractic Hypothesis; Role of Chiropractic in treating disease; The Role of Chiropractic in Society.
Chiropractic Principles and Practice 2	CPPCHY2	100%	0%	7	20	This module introduces basic chiropractic principles including aspects relating to motion palpation, evidence based chiropractic and the biopsychosocial model, and evidence relating to safety and effectiveness of techniques in the profession.
Chiropractic Principles and Practice 3	CPPCHY3	100%	0%	7	25	This module develops the student's ability to perform basic spinal manipulative techniques, with a focus on biomechanics of manipulation and evidence based approaches.
Chiropractic Principles and Practice 4	CPPCHY4	100%	0%	8	25	This module presents chiropractic spinal manipulative techniques, and contra-indications and the appropriate assessments techniques at an advanced level for each technique.
Clinical and Applied Biomechanics 4	CABCHA4	100%	0%	8	10	This module will present the physical properties and mechanical behaviour of body tissues, including mechanisms of injury and pathological processes and the necessary spinal biomechanical knowledge required in clinical chiropractic practice, in specific relation to spinal manipulation and rehabilitation.
Clinical Chiropractic 4	CLCCHY4	100%	0%	8	25	This module presents the basis from which to manage all patients that you will treat. This course provides a tangible link between theoretical knowledge and practice. It will present knowledge which will enable a determination of which cases may be treated by Chiropractors and which will have to be referred out to other health

						care professionals.
Clinical Diagnostics 3	CLDCHY3	100%	0%	7	20	The Patient Interview, Analysis of Symptoms, Mental Status Examination. Approach to Physical Examination; Examination of the Head and Neck, Examination of Thorax, Examination of the Abdomen, Examination of the Uro-genital System, Examination of the Peripheral Vascular System, Examination of the Musculoskeletal System, Examination of the Nervous System, Special Examinations.
Clinical Practice 4	CPRCHY4	100%	0%	8	25	This module introduces Good Medical Practice and Clinical Practice relating to: • Haematology • Cardiovascular • Peripheral Vascular • Respiratory • Neurology • Musculoskeletal • Dermatology • Mental • Endocrinology • Gastro-intestinal • Genito-urinary • Paediatrics • Infectious diseases • Head and neck (Ear, Nose, Throat)
Clinical Psychology	CLPCHY3	100%	0%	7	15	This module presents psychology in terms of the biopsychosocial aspects of healthcare. Assessment of abnormal behaviour, Anxiety disorders, Somatoform disorders, Dissociative disorders, Personality disorders, Substance abuse disorders, Mood disorders and suicide, Schizophrenia, Cognitive disorders, Childhood & adolescent disorders, Mental retardation, Psychosomatic disorders.
Human Biochemistry and Disease 1	HBDCHY2	100%	0%	7	25	This module aims to familiarize the student with the biochemistry as it relates to human processes and their causal link to diseases.
Medical Microbiology	MDMCHA2	100%	0%	6	10	History of microbiology; Cell membrane structure and characteristics; Interactions between micro-organisms and their human hosts; Serological tests; Characteristic, pathogenesis, transmission and effects of selected diseases; Characteristics

						and classification of Yeasts; Characteristics and classification of Moulds; Protozoa, parasites and their diseases; Rickettsia, Chlamydia and Mycoplasma; Viruses; Control of micro-organisms; Public health microbiology.
Myofascial and Auxiliary Therapies 3	MATCHY3	100%	0%	7	25	This module is presented to equip the students with the knowledge and skill to perform a number of ancillary techniques, which may be used to facilitate the relief of pain in conjunction with the chiropractic manipulation.
Myofascial and Auxiliary Therapies 4	MATCHB4	100%	0%	8	10	This module will present common myofascial trigger point regions, with emphasis on dry needling techniques of spinal musculature.
Pathology 3	PATCHY3	100%	0%	7	20	Haematology (Red Blood Cell and Bleeding disorders, Diseases of White Blood Cells, Lymph Nodes, Spleen and Thymus); Cardiovascular System (Blood Vessels and Heart); The Respiratory System; The Central and Peripheral Nervous System; The Musculoskeletal System; The Gastrointestinal System; The Endocrine System; The Genitourinary System; Head, Neck and Eye.
Personal and Professional Development 1	PPDCHY1	100%	0%	5	10	This module introduces life skill relating to academic progress, skills and communication. Introduction to an African language will form part of this module.
Personal and Professional Development 2	PPDCHY2	100%	0%	7	10	This module introduces concepts relating to personal development, evidence based practice, professional communication, referencing formats.
Pharmacology	PHMCHA3	100%	0%	6	10	• Drugs Affecting the Autonomic Nervous System • Pain and inflammation • Drugs Affecting the Immune System • Drugs Affecting Cardiovascular System • Drugs Affecting Central Nervous System • Drugs Affecting the Endocrine System • Respiratory System • Gastro-intestinal System • Chemotherapeutic Drugs

Physics of Health Sciences 1	PHYCHA1	50%	50%	5	10	**Science Module** The purpose of this module is to develop the basic knowledge and understanding of physics.
Physiology 2	PHYCHY2	100%	0%	6	10	This module will enable students to gain the relevant physiological background applicable to Chiropractic in the following topics: Principles of covering, support and movement. Regulation and integration systems of the human body; Maintenance of the human body; Continuity of life.
Radiology	RADCHB3	100%	0%	7	10	This module presents normal anatomy with basic relevant abnormal anatomy of radiographs.
Radiology 4	RADCHY4	100%	0%	8	20	This module will present abnormal x-rays of spinal conditions, and methods utilized when taking radiographs within a practice environment.
Research Methodology 4	REMCHA4	100%	0%	8	5	This module presents the following components: • Research Concepts • Research Ethics and Integrity • The Scientific Method • Quantitative Research Methods • Qualitative Research Methods • Data Analysis and Theory in Qualitative and Quantitative Research • Review of CM Research Articles • Introduction to Mixed Methods Research
Research Project 4	REPCHB4	100%	0%	8	5	This module is designed to allow for demonstration of basic research skills in terms of proposal development and research design.
Sociology of Health and Health Care	SOHCHB1	100%	0%	6	10	This module introduces the fundamentals of health and healthcare to provide a broad theoretical foundation for further studies related to complementary health care, including the social determinants of health.

MASTER OF HEALTH SCIENCES IN CHIROPRACTIC (M9C01Q)

Name	Code	SM Weight	EM Weight	Level	Credits	Content
Chiropractic Clinical Practice 5A	CHP9XA1	100%	0%	9	9	On completion of the WIL component the student should be able to: • Demonstrate competency in specialised chiropractic skills in clinical assessment, diagnosis, treatment and management of conditions and/or pathology affecting the body under the supervision of a qualified chiropractic clinician. • Demonstrate the ability, under supervision to recognise and appraise systemic conditions and the signs and symptoms that impact on the patient or in a simulated scenario for the purpose of treatment, referral and subsequent management. • Demonstrate under supervision practical application of the principles, proven techniques and specialised skills in the promotion of health, the prevention and rehabilitation. • Analyse clinical data and case studies by integrating theory and practical knowledge within the fields of chiropractic. • Analyse differential diagnoses and implement management protocols and prevention plans in terms of scope of practice.
Chiropractic Clinical Practice 5B	CHP9XB2	100%	0%	9	9	On completion of the WIL component the student should be able to: • Demonstrate competency in specialised chiropractic skills in clinical assessment, diagnosis, treatment and management of conditions and/or pathology affecting the body under the supervision of a qualified

						chiropractic clinician. • Demonstrate the ability, under supervision to recognise and appraise systemic conditions and the signs and symptoms that impact on the patient or in a simulated scenario for the purpose of treatment, referral and subsequent management. • Demonstrate under supervision practical application of the principles, proven techniques and specialised skills in the promotion of health, the prevention and rehabilitation. • Analyse clinical data and case studies by integrating theory and practical knowledge within the fields of chiropractic. • Analyse differential diagnoses and implement management protocols and prevention plans in terms of scope of practice.
Chiropractic Principles and Practice 5	CPP9XY1	100%	0%	9	9	On completion of this module the student should be able to: • Understand and apply the process and procedure to adequately perform the functions as in the UJ day clinic. • Have a clear understanding of the professional associations and councils, and how they are interrelated. • Communicate effectively with professionals of other disciplines, chiropractic, and patients. • Have basic knowledge of paediatric conditions, and chiropractic treatment thereof. • Have basic knowledge of geriatric conditions, and chiropractic treatment thereof. • Assess and treat joint dysfunction in extremity joints. • Review and write a report

						on abnormal findings of radiographs.
Clinical and Applied Biomechanics 5	CAB9XA1	100%	0%	9	9	At the end of the module the student should be able to: • Describe and analyse normal and abnormal biomechanics of peripheral joint. • Explain the principles of proprioception and core stability and develop a programme specifically related to different conditions • Analyse posture and gait, and relate this to specific conditions
Clinical Chiropractic 5	CHC9XY1	100%	0%	9	9	To equip the 5th year chiropractic students with the knowledge and skill to assess, diagnose and treat the extremity joints of the body. To provide the student with the knowledge to know when and how to treat extremity injuries and pathologies. To provide the student with a forum to develop a critical thought process and approach to assessment and treatment of neuromusculoskeletal disorders. Modules covered: • Principles and Concepts • Shoulder • Elbow • Wrist and Hand • Hip • Knee • Lower limb, ankle and foot
Myofascial and Auxiliary Therapies 5	MAT9XA1	100%	0%	9	9	On completion of this module the student will be able to: • Describe the anatomy, innervation and function of the muscles relevant to this course. • Locate the trigger points in these muscles. • Describe and draw the referred pain patterns for these muscles. • Identify the symptoms exhibited by specific muscles due to the presence of myofascial trigger points. • Diagnose specific myofacial conditions and give possible differential

						diagnoses. • Identify activating and perpetuating factors for each muscle. • Examine a patient and locate trigger points. • Treat myofascial trigger points using: a) Ice and stretch techniques b) Dry needling techniques c) Post isometric relaxation d) Passive stretching • Provide corrective actions and advice to the patient. • Prescribe home based exercises to stretch and strengthen the involved muscles.
Practice Management and Jurisprudence	PMJ9X01	50%	50%		16	**CBE Module** The purpose of this module is to provide the student with the advanced skills required in the establishment of a phytotherapy private practice, and to expand on their knowledge pertaining to legal regulation of health professions and specifically phytotherapy practice.
Research Project and Dissertation 5A	RPD9XA1	100%	0%	9	9	On completion to this module, the student will be required to submit a minor dissertation.
Research Project and Dissertation 5B	RPD9XB2	100%	0%	9	9	On completion to this module, the student will be required to submit a minor dissertation.
Research Project and Dissertation 5C	RPD9XC2	100%	0%	9	9	On completion to this module, the student will be required to submit a minor dissertation.

HS12.3 DEPARTMENT OF COMPLEMENTARY MEDICINE

BACHELOR OF HEALTH SCIENCES IN COMPLEMENTARY MEDICINE (B9CM1Q)

Name	Code	SM Weight	EM Weight	Level	Credits	Content
Anatomy 2	ANTCHY2	100%	0%	7	30	The purpose of this module is to enable the student to develop an extensive understanding of the gross anatomy of the human body and basic histology as it applies to the various systems.
Anatomy and Physiology 1	ANPCHY1	100%	0%	5	35	The purpose of this module is to establish a sound introduction to anatomy and physiology, including human cells and tissue, surface anatomy and systems within the human body.
Applied Homeopathic Materia Medica	AHMCMY4	100%	0%	8	25	The purpose of this module is to provide the student with the theoretical and research based knowledge related to homeopathic medicines in order to develop strategies and formulations to treat and manage various health conditions.
Applied Nutritional Medicine	ANMCMY4	100%	0%	8	10	The purpose of this module is to integrate theoretical nutritional knowledge with evidence-based practice in the management and treatment of particular health conditions.
Applied Phytotherapy 1	APTCMY4	100%	0%	8	25	The purpose of this module is to provide the student with the theoretical and research based knowledge related to herbal medicines in order to develop strategies and formulations to treat and manage various health conditions.
Basic Life Support	BLSCMA3	100%	0%	5	4	The purpose of this module is to enable the student to focus on the assessment of the emergency situation and provision of basic life support and basic first aid in order to stabilise patients prior to transfer to the emergency services or other suitable person or entity; and identify and treat common ailments and injuries within the relevant scope.
Biodiversity	BIODIY1	100%	0%	5	20	The purpose of this module is to gain the relevant introductory biological background in cell and cellular metabolism; mitosis and

						meiosis; genetics; evolution, ecology and the five kingdoms, and enable the student to develop an elementary but critical understanding of the botany for complementary medicine as it pertains to the kingdoms, structure and habitats of the plants.
Chemistry 1	CETCHY1	50%	50%	5	20	**Science module** The purpose of this module is to develop the basic knowledge and understanding of chemical principles and techniques of general and applied chemistry as required for further modules in the field of complementary medicine.
Clinical Diagnostics 3	CLDCHY3	100%	0%	7	20	The purpose of this module is to provide the student with the relevant knowledge necessary for case taking, evaluation and management of a patient in a clinical setting.
Clinical Practice 1	CPRCMY4	100%	0%	8	30	Successful completion of this module will enable a student to competently assess a range of health problems presented in clinical practice and use a wide range of solutions for their recognition, investigation and diagnosis. Students will also be able to begin to identify the correct treatment / management approach of the diagnosed condition.
Clinical Psychology	CLPCHY3	100%	0%	7	15	The purpose of this module is to introduce the student to the various theoretical models, psychological disorders and practice & ethics of clinical psychology.
Complementary Medicine Practices 1	COPCMY1	100%	0%	5	35	The purpose of this module is to enable the student to develop an elementary but critical understanding of the various complementary medicine disciplines as well as traditional medicine practices in South Africa, with particular emphasis on homeopathy, phytotherapy and acupuncture.
Complementary Medicine Practices 2	COPCMY2	100%	0%	6	40	The purpose of the module is to enable the student to develop an in-depth understanding and expansive knowledge base of complementary medicine practices, relating to homeopathy, phytotherapy and acupuncture, and their respective approaches to treatment.

Complementary Medicine Practices 3	COPCMY3	100%	0%	7	10	The purpose of this module is to enable the student to develop a coherent and critical understanding of complementary practices, in particular acupuncture therapeutics, in order to develop treatment protocols in the management of common conditions/patients.
Compounding and Dispensing Complementary Medicine	CDDCMB4	100%	0%	8	10	The purpose of this module is to provide the student with an in-depth understanding and practical application of the compounding and dispensing of complementary medicines in a practice.
Good Pharmacy Practice	GPPCMA4	100%	0%	8	10	The purpose of this module is to provide the student with an understanding of the requirements for good pharmacy practice as relevant to their scope.
Homeopathic Materia Medica 1	HMMCMY3	100%	0%	7	15	The purpose of this module is to provide the student with a sound foundation of homeopathic philosophy, homeopharmaceutics, Materia Medica and case taking.
Homeopathic Materia Medica 2	HMMCMY4	100%	0%	8	20	The purpose of this module is to provide the student with an in-depth understanding and systematic knowledge base of the Materia Medica remedies used in a homeopathic practice.
Human Biochemistry and Disease 1	HBDCMY2	100%	0%	6	20	The purpose of this module is to enable the student to develop an understanding of human biochemistry in assessing disease.
Medical Microbiology	MDMCHA2	100%	0%	6	10	The purpose of this module is to introduce the principles of microbiology necessary in the field of medicine.
Nutritional Medicine	NTMCMY3	100%	0%	7	15	The purpose of this module is to provide students with fundamental knowledge associated with human metabolism, introducing an understanding of the importance of nutrition in relation to human physiology and health.
Pathology	PATCMY3	100%	0%	7	25	The purpose of this module is to provide the student with the knowledge base and theory necessary to have a thorough understanding of the disease process by examining the basic reactions of cells and tissues to the abnormal stimuli that underlie all physical diseases. These fundamental aspects of general pathology are necessary to

						understand the specific responses of specialised organs and tissues examined in systemic pathology.
Personal and Professional Development 1	PPDCMY1	100%	0%	5	5	The purpose of this module is to enhance the students' ability to benefit from the academic learning process and develop personal, communication and career management skills.
Personal and Professional Development 2	PPDCMY2	100%	0%	6	5	The purpose of this module is to enable students to develop skills and competences that enhances their competence in communication, self-management, problem solving, self-confidence, flexibility and the ability to learn effectively.
Pharmacology	PHMCMA3	100%	0%	6	14	The purpose of this module is introduce the student to the major concepts underpinning pharmacology, mechanisms of drug actions and their therapeutic interventions in disease.
Physics for Health Sciences 1	PHYCHA1	50%	50%	5	10	**Science module** The purpose of this module is to develop the basic knowledge and understanding of physics.
Physiology 2	PHYCMY2	100%	0%	6	25	The purpose of this module is to enable the student to describe the relationship between the structure and the specialized functions of the cardiovascular, immune and respiratory systems, the digestive, excretory and reproductive systems to develop students reasoning to assess health related needs and problems in humans.
Phytochemistry	PHTCMB3	100%	0%	7	10	The purpose of this module is to provide students with the fundamental branch of chemistry dealing with the chemical processes associated with plant life and the chemical compounds produced by plants.
Phytotherapy 1	PTTCMY3	100%	0%	7	15	The purpose of this module is to expand the students' knowledge regarding the principles of phytotherapy, efficacy and safety of herbal medicines and their various dosage forms, as well as identify commonly used medicinal plants.
Phytotherapy 2	PTTCMY4	100%	0%	7	20	The purpose of this module is to provide the student with an in-depth understanding and systematic knowledge base of the individual herbs commonly used in a phytotherapy practice.

Practice Management and Jurisprudence 1	PMJCMA4	100%	0%	7	8	The purpose of this module is to confront the student with the numerous challenges and considerations specifically required in the establishment of a homeopathic private practice, to introduce the concept of legal regulation of health professions in general as well as to present specific areas of regulation that are required to be known by the homeopathic graduate when entering practice.
Research Methods in Complementary Medicine	REMCMA4	100%	0%	7	10	The purpose of this module is to provide the student with an understanding and systematic knowledge base of research methods in complementary medicine.
Research Project in Complementary Medicine	REPCMB4	100%	0%	7	10	The research project is aimed at assisting the student to demonstrate sound knowledge, competences and skills gained from all modules to successfully identify a complementary medicine area of research.
Sociology of Health and Health Care	SOHCHB1	100%	0%	6	10	The purpose of this module is to enable the student to develop an understanding of the sociology of health and its application in the field of Complementary Health care in South Africa, with particular emphasis on homeopathy, phytotherapy and acupuncture.

POSTGRADUATE DIPLOMA IN ACUPUNCTURE (E9A01Q)

Name	Code	SM Weight	EM Weight	Level	Credits	Content
Acupuncture Therapeutics 1	ACT01Y1	100%	0%	5	20	The purpose of this module is to enable the student to develop a coherent and critical understanding of acupuncture therapeutics, in order to develop treatment protocols in the management of common conditions
Acupuncture Therapeutics 2	ACT01Y2	100%	0%	5	24	The purpose of this module is to provide the student with an in-depth understanding of the theoretical and research based knowledge related to acupuncture in order to develop strategies and formulations to treat and manage various health conditions.

Applied Research	APRCMY2	100%	0%	5	8	This module is aimed at assisting the student to demonstrate sound knowledge, competences and skills gained from all modules to successfully conduct a research project in the field of acupuncture.
Clinical Acupuncture 1	CLACMY1	100%	0%	5	15	The purpose of this module is to introduce the student to the clinical skills required to practice acupuncture i.e. developing practical skills in needle insertion and manipulation, cupping techniques and application of moxibustion.
Clinical Acupuncture 2	CLACMY2	100%	0%	5	20	The purpose of this module is to provide the student with advanced clinical acupuncture skills related to the treatment and management of patients.
Ethics and Jurisprudence	ETJCMY2	100%	0%	5	8	The purpose of this module is to provide the student with the ethical foundations required in private practice, and to expand on their knowledge pertaining to legal regulation of health professions and specifically acupuncture practice.
Foundations of Acupuncture	FOACMY 1	100%	0%	5	15	The purpose of the module is to enable the student to develop an in-depth understanding of the history, philosophy and principles of acupuncture practices, its efficacy and safety, and the role of evidence-based practice (EBP) in its approach to treatment.
Needling Techniques 1	NETCMY1	100%	0%	5	10	The purpose of this module is to provide students with practical experience related to the various acupuncture needling techniques.

POSTGRADUATE DIPLOMA IN PHYTOTHERAPY (E9P01Q)

Name	Code	SM Weight	EM Weight	Level	Credits	Content
Applied Phytotherapy 1	APT01Y1	100%	0%	5	25	The purpose of this module is to provide the student with an in-depth understanding and systematic knowledge-base of the individual herbs commonly used in a phytotherapy practice.
Applied	APRCMY2	100%	0%	5	8	This module is aimed at assisting

Research						the student to demonstrate sound knowledge, competences and skills gained from all modules to successfully conduct a research project in the field of phytotherapy.
Clinical Phytotherapy	CLPCMY2	100%	0%	5	30	The purpose of this module is to provide the student with the theoretical and research based knowledge related to herbal medicines in order to develop strategies and formulations to treat and manage various health conditions.
Ethics and Jurisprudence	ETJCMY2	100%	0%	5	8	The purpose of this module is to provide the student with the ethical foundations required in private practice, and to expand on their knowledge pertaining to legal regulation of health professions and specifically phytotherapy practice.
Foundations of Phytotherapy 1	FOPCMY1	100%	0%	5	10	The purpose of the module is to enable the student to develop an in-depth understanding of the history, philosophy and principles of phytotherapy practices, efficacy and safety of herbal medicines and their various dosage forms, and the role of evidence-based practice (EBP) initsapproach to treatment.
Herbal Pharmacognosy	HPCCMY1	100%	0%	5	10	The purpose of this module is to provide students with knowledge regarding medicinal plant identification, classification, and preparation, as well as the integration of traditional herbal knowledge with modern phytotherapy research.
Herbal Pharmacology and Phytochemistry	HPPCMY1	100%	0%	5	15	The purpose of this module is to provide students with the chemistry concept that relate to the chemical processes associated with plant life and the chemical compounds produced by plants, as well as toanalyse and apply advanced concepts of the pharmacology of herbal medicines, particularly of the key chemical constituents.
Herbal Pharmacy	HEPCMY2	100%	0%	5	14	The purpose of this module is to provide the student with an in-depth understanding and practical application of the manufacturing and dispensing of herbal medicines in a practice.

MASTER OF HEALTH SCIENCES IN COMPLEMENTARY MEDICINE (M9CM1Q)

Name	Code	SM Weight	EM Weight	Level	Credits	Content
Applied Homeopathic Materia Medica 2	AHM9XY1	100%	0%	9	9	The purpose of this module is to provide the student with applied and evidenced based knowledge related to homeopathic medicines in order to develop advanced strategies and formulations to treat and manage various health conditions.
Applied Phytotherapy 2	APT9XY1	100%	0%	9	9	The purpose of this module is to provide the student with applied and evidenced based knowledge related to herbal medicines in order to develop strategies and formulations to treat and manage various health conditions.
Clinical Practice 2	CPR9XY1	100%	0%	9	9	The purpose of this module is to provide the student with the necessary competencies to assess an extensive range of health problems presented in clinical practice and use a comprehensive range of solutions for their recognition, investigation, diagnosis, treatment and management.
Homeopathic Materia Medica 3	HMM9XY1	100%	0%	9	9	The purpose of this module is to provide the student with an advanced understanding and expanded knowledge base of the Materia Medica remedies used in a homeopathic practice.
Homeopathy Internship	HPI9XB2 HPI9XA2	100% 100%	0% 0%	9 9	0 0	Internship Module.
Phytotherapy 3	PTT9XY1	100%	0%	9	9	The purpose of this module is to provide the student with an advanced understanding and expanded knowledge base of the individual herbs used in a phytotherapy practice.
Practice Management and Jurisprudence	PEJ9XA1	50%	50%		16	**CBE module** The purpose of this module is to provide the student with the advanced skills required in the establishment of a homeopathic/ phytotherapy private practice, and to expand on their knowledge pertaining to legal regulation of health professions and specifically homeopathic/ phytotherapy practice.

Research Project	REP9XY1	100%	0%	9	9	The purpose of this module is for the student to demonstrate sound knowledge, competences and skills gained from all modules to successfully identify, prepare and complete a research project in the field of complementary medicine.
Research Project	REP9XY2	100%	0%	9	9	The purpose of this module is for the student to demonstrate sound knowledge, competences and skills gained from all modules to successfully identify, prepare and complete a research project in the field of complementary medicine.

HS12.4 DEPARTMENT OF EMERGENCY MEDICAL CARE

HIGHER CERTIFICATE IN EMERGENCY MEDICAL CARE (F9E01Q)

Name	Code	SM Weight	EM Weight	Level	Credits	Content
Anatomy 1	ANATCY1	100%	0%	5	12	The Anatomy I Module deals mainly with the structure and organisation of the human body. In this module the student will be introduced to medical terminology used when discussing and / or describing the human body. The learning outcomes of this subject become important when students are required to perform clinical procedures on patients. Such procedures cannot be safely and adequately performed without a sound understanding of the relevant anatomical structures.
Basic Sciences: Chemistry		50%	50%	5	6	**Science module.** The purpose of this module is to develop students' understanding of the basic principles of chemistry to serve as a foundation for the students' further development in their careers in the health sciences.
Basic Sciences: Physics 1A		50%	50%	5	6	**Science module.** A grounding in physics is very important for the student. The physics learning outcomes are applied in a number of other areas in the qualification and also serve as a foundation for the Students' further development in their careers in the health sciences.
Clinical Practice 1	CLPECY1	100%	0%	5	36	The Clinical Practice Module involves supervised clinical practice on real patients predominantly within the pre-hospital environments. Clinical practice is intended to provide the student with an ability to meaningfully integrate the learning outcomes of the emergency medical care theory and practical modules. By the end of the year having completed their clinical hours and skills student should be able to function confidently and professionally in the areas of patient assessment and interaction at the level of an Emergency Care Assistant. This module provides

						the platforming opportunity to integrate and utilise all of the knowledge, skills, attitudes and insights gained in all the other modules making up the programme.
Emergency Medical Care 1 Practical	EMCCPY1	100%	0%	5	24	The Emergency Medical Care I Practical Module focuses on the use of various items of medical equipment commonly found on an ambulance and which are used in the pre-hospital emergency care environment. This module also covers the performance of clinical skills and medical procedures predominantly on a basic life support level.
Emergency Medical Care 1 Theory	EMCCTY1	100%	0%	5	12	The Emergency Medical Care I Theory Module in introduces the student to the concept of Emergency Medical Care and provides a general overview of the approach to and management of ill or injured patients within the emergency care assistant scope of practice.
End User Computing	ENUC011	50%	50%	5	6	**CBE module** This Computer Literacy Module provides the student with the basic skills necessary to operate a personal computer, prepare, edit, print documents, send and receive emails as well as utilise the internet as a source of information.
Foundations of Professional Practice	FOPPCA1	100%	0%	5	12	In the Foundations of Professional Practice Module, the structure and functioning of the broader health sector within the country, as well as how emergency services operate and function, is covered. Also included in this module are topics such as the legal framework within which the emergency care practitioner operates including issues such as expected conduct, professional behaviour and ethics. This module also covers the correct usage, inspection and where applicable the maintenance of vehicles and medical equipment used in the emergency care environment.
Mental Health and Wellness	MHAECB1	100%	0%	5	6	The Mental Health and Wellness Module covers issues of stress and burnout including the ways in which the emergency care practitioner may manage their own metal wellbeing and that of their

						colleagues within the potentially stressful emergency care environment.
Physical Preparedness 1	PHPRCY1	100%	0%	5	0	It is important for an ECA to be physically capable of perform the daily tasks required of them. These tasks are by nature, physical and require the emergency care provider to possess a baseline level of strength and fitness. The purpose of the physical preparedness module to provide students with the opportunity to obtain an acceptable level of physical fitness and swimming proficiency thus supporting them safely engaging in emergency care learning experiences and related environments.
Physiology 1	PHYSEY1	100%	0%	5	12	The Physiology Module deals with the normal functioning of the human body and the various systems. Such an understanding is critical to making sense of the body's response to illness and injury, as well how and why specific treatments and / or interventions are applied. The physiology I module also provides a foundation for the understanding of the Emergency Medical Care and related modules.

DIPLOMA IN EMERGENCY MEDICAL CARE (D9E01Q)

Name	Code	SM Weight	EM Weight	Level	Credits	Content
Anatomy 1	ANAT011	100%	0%	5	12	This module will enable students to gain the relevant anatomical background applicable to **Emergency Medical Care in the following topics:** Basic Tissues Skin Bones of skeleton Joints Muscular System Nervous System Endocrine System Cardiovascular System Digestive System Respiratory System Urinary System Reproductive Systems

						Surface Anatomy
Basic Sciences: Chemistry	CET1DB1	50%	50%	5	6	**Science module.** The purpose of this module is to develop students' understanding of the basic principles of chemistry to serve as a foundation for the students' further development in their careers in the health sciences.
Basic Sciences: Physics 1A	PHY1DA1	50%	50%	5	6	**Science module.** A grounding in physics is very important for the student. The physics learning outcomes are applied in a number of other areas in the qualification and also serve as a foundation for the Students' further development in their careers in the health sciences.
Clinical Practice 1	CLPR011	100%	0%	5	30	EMC Clinical Practice is where the Diploma students are placed at medical facilities in order to work shifts with already qualified professionals. They are able to practice their clinical skills and assessments under supervision in order to gain "hands-on" experience before they qualify. The students rotate through clinics, hospitals, fire stations and well as private ambulance services, which provides them with exposure to all fields of emergency medicine.
Clinical Practice 2	CLPR022	100%	0%	6	36	EMC Clinical Practice is where the Diploma students are placed at medical facilities in order to work shifts with already qualified professionals. They are able to practice their clinical skills and assessments under supervision in order to gain "hands-on" experience before they qualify. The students rotate through clinics, hospitals, fire stations and well as private ambulance services, which provides them with exposure to all fields of emergency medicine.
Emergency Medical Care 1 Practical	EMCPR11	100%	0%	5	12	EMC Practical Class is the place where the Diploma students are able to take their Emergency Medical Care theory knowledge and put it into practice. Simulation dolls and training equipment allows the students to learn to treat patients in a safe and controlled environment. Skills are demonstrated by the instructors and can then be performed safely on mannequins by students until

						competency is met. Case studies and case presentations are also completed to research, reflect and share real life cases that the students have experienced on their clinical shift rotations.
Emergency Medical Care 1 Theory	EMCTH11	100%	0%	5	24	Emergency Medical care theory is the platform where we explore, investigate, understand and apply the current concepts, methods and protocols relevant to the provision of emergency medical care for adult and paediatric patients suffering from acute illness or injury. In this module, you will be challenged to question, and analyse current practice recommendations as well as confront the best ways to integrate the relevant theoretical components into clinical practice at the roadside. You will progress through body systems like the cardiovascular system, neurological system, respiratory system and many more, as well special populations like mother and child, psychiatric patients and many more.
Emergency Medical Care 2 Practical	EMCPR22	100%	0%	6	12	EMC Practical Class is the place where the Diploma students are able to take their Emergency Medical Care theory knowledge and put it into practice. Simulation dolls and training equipment allows the students to learn to treat patients in a safe and controlled environment. Skills are demonstrated by the instructors and can then be performed safely on mannequins by students until competency is met. Case studies and case presentations are also completed to research reflect and share real life cases that the students have experienced on their clinical shift rotations.
Emergency Medical Care 2 Theory	EMCTH22	100%	0%	6	36	Emergency Medical care theory is the platform where we explore, investigate, understand and apply the current concepts, methods and protocols relevant to the provision of emergency medical care for adult and paediatric patients suffering from acute illness or injury. In this module, you will be challenged to question, and analyse current practice

						recommendations as well as confront the best ways to integrate the relevant theoretical components into clinical practice at the roadside. You will progress through body systems like the cardiovascular system, neurological system, respiratory system and many more, as well special populations like mother and child, psychiatric patients and many more.
End User Computing	ENUC011	100%	0%	5	6	The aim of End-User Computing course is to allow you, the learners to familiarize yourselves with the concepts of computer technology in order to use computers effectively during your term of study at the FECC as well as to implement your computer knowledge in the workplace. All the topics in this course are geared towards the user, providing what you need to know to prepare yourself for a business career.
Fire Search & Rescue	FSAR022	100%	0%	6	12	Fire dynamics Fire Fighting & Equipment Personal Protective Equipment Fire search & Rescue.
Foundations of Professional Practice	FOPP011	100%	0%	5	12	The aim of this module is thus to enable you to function effectively and professionally within an emergency health care system or structure. In order to function effectively as a professional emergency care provider it is important to recognise that there exists an additional body of knowledge, skills and insights apart from that which can be directly linked to the clinical management of the ill or injured patient. The module will expose the learner to important areas of emergency care practice that we often take for granted such as Ethics, Professionalism, Code of Conduct, Patient's Rights etc.
High Angle 1	HIAN022	100%	0%	6	12	This module is divided into seven sections: Introduction to high angle rescue Knots High angle equipment Anchor points and rigging systems Belaying Abseiling Ascending Patient packaging

Mental Health and Wellness	MHAW011	100%	0%	5	6	Mental Health and Wellness is essentially a life-skills course designed to educate you in the field of self-care and personal maintenance of healthy and optimal functioning. Given that your chosen profession is amongst the highest rated for severe personal consequences such as substance abuse and burn-out, the ability is recognize these conditions is vital. Education and awareness assists us to remain motivated and excited about your work, to sustain passion, commitment, ability and responsibility in the face of prolonged and continued exposure to severe stress and trauma.
Motor Vehicle Rescue	MOVR022	100%	0%	6	12	Introduction to light motor vehicle rescue Light motor vehicle design and construction Equipment used in light motor vehicle rescue Commonly used rescue techniques / procedures.
Physical Preparedness 1 and 2	PHPR011 PHPR022	100% 100%	0% 0%	5 6	0 0	These modules will concentrate on preparing students both mentally and physically to effectively and safely participate in medical and rescue training and or operational work. Core components include: Physical conditioning (coordination, speed, strength and stamina) Mental preparation and recognition of mental and physical limits in oneself and others; Healthy living and nutrition; Power to weight ratios and management of body weight; Teamwork and leadership in difficult environments; Managing fatigue and physical in oneself and others discomfort; Swimming abilities; Intrinsic and extrinsic motivational approaches to facilitate individual and team achievement during mentally and physically challenging environments; Important of timekeeping and punctuality.
Physiology 1	PHYS011	100%	0%	5	12	This module will enable students to gain the relevant physiological background applicable to Emergency Medical Care in the following topics:

						Chemistry The cell Skin Muscle Bone Nervous system Endocrine system Reproductive system Blood Cardiovascular system Lymphatic system Immune system Respiratory system Digestive system Urinary system.
Primary Health Care	PRHC022	100%	0%	6	6	Introduction to primary health care according to the WHO Legislation Health promotion Community development.

ADVANCED CERTIFICATE IN MEDICAL RESCUE (C9EMRQ)

Name	Code	SM Weight	EM Weight	Level	Credits	Content
Foundations of Rescue Practices	FRP01A1 FRP01B1	100%	0%	6	10	The *Foundations of Rescue Practices* module focuses on the status, structure, and function of technical Rescue in South Africa, as well as the applicable legislation, regulation and standards in technical rescue. Also included in this module are topics such as the different phases of rescue, logistics in rescue and incident management systems. Important rescue team principles and the expected conduct, professional behaviour and ethics are also covered.
Rescue Technologies and Equipment	RTE01A1 RTE01B1	100%	0%	6	15	The *Rescue Technologies and Equipment* module focuses identification, inspection, preparation, operation, maintenance and storage of equipment, vehicles and other resources required to provide safe and effective rescue services.
Communications in the Rescue Environment	CRE01A1 CRE01B1	100%	0%	6	5	The *Communications in the Rescue Environment* module provides the student with the skills and knowledge to identify, establish and operate wireless, remote, hard-wired, direct, or two-way communication systems used for

						command and control of rescue incidents.
High Angle Rescue	HAR01A1 HAR01B1	100%	0%	7	15	The *High Angle Rescue* module focuses on rope rescue systems used to access, package, treat and extricate victims in a range of contexts including, urban, rural, industrial, wilderness and aquatic settings.
Urban Rescue Operations	URO01A1 URO01B1	100%	0%	6	50	The *Urban Rescue Operations* module provides the student with the cognitive ability, technical skills and capabilities necessary for the search, access, packaging and extrication of a victim from a structural, industrial, construction, confined space, domestic or transport related incident.
Rural and Wilderness Rescue Operations	RWR01A1 RWR01B1	100%	0%	6	35	The *Rural and Wilderness Rescue Operations* module provides the student with the cognitive ability, technical skills and capabilities necessary for the search, access, packaging and extrication of a victim from a remote location, wilderness, aquatic related incidents.
Physical Preparedness	PHP01Y1	100%	0%	5	5	The *Physical Preparedness* modules focuses on operational and functional physical preparedness, incorporating components of cardiovascular and muscle endurance, strength, flexibility, task-orientated swimming proficiency and diet.
Basic Sciences: Physics	PHY1DA1 PHY1D1B	100%	0%	5	6	**Science Module:** The Basic Sciences: Physics module focuses on the definitions, methods and principles of concepts that are applicable to rescue, such as: levers, mechanics, mechanical advantage, hydraulics, forces, strength of components, vectors, pressure and friction
Basic Sciences: Chemistry	CET1DA1 CET1DB1	100%	0%	5	6	**Science Module:** The Basic Sciences: Chemistry module's purpose is to develop the applicable knowledge and understanding of chemical principles and techniques of chemistry required for rescue.

Name	Code	SM Weight	EM Weight	Level	Credits	Content
Anatomy 1	ANT01Y1	100%	0%	5	12	This module will enable students to gain the relevant anatomical background applicable to **Emergency Medical Care in the following topics:** Basic Tissues Skin Bones of skeleton Joints Muscular System Nervous System Endocrine System Cardiovascular System Digestive System Respiratory System Urinary System Reproductive Systems Surface Anatomy
Aquatic Rescue	AQR01Y3	100%	0%	6	12	Surface Rescue and Lifesaving Small Boat Handling Swift Water Rescue
Aviation Rescue	AVR01Y3	100%	0%	6	3	Aircraft design, function and fundamentals of aerodynamics and flight Aircraft Safety, communication, signalling, approach and landing areas Trooping procedures Hoisting Lowering Patient packaging and care for patients in the aviation environment.
Basic Science: Chemistry	CHB1BB1	50%	50%	5	6	**Science module.** The purpose of this module is to develop students' understanding of the basic principles of chemistry to serve as a foundation for the students' further development in their careers in the health sciences.
Basic Science: Physics	PHB1AA1	50%	50%	6	5	**Science module.** A grounding in physics is very important for the student. The physics learning outcomes are applied in a number of other areas in the qualification and also serve as a foundation for the Students' further development in their careers in the health sciences.
Clinical Practice 1	EMC03Y1	100%	0%	6	35	On completion of this module the student should have had exposure

						to the following focus areas: Emergency medical service operational systems Professional practice Emergency medical care Documentation and record keeping.
Clinical Practice 2	EMC03Y2	100%	0%	6	40	There are no formal lectures for this module. Module coordinator contact time with the students is mainly administrative or for presentation purposes. Mentor contact time takes place off campus in a clinical environment. Due to the nature of the module, student's experience will be different and their input is essential in the management of this module.
Clinical Practice 3	EMC03Y3	100%	0%	7	24	The Clinical Practice 3 Module deals with practical application of theoretical knowledge and understanding of advanced life support practice in the acute pre-hospital and casualty settings. Section A deals with Work Integrated Learning road shifts. This is where all of the knowledge and procedural competencies students have learnt during the first two years, as well as during EMC01Y3 and EMC02Y3 are integrated and used to assess, diagnose and manage real patients suffering from a variety of illnesses and injuries in a real life setting. Students will also be functioning as part of various EMS services and will need to integrate into those services as a team member. Section B deals with the Clinical Practice Elective block. During this section, students will be expected to work at an Emergency Medical Service that is further than 200km from the University of Johannesburg. Section C deals with case studies and case study presentations. During this section, students will need to submit three case studies describing patients they have managed and to present one of those cases to their peers.
Clinical Practice 4	EMC03Y4	100%	0%	8	20	On completion of this module the student should have had exposure to the following focus areas: Emergency medical service operational systems

						Professional practice Emergency medical care Documentation and record keeping.
Computing Literacy	CSL01A1	100%	0%	5	4	**CBE module** The aim of End-User Computing course is to allow you, the learners to familiarize yourselves with the concepts of computer technology in order to use computers effectively during your term of study at the FECC as well as to implement your computer knowledge in the workplace. All the topics in this course are geared towards the user, providing what you need to know to prepare yourself for a business career.
Confined Space Rescue	CSR01Y4	100%	0%	8	10	Introduction to confined space rescue; Dangers associated with confined spaces; Equipment; Rescue operations.
Diagnostics 1	EMC04Y2	100%	0%	6	12	Patient interaction and history taking General survey & vital signs Skin Head & neck Thorax and lungs Cardiovascular system Breast and axilla The abdomen The male genitalia and hernias The female genitalia The pregnant woman The anus rectum and prostate The peripheral vascular system The muscular skeletal system The nervous system Assessment of children and adolescents.
Disaster Management	DIS01Y4	100%	0%	7	4	South African legislation and the international arena; Risks of disasters; Reasons for apathy; Disaster planning; Different types of disaster situations; Communication during a disaster; Resource management; Incident command system; Triage; Public and media management.
Educational Techniques	EDT01Y4	100%	0%	8	6	Course introduction Effective communication Professional development & Professional knowledge

						Ethics & Professional credibility Cultural sensitivity Planning instructional methods & materials Preparation for instruction Managing the learning environment, to foster learning & performance Managing instruction through technology Student motivation & engagement Presentation skills Facilitation Media & technology Questioning & listening Feedback Promoting retention of knowledge & skills Promote transfer of knowledge & skills Assessing learning & performance Evaluate instructional effectiveness Remediation Conclusion The core elements of this course are benchmarked on the set of competencies for instructors developed by the International Board of Standards for Training, Performance and Instruction (IBSTPI).
Emergency Medical Care 1 Practical	EMC02Y1	100%	0%	5	12	The Primary and secondary survey Cardio-Pulmonary Resuscitation Patient Assessment and History taking Managing Respiratory Emergencies Oxygen Administration Basic Ventilation Airway Management Managing Cardio-vascular Emergencies Electrical Therapy Managing Trauma Emergencies Managing Endocrine Emergencies.
Emergency Medical Care 1 Theory	EMC01Y1	100%	0%	5	24	Cardiopulmonary resuscitation and emergency care Introduction to emergency care Fundamental airway management Hypoxia and hypoxaemia Oxygenation & ventilation Cardiac arrest Cardiopulmonary resuscitation Defibrillation The chain of survival Emergency care of adult patients Patient assessment Respiratory emergencies

						Chronic obstructive pulmonary disease Bronchial asthma Pulmonary embolism Acute respiratory failure Rib fractures Flail chest Pneumothorax Tension pneumothorax Haemothorax Pulmonary contusion Cardiovascular emergencies Ischaemic heart disease Congestive cardiac failure Aortic aneurysms Shock Basic electrocardiography Cardiac tamponade Myocardial contusion Traumatic aortic aneurysm Haemorrhage Central nervous system emergencies Cerebrovascular disease Seizure disorders Cns infections Head injuries Spinal cord injuries Learning unit 5 – Endocrine emergencies Diabetes mellitus Skin and soft tissue emergencies Soft tissue injuries Burns Musculoskeletal emergencies Fractures, sprains & dislocations Git and urogenital emergencies Acute abdomen Acute renal failure.
Emergency Medical Care 2 Practical	EMC02Y2	100%	0%	6	6	Introduction to the patient; Respiratory system; Cardiovascular system; Nervous system and special senses; Musculo-skeletal system; Gastro-intestinal system; Integumentary system; Female genitalia and the pregnant patient; Breasts and axilla; Male genitalia, anus, rectum and prostate; Lymphatic system; Endocrine system.
Emergency Medical Care 2 Theory	EMC01Y2	100%	0%	6	12	Adult Orotracheal Intubation Alternative Airway Devices Tracheal Bronchial Suctioning Pulse Oximetery

						Capnography Fluid Management Toxicology Temperature Related Emergencies Submersion Blasts and Ballistics Use of the Electrocardiograph / Monitor Obstetrics
Emergency Medical Care 3 Practical	EMC02Y3	100%	0%	7	12	Objective Structured Clinical Examination Skills: Specific clinical skills are practiced with the assistance of check sheets and training aids after a demonstration by the lecturer. Needle cricothyroidotomy Surgical cricothyroidotomy Infant oral endotracheal intubation Paediatric oral endotracheal intubation Oral endotracheal intubation with induction Visual nasal intubation Blind nasal intubation Digital intubation Retrograde intubation Bag-valve-tube nebulization Nasogastric tube Orogastric tube Mechanical ventilation Cardioversion Transcutaneous pacing Intra-osseous cannulation External jugular vein cannulation Femoral vein cannulation Drug administration – intramuscular Drug administration – intravenous Drug infusion preparation Prolapsed cord Female urinary catheterization Male urinary catheterization Carotid sinus massage Umbilical vein catheterization Patient Simulations: Scenarios are simulated with the use of training aids and a scenario workbook to enable the students to practice patient communication and management up to an Advanced Life Support Level. Scenarios are created to ensure the students have the opportunity to manage both trauma and medical related incidents that link into the learning modules covered in the module Emergency Medical Care 3 Theory.

Emergency Medical Care 3 Theory	EMC01Y3	100%	0%	7	12	Respiratory Disorders & Emergencies Cardiovascular Disorders & Emergencies Central Nervous System Disorders & Emergencies Bone, Skin & Joint Disorders & Emergencies Gastro-intestinal Disorders & Emergencies Urinary System Disorders & Emergencies Gynaecological & Obstetrical Disorders & Emergencies Haematological Disorders & Emergencies Endocrine Disorders & Emergencies Forensic Medicine Toxicology Environmental Emergencies.
Emergency Service Administration	ESA01Y4	100%	0%	8	6	Entrepreneurship theories New venture creation Entrepreneurial risk management Financing new ventures Business Plans Managing and growing an entrepreneurial firm.
Fire Search & Rescue 1	FSR01Y2	100%	0%	6	12	Fire dynamics Fire Fighting & Equipment Personal Protective Equipment Fire search & Rescue.
Foundations of Professional Practice	FPP01Y1	100%	0%	5	12	Health Care Systems & Structures Legislation, Law, Ethics and Professionalism Emergency Service Vehicles Occupations Health and Safety in the EMC environment Radio and communication systems Procedures and Protocols Emergency Medical Care Equipment.
General Pathology 1	GPA01Y2	100%	0%	6	12	Cellular Adaptations, Cell Injury and Cell Death Acute and Chronic Inflammation Tissue Renewal and Repair: Regeneration, Healing and Fibrosis Hemodynamic Disorders, Thromboembolic Disease and Shock Genetic and Developmental Disorders Diseases of Immunity Neoplasia.
Hazardous Materials Rescue	HAZ01Y4	100%	0%	8	6	Hazmat rescue introduction; Properties of hazardous materials; Personal protective equipment; Recognition of hazardous

						materials; Risk assessment; Incident command; Tactical and defensive control strategies; Decontamination.
High Angle 1	HAR01Y2	100%	0%	6	12	This module is divided into seven sections: Introduction to high angle rescue Knots High angle equipment Anchor points and rigging systems Belaying Abseiling Ascending Patient packaging.
High Angle 2	HAR02Y3	100%	0%	6	12	This module is divided into seven sections: Specialized high angle rescue equipment Advanced anchoring systems Patient management, packaging and stretcher rigging Principles of mechanical advantage Application of advantage systems Suspension systems Climbing Emergencies.
Industrial & Agricultural Rescue	IAR01Y2	100%	0%	6	3	Industrial Incidents Topics Persons trapped in machinery (Rollers, grinders, presses etc.) Escalators incidents Lifts & lift shaft rescues Incidents involving electrical hazards Incidents involving hazardous substances Domestic Incidents Topics Children locked in bathrooms Child head stuck in burglar bars Pool weirs & pumps Children stuck in drains and pipes Electric gates and door entrapments Agricultural Incidents Topics Chemical spills / pesticide leaks Overturned tractors Persons entrapped in farm machinery Incidents involving grain storage bins and silos.
Intensive and Specialized Care	EMC01Y4	100%	0%	8	12	Intensive care unit environment Preparation Arrival and preparation for transportation Transferral

						Handover Intensive care in specialized circumstances Diving related emergencies Altitude related illnesses.
Mental Health and Wellness	MHW1BB1	100%	0%	6	6	**Humanities module** Mental Health and Wellness is essentially a life-skills course designed to educate you in the field of self-care and personal maintenance of healthy and optimal functioning. Given that your chosen profession is amongst the highest rated for severe personal consequences such as substance abuse and burn-out, the ability is recognize these conditions is vital. Education and awareness assists us to remain motivated and excited about your work, to sustain passion, commitment, ability and responsibility in the face of prolonged and continued exposure to severe stress and trauma.
Motor Vehicle Rescue	MVR01Y2	100%	0%	6	12	Introduction to light motor vehicle rescue Light motor vehicle design and construction Equipment used in light motor vehicle rescue Commonly used rescue techniques / procedures.
Paediatric and Neonatal Emergency Care	EMC02Y4	100%	0%	8	12	Paediatric care Neonatal care.
Pharmacology 1	PHA01Y3	100%	0%	7	12	General principles of pharmacology Autonomic nervous system Central nervous system Cardiovascular system Respiratory system Diuretics Gastrointestinal and anti-emetics Endocrine system Chemotherapeutic drugs Anti-inflammatory drugs and autacoids HPCSA: PBECP approved drugs Vaccines.
Physical Preparedness 1, 2, 3 and 4	PFP01Y1 PFP02Y2 PFP03Y3 PFP04Y4	100% 100% 100% 100%	0% 0% 0% 0%	5 5 5 5	0 0 0 0	These modules will concentrate on preparing students both mentally and physically to effectively and safely participate in medical and rescue training and or operational work. **Core components include:** Physical conditioning (coordination,

						speed, strength and stamina) Mental preparation and recognition of mental and physical limits in oneself and others; Healthy living and nutrition; Power to weight ratios and management of body weight; Teamwork and leadership in difficult environments; Managing fatigue and physical in oneself and others discomfort; Swimming abilities; Intrinsic and extrinsic motivational approaches to facilitate individual and team achievement during mentally and physically challenging environments; Important of timekeeping and punctuality.
Physiology 1	PHY01Y1	100%	0%	5	12	This module will enable students to gain the relevant physiological background applicable to Emergency Medical Care in the following topics: Chemistry The cell Skin Muscle Bone Nervous system Endocrine system Reproductive system Blood Cardiovascular system Lymphatic system Immune system Respiratory system Digestive system Urinary system.
Physiology 2	PHY02Y2	100%	0%	6	12	This module will enable students to gain the relevant physiological background applicable to Emergency Medical Care in the following topics: Principles of covering, support and movement Regulation and integration systems of the human body Maintenance of the human body Continuity of life.
Primary Health Care 2	PHC01B2	100%	0%	6	6	Introduction to primary health care according to the WHO Legislation Health promotion Community development.
Research Elective 4	REP01Y4	100%	0%	8	30	Topics for the research project may be chosen from within the field of Emergency Medical Care or

						Rescue.
Research Methodology EMC	RMT01Y3	100%	0%	7	12	Definitions of research The academic contribution of research The scientific method and philosophies of science Types of research and research designs The research life-cycle Research skills Electronic Searching and Access to Information Scientific Writing Statistical Analysis Ethical considerations in research Proposal writing.
Structural Collapse Rescue	SCR01Y4	100%	0%	8	10	Structural collapse incident safety; Structural engineering systems; Specialized equipment; Shoring techniques; Breaching-breaking-cutting-burning; Lifting and rigging.
Trench Rescue	TRR01Y4	100%	0%	7	10	Introduction to trench rescue; Trench rescue equipment; Rescue operation;
Wilderness Search and Rescue	WSR01Y3	100%	0%	7	12	Introduction to wilderness search & rescue areas and operations Theory of map reading, navigation & survival Practical navigation & camp craft Principles of search management Practical management of a search and rescue operation.

POSTGRADUATE DIPLOMA IN CLINICAL SIMULATION (E9CSMQ)

Name	Code	SM Weight	EM Weight	Level	Credits	Content
Introduction to simulation	ITS01A1 ITS01B1	100%	0%	8	10	The content focusses on the history of simulation and the use of simulation in health sciences education. This forms an important foundation for the development of a deep understanding of what simulation is and allows the student to engage with clinical simulation scholarly discourse and related concepts.
Adult learning and simulation pedagogy	ASP01A1 ASP01B1	100%	0%	8	24	The content focusses on understanding adult learning theories and their application to simulation-based teaching. Such an understanding is critical to making sense of teaching and assessment approaches using simulation. The module also provides a theoretical framework and foundation for application and defence of an integrative approach to embedding simulation into the curriculum for both under and post graduate courses.
Simulation technologies and modalities	STM01A1 STM01B1	100%	0%	8	18	This module includes content that will develop an understanding of simulation technologies and modalities. Principles of value and application will serve as a foundation for the student's selection and use of appropriate technologies and their further development as simulation educators.
Clinical Simulation and Instructional design	CSD01A1 CSD01B1	100%	0%	8	24	This is an application module that focusses on the design and construction of simulation-based learning experiences and the appropriate application thereof. Students will be developed in all aspect associated with designing and facilitating simulation-based teaching, learning and assessment experiences
Facilities and Resource Management	FRM01A1 FRM01B1	100%	0%	8	12	In the facilities management module, the structure, functioning, storing and management of resources associated with simulation facilities will be addressed. This module also covers budgeting approaches for funding

						simulation technologies including health and safety considerations associated with operating simulation laboratories.
Simulation and research	SIR01A1 SIR01B1	100%	0%	8	12	The content includes the critical appraisal of research in the simulated environment. The module provides the student with an ability to meaningfully integrate current evidence informed findings within their teaching with an appreciation of the advantages and limitations associated with conducting research using simulation.
Simulation practices (Portfolio)	SIP01Y1	100%	0%	8	24	In this module the focus is on the construction of a portfolio of evidence. It is an opportunity for students to showcase evidence that they have been able to meaningfully implement and integrate taught concepts mastered during the programme within their own teaching learning and assessment context.

HS12.5 DEPARTMENT OF ENVIRONMENTAL HEALTH

BACHELOR OF ENVIRONMENTAL HEALTH (B9ENV1)

Name	Code	SM Weight	EM Weight	Level	Credits	Content
Air Quality Management	AQMEH04	100%	0%	7	20	Elements of air pollution Effects of air pollution Principles of combustion Air quality management, air pollution control and legislation Air pollution monitoring, measurement instrument and methods Meteorology and air pollution Environmental noise measurement, monitoring and control Air quality management plan.
Anatomy & Physiology	APENV01	100%	0%	6	20	Introduction to human anatomy and physiology Chemical basis of life Cells and Cellular metabolism Tissues Integumentary system Skeletal system Joints of the skeletal system Muscular system Nervous system.

Applied Communications Skills	COM1001	50%	50%	5	12	**Humanities module**
Biochemistry	BICH1A1	50%	50%	6	6	**Science module**
Chemistry	CETH1Y1	50%	50%	5	12	**Science module**
Community Development 1	CDENV02	100%	0%	6	15	Community Development process Environmental health promotion Health promotion information and strategies Design environmental health promotion tool/ project Health education concept Community Profiling.
Computing Literacy	CSL01A1	50%	50%	5	6	**CBE module**
Disaster Management	DMENV04	100%	0%	8	10	Definition and description of a disaster; Types of disasters and their consequences; Role and responsibility of environmental health; Disaster communications; Disaster Relief; Management of disasters.
Environmental Epidemiology	EEENV03	100%	0%	7	20	Principles of epidemiology History of epidemiology Non-communicable diseases Epidemiological data presentation, analysis, and interpretation Health measurement Rates, proportions, ratios Disposal of the dead Epidemiology applied to specific areas Environmental Epidemiology Social epidemiology.
Environmental Health Management and Administration	EHMAA03	100%	0%	7	20	Environmental health management system Administration of Environmental health profession Environmental health office practice Reporting systems.
Environmental Management (NEMA & EMI)	EMNME04	100%	0%	8	15	Confidentiality. Specific enforcement provisions in NEMA. Schedule 1 offence. Other criminal offences relating to an EMI's duties. Is an EMI also a peace officer? Who can accompany an EMI in his or her duties? SAPS officials also have EMI powers!

						Special provisions applicable to criminal proceedings. Costs that may be recovered from a guilty party on conviction. Extension of criminal liability. Powers of EMI's The EMI Ranking System.
Environmental Pollution: Water, Waste and Air	EPWWA02	100%	0%	7	15	Sources of water supply Principles of water quality management Water quality control and legislations Water sampling and examination Sources and types of water pollution Water purification and waste water treatment Water pollution control Sanitation, Health and hygiene.
Food and Meat Hygiene	FMHEEH0	100%	0%	6	35	The module introduces food and meat hygiene (inclusive of Good Laboratory Practices). Furthermore the following topics are learned: Food premises design and layout (inclusive of Standard Operating Procedures (SOP) Good Hygiene and Manufacturing Practices (inclusive of Best Available Methods (BAM) Abattoir design and slaughter of animals Slaughter animal anatomy and physiology Meat inspection.
Food Processing and Safety	FPSEH03	100%	0%	7	20	Food security and nutrition Quality factors of food and changes in food Food-borne illnesses and outbreak investigation Preparation / processing and preservation of food Assessment of food for suitability for human consumption.
Food Safety Management	FSMEH04	100%	0%	8	20	Introduction to food quality and safety systems Documenting food safety systems Hazard analysis, risk assessment and management of the identified hazards Assessment of documented FSMS (including appropriate rules of ethics).
Infectious Disease Epidemiology	IDEEH02	100%	0%	7	15	Introduction to Epidemiology - basic concepts and principles Triad of communicable disease Prevention and control of communicable diseases Communicable diseases

						Epidemiology of Parasites, Pests and Vector Borne Diseases Diseases surveillance and outbreak Vector Control.
Introduction to Environmental Health	ITENV01	100%	0%	6	6	Introduction to professional conduct and ethics HPCSA requirements with reference to the Health Professions Act 56 of 1974 Scope of practice for Environmental Health Environmental Health in context South African ethnic groups, beliefs and cultures and their influence on health and environment.
Management Practice	MPENV04	100%	0%	8	12	Change Management Conflict Management Diversity Management The Constitutional Context For Environmental Compliance And Enforcement Project Management and project life cycle.
Microbiology	MCBH1Y1	50%	50%	5	20	**Science module**
Occupational Health and Safety: Chemical / Biological	OHSCB03	100%	0%	7	20	An Overview of Chemical Environmental Factors Dusts, Fumes and Fibres Gases and Vapours General Ventilation Industrial Ventilation Dermatitis Pesticides Biological Environmental Factors Ergonomics Controlling the Occupational Environment Occupational Health and Safety Programs.
Occupational Health and Safety: Management Systems	OHSMS04	100%	0%	8	22	Overview of Basic Principles of Occupational Hygiene Legislation in Occupational Health and Safety Risk Assessment and Occupational Hygiene Management (OHS 18000) Occupational Hygiene Monitoring Strategies Occupational Health service management Emergency Care and Disaster Management Biological Monitoring Topics in Occupational Health and Safety.
Occupational Health and	OHSPS02	100%	0%	7	20	Basic Principles of Occupational Hygiene

Safety: Physical Stress						Occupational Health and Safety Legislation and Occupational Exposure Limits Sound and Noise Vibration Temperature Extremes Ionizing Radiation Non-Ionizing Radiation Occupational Safety Lighting Pressure.
Physics	PHBH1Y1	50%	50%	5	20	**Science module**
Planning for Built Environment	PFBEE02	100%	0%	6	12	Town planning for the Environmental Health Practitioner Layout planning) Building technology – Terminology, building process, site selection and site works Structural building components Environmental Health related elements of planning.
Research Methodology: Biostatistics	RMBEHB3	100%	0%	7	10	Research Study Design Data collection and measurement Introduction to biostatistics Data analysis-Descriptive statistics Data analysis Inferential statistics Applied statistics.
Research Methodology: Module A	RMENVA2	100%	0%	6	8	Steps in a research process Benefits and weaknesses of study designs Preparing a literature review Research population and sampling Selecting an appropriate study design Data collection and measurement.
Research Project	RPENV04	100%	0%	8	30	Planning a Project Literature Review Research Design Data Collection and Ethics.
Sociology 1A	SOC1AA1	50%	50%	9	16	**Humanities module**
Sustainability Development & Ecology	SDEEH01	100%	0%	5	8	Introduction to health, environment and sustainable development Environmental quality and human activity Energy use and sustainable development Ecology Environmental management and planning tools Actions and legal aspects of sustainable development.
Water Quality and Waste Management	WQAWM03	100%	0%	7	20	Introduction to waste management Sources of waste Characteristics and composition of waste Methods of waste collection,

						storage and transportation. Methods of waste collection system. Health implications with waste and waste management.
Water Quality and Waste Management	WQAWM04	100%	0%	8	20	Introduction to waste management Aims and objectives of waste management. Waste management hierarchy. Waste management plan. Supply, use and management of water Impacts of water pollution on environment. Individual accountability and environmental education Health and economic aspects of water in South Africa.

MASTER OF PUBLIC HEALTH (M9EN2P)

Name	Code	SM Weight	EM Weight	Level	Credits	Content
African Health System, Health and Environmental Politics and Management	AHSC2P2	100%	0%	9	16	The module explores the impact of existing health systems and associated political environment on continental demographics; water; ecosystems critical for human survival; health; food and energy.
Emerging National and Continental Environmental Health Challenges	ENCC2P1	100%	0%	9	16	The impact of the above challenges on continental demographics; water; ecosystems critical for human survival; health; food & energy; etc. can be described.
Environmental Epidemiology, Biostatistics and Research Methodologies A	EEBCAP1	100%	0%	9	10	The module introduces and demonstrates the relevance of epidemiology, biostatistics and research methodologies to public health. It provides the foundation to public health surveillance and investigations.
Environmental Epidemiology, Biostatistics and Research Methodologies B	EEBCBP1	100%	0%	9	10	The module introduces and demonstrates the relevance of epidemiology, biostatistics and research methodologies to public health. It provides the foundation to public health surveillance and investigations.
Environmental Health Risk	EHRC2P1	100%	0%	9	10	The purpose of the module is to introduce Environmental Health

and Impact Assessment						Risk and Impact Assessment in the context of Public Health within a region or country's health system.
Health Promotion and Health Behaviour	HPBC2P1	100%	0%	9	10	The purpose of the module is to introduce Health promotion and health behaviour.
Health Systems, Funding Modules and Health Economics	HSFC2P2	100%	0%	9	16	This module sets the objective of introducing students to theoretical research in public health funding models and will equip them with the basic knowledge needed to interpret and appraise applied studies in health economics.
Principle and Practice of Environmental Health A	PPECAP1	100%	0%	9	10	The purpose of the module is to introduce Environmental and Occupational Health in the context of Public Health within a region or country's health system.
Principle and Practice of Environmental Health B	PPECBP1	100%	0%	9	10	This module evaluates and debates occupational and environmental health programs/systems with reference to strengths, weaknesses, core values, ethos of current health reforms and global public health priorities.

HS12.6 DEPARTMENT OF MEDICAL IMAGING AND RADIATION SCIENCES (MIRS)

BACHELOR OF DIAGNOSTIC RADIOGRAPHY (B9M01Q)
BACHELOR OF DIAGNOSTIC ULTRASOUND (B9M03Q)
BACHELOR OF NUCLEAR MEDICINE (B9M02Q)
BACHELOR OF EADIATION THERAPY (B9M04Q)

Name	Code	SM Weight	EM Weight	Level	Credits	Content
Anatomy and Physiology 1	ANP01Y1	100%	0%	5	12	This module will enable students to gain the relevant anatomical and physiological background to the field of Medical Imaging and Radiation in the following topics: Levels of organisation Introduction to anatomy and physiology Chemistry for anatomy and physiology The cell Basic histology Support and movement Nervous system Endocrine system Circulatory System

						Female Reproductive system Respiratory system Digestive system and metabolism.
Anatomy and Physiology 2	ANP01Y2	100%	0%	5	12	This module will enable students to gain the relevant anatomical and physiological background to the field of Medical Imaging and Radiation in the following topics: Integumentary system Lymphatic system and immunity Support and movement Male Reproductive system Urinary system.
Applied Physics	APP01Y1	50%	50%	5	12	**Science module** The purpose of this module is to provide a factual knowledge of definitions, methods and principles in Physics, and provide a broad background knowledge of basic Physics to aid in the understanding and interpretation of future scientific and technological development and to acquire the following life skills such as identifying and solving problems, working in groups and communicating effectively as is needed for the various disciplines in Radiography or Medical Imaging.
Applied Psychology	APY01Y3	100%	0%	7	12	This module will cover the psycho-social aspects of disease, emotional intelligence, basic counselling skills, anger and stress management.
Diagnostic Clinical Practice 1	DCP01Y1	100%	0%	6	24	This module enables the student to apply the theory of diagnostic practice I and includes professional practice within the clinical environment.
Diagnostic Clinical Practice 2	DCP01Y2	100%	0%	7	30	This module enables the student to apply the theory of diagnostic practice 2 and includes professional practice within the clinical environment.
Diagnostic Clinical Practice 3	DCP01Y3	100%	0%	7	24	This module enables the student to apply the theory of diagnostic practice 3 and includes professional practice within the clinical environment.
Diagnostic Clinical Practice 4	DCP01Y4	100%	0%	8	24	This module enables the student to apply the theory of diagnostic practice 4 and includes professional practice within the clinical environment.
Diagnostic Practice 1	DIP01Y1	100%	0%	6	24	This module will introduce the student to the principles of radiographic technique,

						radiographic anatomy, image evaluation and pattern recognition of the chest, abdomen, upper and lower extremities.
Diagnostic Practice 2	DIP01Y2	100%	0%	6	30	This module will introduce the student to the principles of radiographic technique, radiographic anatomy, image evaluation and pattern recognition of the thorax, skull, spine, shoulder and pelvis.
Diagnostic Practice 3	DIP01Y3	100%	0%	7	24	This module will introduce the student to paediatric radiography, as well as the principles of radiographic technique, radiographic anatomy, image evaluation and image interpretation of the gastro-intestinal system, urinary tract, biliary system.
Diagnostic Practice 4	DIP01Y4	100%	0%	8	24	This module will introduce the student to computed tomography and Magnetic resonance imaging principles and practice.
Education in Health	EIH01Y4	100%	0%	8	24	This module aims to introduce the student to the concepts of teaching, learning and assessment in healthcare education.
Imaging Informatics	IMT01Y4	100%	0%	8	24	This module deals with the development, application, and assessment of information technology (IT) for clinical medical imaging from the radiographer perspective.
Imaging Technology 1	IMT01Y1	100%	0%	5	12	Basic principles of x-ray production and medical imaging acquisition and equipment.
Imaging Technology 1	IMT02Y1	100%	0%	5	12	Basic principles of x-ray production and medical imaging acquisition and equipment.
Imaging Technology 2	IMT01Y2	100%	0%	6	24	Advanced principles of x-ray production, medical imaging acquisition and equipment.
Management Principles and Practice	MPP01Y3	50%	50%	7	24	**CBE module** This purpose of this module is to introduce the student to the main themes and concepts of Business Management. The lectures, BlackBoard materials, e-discussions and prescribed reading are designed to enable the students to understand and analyse these concepts in a practical manner.
Nuclear Medicine Clinical Practice 1	NCP01Y1	100%	0%	6	24	The student is introduces to patient care and management, data acquisition including basic data manipulations and general hot

						laboratory management, elution of a molybdenum generator and measurement of dosages.
Nuclear Medicine Clinical Practice 2	NCP01Y2	100%	0%	7	30	This module will deal with imaging of the prescribed systems and the compounding of mix and shake radionuclides.
Nuclear Medicine Clinical Practice 3	NCP01Y3	100%	0%	7	24	This module deals with clinical imaging of the systems covered in Practice 3 and the compounding of the mix and boil radionuclides.
Nuclear Medicine Clinical Practice 4	NCP01Y4	100%	0%	8	24	In this module, students will be able to function in hybrid imaging practices and radionuclide compounding of PET radionuclide.
Nuclear Medicine Instrumentation	NMI01Y2	100%	0%	6	12	This module enables the students to learn about the interaction of radioactivity with matter, images production, nuclear medicine instrumentation utilized in nuclear medicine, quality control and radiation protection.
Nuclear Medicine Practice 1	NMP01Y1	100%	0%	6	24	The student is introduced to good imaging practice, terminology and prescribed imaging systems at this level: • Chest (lungs) • Abdomen (GIT) • Skeletal (in full)
Nuclear Medicine Practice 2	NMP01Y2	100%	0%	6	30	This module will deal with imaging of the following systems: • Endocrine • Abdomen (GIT) • RES • Male reproductive
Nuclear Medicine Practice 3	NMP01Y3	100%	0%	7	24	This module deals with imaging of the following systems: • Cardiovascular • Lymphatics • CNS • Breast
Nuclear Medicine Practice 4	NMP01Y4	100%	0%	8	24	This module deals with imaging of advanced and specialized nuclear medicine procedures in the following: Single Photon Emission Computerized Tomography Imaging (SPECT) Positron Emission Tomography (PET & PET-CT) Infection detection and HIV management Radioimmunoscintigraphy Paediatrics

						New Developments and literature review Nuclear Medicine in the South African Context.
Pathology	PTY01Y1	100%	0%	5	12	This module addresses the basic principles of pathology including the following: • Introduction to basic pathology and medical terminology • Etiology of disease. • Cell necrosis and degeneration. • Inflammation and infection. • Repair and healing. • The immune response. • Disorders of growth. • Circulatory disorders. • Genetic disorders and effect of radiation on normal tissue. • Infective diseases.
Professional Practice	PRP01Y1	100%	0%	5	24	This module will introduce the student to the principles of patient care, professional conduct, ethical values and human rights and academic literacy as pertaining to healthcare.
Professional Practice and Research Principles	PRR01Y2	100%	0%	6	24	This module will expand on the principles of patient care, professional conduct, ethical values and human rights pertaining to healthcare. The student will be introduced to the concepts of research in healthcare.
Radiation Therapy Clinical 1	RTC01Y1	100%	0%	6	24	To develop the clinical competencies of a therapy radiographer at a first year level and will enable the students to apply the theory of Radiation Therapy I and includes professional practice within the clinical environment.
Radiation Therapy Clinical 2	RTC01Y2	100%	0%	7	30	This module enables the student to apply the theory of Radiation Therapy Practice 2 (inclusive of 3D treatment) and includes professional practice within the clinical environment.
Radiation Therapy Clinical 3	RTC01Y3	100%	0%	7	24	This module enables the student to apply the theory of Radiation Therapy Practice 2 (inclusive of IMRT, Stereo, Brachytherapy and specialized 3D treatment delivery) and includes professional practice within the clinical environment.

Radiation Therapy Clinical 4	RTC01Y4	100%	0%	8	24	This module will allow for the application of specialized radiotherapy treatment planning and delivery procedures.
Radiation Therapy Practice 1	RTP01Y1	100%	0%	6	24	To introduce students to the discipline of radiotherapy, with specific emphasis on the oncological management of tumours of the: a) pelvis b) the skeletal system After completing this module, the student should be a competent first year student, ready to progress to Radiographic Practice II.
Radiation Therapy Practice 2	RTP01Y2	100%	0%	7	30	The module will include an introduction to basic radiobiological concepts, an overview of malignant disease, principles of management of malignant disease, the role of diagnostic radiography, nuclear medicine and ultrasound in oncology, radiotherapy treatment of non-malignant disorders and the treatment of the following malignant neoplasms Skin and lip cancers Genito-urinary malignancies Cancers of the alimentary tract and major digestive glands Oncological emergencies.
Radiation Therapy Practice 3	RTP01Y3	100%	0%	7	24	This module covers the radiotherapy treatment planning and delivery of the following neoplasms; Tumours of the respiratory system Tumours of the endocrine system Tumours of the central nervous system Childhood tumours Testicular tumours Lymphoreticular tumours Specialized Head and neck planning Breast cancer Recent advances in oncological management are also discussed.
Radiation Therapy Practice 4	RTP01Y4	100%	0%	8	24	Advances in oncological management Developments in radiotherapy equipment Clinical trials: research in radiotherapy Quality assurance in radiotherapy Departmental management Introduction to training and data present.

Radiographic Department Management Strategies	RGM01Y4	100%	0%	8	12	Evaluation, Instructional strategies and Data Collection Professional environment of the Radiographer / Radiation Therapist / Ultrasonographer / Nuclear medicine Technologist and Departmental Management Quality Assurance in Radiation Therapy / Oncology / Ultrsound / Radiography / Nuclear Medicine Advanced Imaging Technologies Departmental Planning and Design.
Radiopharmacy 1	RPY01Y1	100%	0%	5	12	The student is introduced to rules and regulations of hot laboratory and elution of the Molybdenum generator and biodistribution of Technicium 99m the workhorse radionuclide in nuclear medicine.
Radiopharmacy 2	RPY01Y2	100%	0%	6	12	This module will introduce the student to the radiochemistry and the use of selected radionuclides eg Tc99m compounds
Radiopharmacy 3	RPY01Y3	100%	0%	7	12	This module deals with uses and biodistribution of single photon radionuclides, radiopharmacology, radiobiology and the cold laboratory.
Radiopharmacy 4	RPY01Y4	100%	0%	8	12	Students engage with new developments of radionuclides and uses and interventional studies including PET radionuclides.
Research Methods	REM01Y3	100%	0%	7	24	The module aims at encouraging the student to conduct research by giving them the required knowledge of specific approaches and methods (qualitative and quantitative) and skills employed in applied research.
Research Project 4	RPR01Y4	100%	0%	8	30	This module will allow the student to apply the research skills into a research project.
Specialized Diagnostic Practice 3	SDP01Y3	100%	0%	7	24	This module introduces the student to diagnostic angiography, myelography, Interventional techniques and image interpretation.
Specialized Diagnostic Practice 4	SDP01Y4	100%	0%	8	12	Specialized diagnostic radiography procedures and techniques. Design and planning of new installations. Advances in contrast media.
Specialized Ultrasound	SUS01Y3	100%	0%	7	12	This module is designed to address scanning techniques & protocols in invasive ultrasound procedures.
Specialized Ultrasound	SUS01Y4	100%	0%	8	12	This module is designed to address scanning techniques & protocols in

						invasive ultrasound procedures.
Therapeutics	THR01Y3	100%	0%	7	12	In this module students are introduced to radionuclide treatment of specific deceases.
Treatment Planning & Dosimetry 1	TPD01Y1	100%	0%	6	12	The module will introduce the student to basic treatment planning principles and radiation therapy related apparatus.
Treatment Planning & Dosimetry 2	TPD01Y2	100%	0%	6	24	To expand on the treatment planning and dosimetry principles in first year and to introduce the student to basic principles of radiobiology.
Treatment Planning & Dosimetry 3	TPD01Y3	100%	0%	7	12	This module will focus on specialised treatment planning, equipment and treatment with particle beams.
Treatment Planning & Dosimetry 4	TPD01Y4	100%	0%	8	12	This module will develop the comptencies required in specialized treatment planning and the application of hybrid imaging where applicable.
Ultrasound Clinical Practice 1	UCP01Y1	100%	0%	6	24	The module will address scanning techniques & protocols, detailed anatomy, physiology, pathology and image interpretation of the female reproductivevsystem, 1st trimester pregnancy and the abdominal organs in a clinical context. This will also incorporate the principles of patient care, communication, medical ethics, human rights and reflective practice.
Ultrasound Clinical Practice 2	UCP01Y2	100%	0%	7	30	The module is designed to address scanning techniques & protocols, recognition of cross sectional anatomy on ultrasound images and image interpretation of the small parts, 2nd & 3rd trimester obstetrics and expand on abdominal sysetes in a clinicall context. This will also incorporate the principles of patient care, communication, medical ethics, human rights and reflective practice.
Ultrasound Clinical Practice 3	UCP01Y3	100%	0%	7	24	The module is designed to address scanning techniques & protocols, detailed anatomy, physiology, pathology and image interpretation of the chest, paediatrics & neonatal neurosonography, advanced obstetrics and vascular Doppler in a clinicall context. This will also incorporate the principles of patient care, communication, medical

						ethics, human rights and reflective practice.
Ultrasound Clinical Practice 4	UCP01Y4	100%	0%	8	24	The module is designed to address scanning techniques & protocols, detailed anatomy, physiology, pathology and image interpretation of echocardiography & Musculoskeletal ultrasound in a clinical context. This will also incorporate the principles of patient care, communication, medical ethics, human rights and reflective practice.
Ultrasound Physics Instrumentation	UPI01Y2	100%	0%	6	24	This module will expand on the physical principles of ultrasound image productions, Doppler principles, image recording and quality assurance Introduction The Nature of Sound Interaction of Ultrasound and Matter Intensity and Power Piezo-electricity Transducers Beam Characteristics Biological Effects of Ultrasound Doppler Ultrasound Equipment A-Scan Units B-Scan Units M-Mode Units Artefacts Image Recording Invasive Techniques.
Ultrasound Practice 1	USP01Y1	100%	0%	6	24	The module will address scanning techniques & protocols, detailed anatomy, physiology, pathology and image interpretation of the female reproductive vsystem, 1st trimester pregnancy and the abdominal organs in a theoretical context.
Ultrasound Practice 2	USP01Y2	100%	0%	6	30	The module is designed to address scanning techniques & protocols, detailed anatomy, physiology, pathology and image interpretationof the small parts, 2nd & 3rd trimester obstetrics and expand on abdominal systmes in a theoretical context.
Ultrasound Practice 3	USP01Y3	100%	0%	7	24	The module is designed to address scanning techniques & protocols,detailed anatomy, physiology, pathology and image interpretation of the chest, paediatrics & neonatal neurosonography, advanced

						obstetrics and vascular Doppler in a theoretical context. Additional knowledge will be acquired through self-directed learning &the aquisition of report writing skills.
Ultrasound Practice 4	USP01Y4	100%	0%	8	24	The module will address scanning techniques & protocols, detailed anatomy, physiology, pathology and image interpretation of adult & pediatric echocardiography and musculoskeletal ultrasound.

HS12.7 DEPARTMENT OF NURSING

BACHELOR OF NURSING (B9N02Q)

Name	Code	SM Weight	EM Weight	Level	Credits	Content
Anatomy 1A	ANT01A1	100%	0%	5	10	This module is taught to introduce the students to anatomy, to equip students with knowledge of the anatomy terminology, basic histology, osteology and applicable musculature, control and regulation systems. The students will be able to articulate and apply the knowledge to the content of other nursing modules.
Anatomy 1B	ANT01B1	100%	0%	5	12	This module is taught to introduce the students to anatomy, to equip students with knowledge of the appendicular skeleton, control and regulation systems and maintenance systems. The students will be able to articulate and apply the knowledge to the content of other nursing modules.
Fundamental Nursing Science 1A	FNS01A1	100%	0%	6	12	The purpose of the module is to develop a competent student with appropriate knowledge, skills and attitudes needed, the application of the nursing process, within the professional, legal-ethical framework to promote, restore and maintain the health of individuals, families, groups and communities during their training as caring professionals. To provide a range of comprehensive individualised, culturally sensitive care, in line with de-colonization, to individuals, families, groups and communities.

						Best care practice nursing which is based on evidence-based nursing to promote, to prevent, to cure, rehabilitation and referral diseases and conditions related to lifestyle and burden of diseases.
Fundamental Nursing Science 1B	FNS01B1	100%	0%	6	12	The aim of the module is to assist the student to identify and develop problem solving skills make use of responsible decisions in order to provide care to individuals, families, groups and communities and mother and children. Internalisation of logical, critical, creative, reflective and problem-solving skills in the executing best care practice nursing to patients by utilising the nursing process; make use of the Maslow's hierarchy of needs and determining the health needs of the individuals, families, groups and communities and mothers and children. The students should be able to understand the basic principles in emergency care and demonstrate knowledge of basic cardiopulmonary resuscitation process.
Fundamental Nursing Science Clinical Practice 1C	FNC01Y1	100%	0%	6	60	The aim of this module is to assist the students to develop clinical skills and to demonstrate competency through application of knowledge, skills, attitude and values within the ethical- legal-professional framework during the performance of clinical skills and procedures related to the health needs of the individual, families, groups, communities and mothers and babies.
General Nursing Science 1A	GNS01A2	100%	0%	7	12	The aim of the module is to assist to develop critical, creative, reflective and problem-solving skills in the executing best care practice nursing to patients with haematological system, immunological system and oncology; cardiovascular system; pulmonology system.
General Nursing Science 1B	GNS01B2	100%	0%	7	12	The aim of the module is to assist to develop critical, creative, reflective and problem-solving skills in the executing best care practice nursing to patients with gastrointestinal system; endocrine system; musculoskeletal system and paediatric conditions.

General Nursing Science 2A	GNS01A3	100%	0%	8	17	The aim of the module is to assist to develop critical, creative, reflective and problem-solving skills in the executing best care practice nursing to patients with neurological; renal, fluid, electrolyte and acid balance and reproductive conditions.
General Nursing Science 2B	GNS01B3	100%	0%	8	14	The aim of the module is to assist to develop critical, creative, reflective and problem-solving skills in the executing best care practice nursing to patients with ear, nose, throat and eye; integumentary system and burns; geriatric conditions.
General Nursing Science 3A	GNS01A4	100%	0%	8	12	The purpose of this module is to equip students with knowledge and skills in nursing unit management and ethos and professional practice.
General Nursing Science 3B	GNS01B4	100%	0%	8	12	The purpose of this module is to equip students with knowledge and skills in clinical teaching, clinical teaching as a learning context and teaching strategies and media.
General Nursing Science Clinical Practice 1C	GNC01Y2	100%	0%	7	60	The aim of this module is to assist the students to develop clinical competency skills and to demonstrate competency through application of knowledge, skills, attitude and values within the ethical- legal-professional framework during the performance of clinical skills and procedures related to nursing patients with haematological system, immunological system and oncology; cardiovascular system; pulmonology system and gastrointestinal system; endocrine system; musculoskeletal system; paediatric conditions.
General Nursing Science Clinical Practice 2C	GNC01Y3	100%	0%	8	32	The aim of this module is to assist the students to develop clinical competency skills and to demonstrate competency through application of knowledge, skills, attitude and values within the ethical- legal-professional framework during the performance of clinical skills and procedures related to nursing patients with neurological; renal, fluid, electrolyte and acid balance and reproductive conditions and ear, nose, throat and eye conditions; integumentary system and burns; geriatric

						conditions.
General Nursing Science Clinical Practice 3C	GNC01Y4	100%	0%	8	22	The aim of the module is to assist to develop critical, creative, reflective and problem-solving skills in the executing best care practice nursing within the nursing unit and application of ethos and professional standards in caring for patients in a nursing unit.
Mental Health Nursing Science 1	MHS01A2	100%	0%	5	6	The aim of the module is to assist to develop critical, creative, reflective and problem-solving skills in the executing best care practice in utilisation of therapeutic skills and providing nursing care to patients with mental health conditions.
Mental Health Nursing Science Clinical Practice 1	MHC01A2	100%	0%	5	4	The aim of this module is to assist the students to develop clinical competency skills and to demonstrate competency through application of knowledge, skills, attitude and values within the ethical- legal-professional framework during the performance of clinical skills and procedures related to nursing patients with mental health conditions.
Midwifery Nursing Science 1A	MNS01A3	100%	0%	7	16	The aim of the module is to assist to develop critical, creative, reflective and problem-solving skills in the executing best care practice nursing to pregnant women and neonates with normal conditions in midwifery nursing.
Midwifery Nursing Science 1B	MNS01B3	100%	0%	7	16	The aim of the module is to assist to develop critical, creative, reflective and problem-solving skills in the executing best practice nursing care during normal puerperium, normal neonate and growth and development of infants and children from 0 -6 years old.
Midwifery Nursing Science 2A	MNS01A4	100%	0%	8	16	The aim of the module is to assist to develop critical, creative, reflective and problem-solving skills in the executing best practice nursing care to pregnant women with abnormal pregnancy and neonates with abnormal conditions.
Midwifery Nursing Science 2B	MNS01B4	100%	0%	8	16	The aim of the module is to assist to develop critical, creative, reflective and problem-solving skills in the executing best practice nursing care for mothers and neonates during abnormal puerperium and abnormal neonatal

						period.
Midwifery Nursing Science Clinical Practice 1C	MNC01Y3	100%	0%	7	44	The aim of this module is to assist the students to develop clinical competency skills and to demonstrate competency through application of knowledge, skills, attitude and values within the ethical- legal-professional framework during the performance of clinical skills and procedures related to nursing patients with nursing to patients with normal pregnancy and normal neonate; normal labour and puerperium; introduction of growth and development: infant and children (0-6 years).
Midwifery Nursing Science Clinical Practice 2C	MNC01Y4	100%	0%	8	32	The aim of this module is to assist the students to develop clinical competency skills and to demonstrate competency through application of knowledge, skills, attitude and values within the ethical- legal-professional framework during the performance of clinical skills and procedures related to nursing patients with abnormal pregnancy and neonates; abnormal labour and puerperium.
Pharmacology 1	PHM01B1	100%	0%	5	12	The purpose of this module is to familiarise the student with: • Legal Acts governing the prescription & administration of medication • Legal & professional implications related to prescription & administration of medication by the professional nurse according to the Nursing Act 33 of 2005 • Acts and regulations related to medicines & prescriptions • Legal prescription • Ethical principles & patients' rights • Pharmacokinetics & pharmacodynamics Drug calculations.
Physiology 1A	PHS01A1	100%	0%	5	12	The purpose of this module is to enable students to demonstrate knowledge and understanding of the: • Basic principles, terms & concepts of anatomy &

						physiology and different levels of organisation & homeostasis in living organisms. • Basic chemistry and biochemistry • Cellular level of the organisation regarding structural characteristics and functional processes common to all body cells. The students will be able to describe the role of the skin and body membranes and muscular-skeletal system in support & movement and the organisation of the nervous system & the efficient system of neural communication.
Physiology 1B	PHS01B1	100%	0%	5	13	The purpose of this module is to enable students to explain the following: • Levels of organisational complexity in the human boy relating to endocrine and nervous systems • Knowledge of blood, fluid component of the cardiovascular system • Relationship between the respiratory, digestive, urinary systems and their direct contact with the environment. Male & female reproductive functions, fertilisation, cleavage, implantation, placentation and embryogenesis.
Physiology 2A	PHS01A2	100%	0%	6	12	The purpose of this module is to enable students to explain the following: • Human physiology, chemical and cellular levels of organisation • Functional morphology and physiological processes of the integumentary and muscular skeletal systems of the human body Specialised functions of the nervous system in order to develop reasoning and analytical skills in planning, diagnosing, implementing and evaluation of health-related needs and problems.
Physiology 2B	PHS01B2	100%	0%	6	13	The purpose of this module is to enable students to describe the following:

						• Functions of the nervous & endocrine systems in control of body functions & their clinical application • Role of blood in transporting nutrients & waste products & importance of the heart & blood vessels in keeping the blood circulation & delivering it to its target, the tissues. • Role of the respiratory, digestive, urinary systems in the maintenance of homeostasis in respect of their direct contact with environment Male and female reproductive structures and functions that ensure continuity of species by producing offspring.
Psychology 1	PSY1AA1	50%	50%	5	6	**Humanities** This module is taught to equip students with knowledge introduction to psychology, learning and memory, stress and coping, health psychology and positive psychology. The students will be able to articulate and apply the knowledge to the content of this module to the outcomes of the other modules related to nursing and midwifery.
Research Methodology	RSM01Y3	100%	0%	8	8	The aim of this module is to enable students to demonstrate an understanding of the research framework in nursing, comply to all ethical standards necessary in a research project, identify and use literature successfully and show evidence of application and understanding of the initial steps of the research process.
Research Project	RSP01Y4	100%	0%	8	8	The aim of this is to enable students to demonstrate the ability to conduct research in investigating nursing and health-related problems in order to improve quality of nursing care.
Sociology 1	SOC1AA1	50%	50%	5	6	**Humanities** This module is taught to equip students with knowledge in introduction to sociology, society culture and identities and the family. The students will be able to articulate and apply the knowledge

						to the content of this module to the outcomes of the other modules related to nursing and midwifery.

POSTGRADUATE DIPLOMA IN MIDWIFERY (E9MW1Q)

Name	Code	SM Weight	EM Weight	Level	Credits	Content
Ethical Legal Professional Frameworks	ELP8X01	100%	0%	8	8	Collaborative practice in midwifery Planning, commissioning, and managing of a midwifery obstetric unit Decision-making and evidence-based practice in midwifery Self-directed and lifelong learning in midwifery Collaborative practice in midwifery Quality improvement in midwifery
Research	REN8XY1	100%	0%	8	10	The research process: Problem identification, literature review, design, and communication Research project formulation
Normal and Abnormal Pregnancy	NAP8X01	100%	0%	8	8	Preconception care Adaptations during pregnancy High-risk pregnancy High-risk foetus
Normal and Abnormal Labour	NAL8X02	100%	0%	8	8	Physiology of normal and abnormal labour Comprehensive management of a high-risk woman during labour Mechanism of labour Obstetrical emergencies during labour High-risk foetus during labour
Clinical Practice in Midwifery	CPM8XY1	100%	0%	8	40	Antenatal care clinical procedures

						Intrapartum care clinical procedures Formative - 3 x CCPA (Comprehensive Clinical Patient Assessment) Summative – 1 x CCPA
Postnatal Care	PSC8X02	100%	0%	8	8	Physiologic homeostasis during puerperium Adaptations during puerperium Comprehensive management of a high-risk postnatal woman Obstetrical emergencies during puerperium
The Neonate	NEO8X02	100%	0%	8	8	Neonatal adaptation to extra-uterine life. Comprehensive management of a high-risk neonate Danger signs in a high-risk neonate Complications of a high-risk neonate
Clinical Practice Midwifery 2	CPM8XY2	100%	0%	8	40	Postnatal care clinical procedures. Neonatal care clinical procedures Formative - 3 x CCPA (Comprehensive Clinical Patient Assessment) Summative – 1 x CCPA

POSTGRADUATE DIPLOMA IN CRITICAL CARE NURSING (ADULT) (E9IC1Q)

Name	Code	SM Weight	EM Weight	Level	Credits	Content
Ethical Legal Professional Frameworks	ELP8X01	100%	0%	8	8	Collaborative practice in adult critical care Planning, commissioning, and managing of an adult critical care unit Decision-making and evidence-based practice in adult critical care

						Self-directed and lifelong learning in adult critical care Collaborative practice in adult critical care Quality improvement in adult critical care
Research	REN8XY1	100%	0%	8	10	The research process: Problem identification, literature review, design, and communication Research project formulation
Cardiology and Cardiothoracic Surgery	CCS8XY1	100%	0%	8	8	Cardiac conditions Cardiac treatment modalities Cardiothoracic surgery Congenital cardiac conditions
Pulmonology and Specific Pulmonary Conditions	PSP8X01	100%	0%	8	8	Pulmonary conditions Pulmonary treatment modalities Pulmonary surgery
Clinical Practice in Adult Critical Care	CPA8XY1	100%	0%	8	40	Cardiovascular system clinical procedures Respiratory system clinical procedures Miscellaneous clinical procedures Three (3) formative and one (1) summative CCPA (Comprehensive Clinical Patient Assessment)
Nephrology	NEP8X02	100%	0%	8	8	Nephrology conditions Nephrology treatment modalities Nephrology surgery
Neurology and Neurosurgery	NNS8X02	100%	0%	8	8	Neurology conditions Neurological treatment modalities Neurosurgery
General Surgery, Sepsis, and Endocrinology	SSE8X02	100%	0%	8	8	Patients with burns Abdominal Compartment Syndrome DKA and HHNS SIRS & Septic shock DIC; Liver dysfunction; Acute pancreatitis Patient with HIV; HIV/AIDS and TB

						Shock
Clinical Practice in Adult Critical Care 2	CPA8XY2	100%	0%	8	32	Neurology system clinical procedures Trauma clinical procedures Renal system clinical procedures Nutrition Miscellaneous Three (3) formative and one (1) summative CCPA (Comprehensive Clinical Patient Assessment)

POSTGRADUATE DIPLOMA IN NURSING EDUCATION (E9ED1Q)

Name	Code	SM Weight	EM Weight	Level	Credits	Content
Ethical Legal Professional Frameworks	ELP8X01	100%	0%	8	8	Ethical-legal-professional frameworks as applied to Nursing Education Planning, commissioning, and managing of a nursing education establishment Decision-making and evidence-based practice Nursing Education Self-directed and lifelong learning in Nursing Education Collaborative practice in Nursing Education Quality improvement in Nursing Education
Research in Nursing Education	REN8XY1	100%	0%	8	10	The research process: Problem identification, literature review, design, and communication Research project formulation
Didactics	DID8X01	100%	0%	8	8	Didactic concepts, aspects of didactics; didactics and the discipline of didactics; subject didactics; didactics and modern technology; didactics as

						a discipline of Andragogy; didactic environments; didactic principles; selection and organizing content; learning paradigms. Learning approaches and styles
Curriculum Orientation and Design	COG8X01	100%	0%	8	8	Curriculum orientation concepts; teacher empowerment strategies; curriculum alignment with mission, vision, and philosophy of NEI, inter- and intra-professional collaboration for other sciences and stakeholder engagement in curriculum design, curriculum design models and applicability; criteria and components for curriculum design and review for accreditation. Curriculum dissemination-stakeholders; administration; divergent attitudes; curriculum implementation-purpose, inhibiting factors, stakeholder involvement, communication; budget and human and material resources Curriculum evaluation models: first generation; second generation; third generation and fourth generation
Teaching and Learning Strategies and Media	TLS8X02	100%	0%	8	8	Personal attributes, role model teaching and facilitation of learning; teaching strategies in classroom, simulation laboratory, clinical and online Teaching and learning media: digital, multimedia, and social

						media; planning and preparing to use media; categories and application of educational media
Assessment and Evaluation Strategies	AEL8X02	100%	0%	8	8	Concepts in assessment and evaluation; approaches to assessment: formative, summative, episodic, continuous, clinical, and integrated assessment; requisites for assessment; purposes of assessment and evaluation; principles of assessment; preparation for assessment; methods of assessment, marking and grading assessment, marking approaches and methods. Specification table and grid; providing feedback
Contemporary Dynamics in Nursing Education	CDN8X02	100%	0%	8	8	Global trends and dynamics in nursing education
Nursing Education Practice	PNE8XY2	100%	0%	8	72	Theoretical facilitation of learning; simulation; classroom; clinical; lesson plan

HS12.8 DEPARTMENT OF OPTOMETRY

BACHELOR OF OPTOMETRY (B9O02Q)

Name	Code	SM Weight	EM Weight	Level	Credits	Content
Binocular Vision 1	BVI00Y3	100%	0%	6	14	Definitions and terms The visual direction Vergence eye movements Eye movements Accommodation Convergence/ accommodation ratio The visual pathway Visual defects Motor adaptations to a strabismus Extra ocular muscles Sensory adaptations Tests needed to accurately assess the binocular system.
Binocular Vision 2	BVI00Y4	100%	0%	8	16	Introduction Third year introductory work: Troxlers phenomenon Dark focus Fusion and binocular summation Neuroanatomy and physiology of binocular vision and stereopsis Accommodation Vergence Accommodative-vergence Heterophorias Amblyopia Aniseikonia Management: Prescription of visual aids Vision therapy VDT'S Sports vision Theories of strabismus development Sensory adaptations (done in third year) Microstrabismus Examination of a strabismic patient: Sequelae of EOM palsy: Measurement of eye position: Prognosis and probability of cure: Considerations in treatment of strabismus Success rates for surgery: Complications of surgery Swan's syndrome Dissociated Vertical Deviation (DVD) Nystagmus

						Brain systems for eye movement Systemic disease in binocular vision.
Biochemistry 1B	BIC01B1	50%	50%	5	15	**Science module**
Business Practice, Ethics and Jurisprudence	COB02Y4	100%	0%	7	8	Health care services in South Africa Patients' Rights Charter Ethics – Clinical, Professional, Public policy and Research Jurisprudence – Health Professions Act, rules and regulations Advertising – rules and regulations Role and function of key stakeholders including HPCSA, CMS, SAOA, BHF etc. Optometry in terms of structure, scope of practice etc. Policy document on Undesirable Business Practices – Health Professions Council of South Africa Marketing opportunities, analysis & research Marketing plan Services marketing Competitor analysis Basic accounting Interpretation of financial statements Financial ratios Discounted cash flows Practice appraisal and valuation Breakeven points.
Chemistry 1C	CEM1CA1	50%	50%	5	15	**Science module**
Community and Environmental Optometry	COB01Y4	100%	0%	7	8	Health care services in South Africa Role of optometry in the health care system Patients' Rights Charter Sport vision options in optometric practice Vision and environmental options and modifications Visual ergonomics in the workplace Visual requirements for driving Lighting strategies Ocular hazards and protection.
Contact Lenses 1	CTL00Y3	100%	0%	6	14	Anatomy and physiology of the cornea History of contact lenses Classification of contact lenses Basic principles of soft contact lenses Methods of contact manufacturing Clinical routine

						Fitting philosophies of soft contact lens selection Astigmatism correction with soft contact lenses Soft contact lens care and storage Basic principles of Rigid Gas (RGP) contact lenses RGP lens fitting Astigmatism correction with RGP lenses RGP lens care and storage Contact lens aftercare Contact lens induced complications Optics of contact lenses PRACTICAL: Preliminary evaluation Slitlamp Hard lens inspection Keratometry Radiuscope Scleral lens fitting Hard lens insertion Soft lens insertion Soft lens inspection.
Contact Lenses 2	CTL00Y4	100%	0%	8	16	Optics Corneal physiology Contact lens Materials: Hard lenses: Special cases:
Dispensing Optometry 1	DOP00Y2	100%	0%	6	8	Ophthalmic lens materials Glass History of glassmaking The development of optical glass The manufacture of Optical glass Desirable characteristics and defects of optical glass Plastic materials Characteristics Manufacture of plastic lenses Optical and physical properties of plastic lenses The strength of lens materials The strength of glass Methods of tempering glass lenses Impact resistance of plastic lenses Lenses for occupational and educational use Characteristics of Ophthalmic lenses Physical characteristics The lens measure Lens form: Spherical and astigmatic lenses Lens blanks and base curves Prescription writing and transposition Power measurement Hand neutralization The lensometer

						Ophthalmic prisms and decentration Effects of prisms on movements of the eye Prentice's rule Specification of lens and frame sizes Multifocal and progressive lenses Bifocal and trifocal lenses Lens verification Differential prismatic effect in single vision, bifocal and progressive lenses Ordering and dispensing bifocals Progressive addition lenses Eyewear design and dispensing Spectacle frames and mountings Modern frames and mountings Metal frame and mounting materials Plastic frame materials Bridge and temple styles for plastic frames Frame measurements and markings Frame selection Fitting principles Frame alignment.
Dispensing Optometry 2	DOP00Y3	100%	0%	6	8	Checking centration of finished spectacles Care and maintenance of glasses Advice about use of glasses Subsequent adjustments Lens insertion Standard Alignment Adjusting the frame Frame repairs and modification Progressive addition lenses Patient selection Matching design and patient Dispensing considerations Essential fitting measurements Frame selection Verification of progressive addition lenses Patient communication Absorptive lenses and safety against ultraviolet Cutting and fitting ophthalmic lenses Mark lenses up according to prescription Lens treatment Tints Hardening Insert lens in frame Verify and dispense to patient.

General and Ocular Pharmacology	OPH00Y3	100%	0%	6	14	Basic pharmacological concepts Ocular pharmacokinetics Ocular formulations and delivery systems Autonomic nervous system Cycloplegics Mydriatics Miotics Anti-glaucoma medications Local anaesthetics Antimicrobial agents Anti-inflammatory agents Dry eye preparations Contact lens rewetting solutions.
General Pathology for Optometry	OPA00Y2	100%	0%	6	12	Principles and dynamics of general pathological processes. Principles and dynamics of General Pathological Processes in Haematological Disorders and Cardiovascular disease Principles and Dynamics of General pathological processes in Neurological Diseases and Endocrine Disorders Principles and Dynamics of General pathological processes in important systemic disease with significant ocular manifestations.
Human Anatomy 1A	HAN01A1	100%	0%	5	12	This module is taught to introduce the students to anatomy, to equip students with knowledge of the composition of the body, the structure of cells, tissues, joints and muscles of the body. They will understand the micro anatomy of the cells and tissues; the classification, microanatomy, macro anatomy of the skeleton as well as the joints and muscles. Introduce the students to the central, peripheral and autonomic nervous systems, the special sense organs and the endocrine glands, to equip students with knowledge of the , the structure of neural tissue, the brain, cranial nerves and plexuses, the sympathetic and parasympathetic nervous systems as well as the nose, eye, tongue and ear. They will understand the gross and micro anatomy of all the organs and structures. The students will be able to articulate and apply the knowledge to the content of the other modules.
Human Anatomy 1B	HAN01B1	100%	0%	5	12	This module is taught to introduce the students to the central,

						peripheral and autonomic nervous systems, the special sense organs and the endocrine glands, to equip students with knowledge of the , the structure of neural tissue, the brain, cranial nerves and plexuses, the sympathetic and parasympathetic nervous systems as well as the nose, eye, tongue and ear. They will understand the gross and micro anatomy of all the organs and structures. The students will be able to articulate and apply the knowledge to the content of the other modules.
Human Physiology 2A	HPH02A2	100%	0%	5	12	The purpose of this module is to describe the relationship between the structure and the specialized functions of cells, integument, skeleton and muscles, explain the principles of neurophysiology, nervous and endocrine systems predict the effect of aging on each of the above-mentioned systems and identify examples of interactions between other organ systems to develop students reasoning to assess health related needs and problems in humans.
Human Physiology 2B	HPH02B2	100%	0%	5	12	The purpose of this module is to describe the relationship between the structure and the specialized functions of the cardiovascular, immunity and respiratory systems, digestive, excretory and reproductive systems, predict the effect of aging on each of the above-mentioned systems and identify examples of interactions between other organ systems to develop students reasoning to assess health related needs and problems in humans.
Introduction to Optometry	OPI00Y1	100%	0%	5	8	Introduction to anatomy and function of the eye Optometry within the health care team and system in South Africa Introduction to Professional ethics and Governance of the Profession Outline of optometric terms Outline of an optometric exam Specialized areas of optometric practice Overview of common eye diseases and conditions Commonly used optometric instrumentation and optical appliances

						First aid, recognition and management in an emergency.
Low Vision	LVI00Y4	100%	0%	8	16	Introduction to low vision and course content Definitions of low vision; functional and legal blindness; population profile Adjustment to vision loss; interview techniques Low vision assessment sequence; case history; low vision record card; Clinic routine Measuring distance visual acuity using low vision charts and techniques Feinbloom distance acuity chart, Lighthouse Distance acuity chart Calculation options for magnification for distance tasks Measuring near visual acuity using low vision charts Lighthouse Near acuity chart, Bailie-Lovie chart Calculation options for magnification for near tasks Magnification calculations and conversions between measurement types Low Vision Refraction techniques Prognosis table, External evaluation Visual fields; colour testing; contrast sensitivity Magnification types Distance low vision devices (optical) Distance low vision devices (optical) - telescopes Near low vision devices (optical) - hand & stand magnifiers Low vision training with NEAR optical devices Low vision training with DISTANCE optical devices Optics of low vision devices Eccentric viewing - assessment and training Light glare and contrast Non - optical low vision options including electronic devices Visual field enhancement - management options Bioptic telescopes Assisting the low vision child in the mainstream classroom Management and treatment options of ocular pathologies with

						central field loss Management and treatment options of ocular pathologies with no field loss - acuity only Management and treatment options of ocular pathologies peripheral field loss Low Vision in Private Practice - getting started.
Mathematics 1A	MAT01A1	50%	50%	5	15	**Science module**
Microbiology 2A	MCB01A2	50%	50%	6	20	**Science module**
Ocular Anatomy and Physiology 3A	OAF03A3	100%	0%	6	4	A candidate credited with this module will be able to define and explain the embryonic development of the human eye, the visual pathway and the innervation of the eye and accessory structures. The student will also be able to define and explain the composition of the bony orbit, the structure and histology of the eyeball and accessory structures using the microscope, charts and dried skeletal parts.
Ocular Anatomy and Physiology 3B	OAF03B3	100%	0%	6	4	Students credited with this module will be able to discuss the importance of tear film and movement of solutes, oxygen and water through the cornea. They will be able to explain the mechanisms of tear film production and corneal membrane transport. The student will also be able to define the composition of the fluids in the eye adjacent to the lens, retina and cornea and explain the physiological processes responsible for the proper functioning of these fluids and structures.
Ocular Pathology 1	OPA00Y3	100%	0%	6	20	Diseases and disorders of: Tears and adnexa The eyelids Conjunctiva Cornea The anterior uvea The pupils Sclera Episclera.
Ocular Pathology 2	OPA00Y4	100%	0%	8	20	Anomalies and abnormalities relating mainly to the posterior segment structures of the eye as well as associated complications and related systemic conditions.

						Appropriate management of the ocular pathology underpinned by differential diagnosis, workup and supporting knowledge of referral. Structures include: The Vitreous, The Uvea, The Retina and Retinal vascular abnormalities which include common vascular diseases such as diabetic retinopathy, hypertensive retinopathy and internal carotid artery disease. Retinal degeneration / variations and retinal detachment. Retinal tumours and injuries to the retina. Other common diseases with ocular involvement include: Rheumatology, Thyroid disorders, Bell's palsy, Anaemias, Sickle cell retinopathy, Myasthenia gravis and Multiple sclerosis, Optic Nerve Disease and anomalies including glaucoma. Pathology of the orbit, and Neoplasms in the eye. The crystalline lens and lens changes, Cataract surgery options and complications of cataract surgery.
Ophthalmic Optics	OOP00Y2	100%	0%	6	8	Optical systems, light, rays, pencils, vergence, wavefronts and the eye Sigmatic refracting surfaces and lenses, saggita, lens thickness, conics, quadrics and lens forms Astigmatic refracting surfaces, vergences, lenses and representation of power Dioptric power matrices and applications including bifocals, contact lenses, submerged eyes, pseudophakic eyes, tilted lenses and thick lens systems Inclination and deflection of a ray and prismatic effect of lenses including centred and decentred lenses Linear optics and applications in two-and three-dimensional systems, including cardinal points, magnification, blur and chromatic aberrations.
Optics	OPO00Y2	100%	0%	6	12	Theory: The basics of optics, light, vision and optical surfaces Geometric behaviour of light. The concept of vergence Refraction at Plane and curved

						surfaces. Reflection Refracting States of the Eye. Thin lenses, thick lenses and lens systems. Angular magnification Stops in optical instruments. Aberrations Photometry Colour The physical nature of light Waves and Superposition Diffraction Scattering and Polarization Systems Evaluation Practical: Geometrical Optics Reflection by plane and spherical surfaces Refractive index Deviation produced by a prism Refraction of light through lenses Lens combinations The lens makers equation Illumination Inverse square law Lambert's law Reflection factor Transmission factor Physical Optics Wavelength using spectrometer Wavelength using diffraction grating Thickness using an air wedge Radius using Newton rings.
Optometry 1 Practical	OPP00Y2	100%	0%	6	8	Case History Visual Acuity Emmetropia & Spherical Ametropia Astigmatism Accommodation Presbyopia Eye Movements External & Internal Ocular Health Examination Visual Fields.
Optometry 1 Theory	OPT00Y2	100%	0%	6	8	General Terminology The Eye as an Optical System Gullstrand I & II and Reduced Eyes and related calculations Visual Acuity Contrast Sensitivity Emmetropia Spherical Ametropia Astigmatism Accommodation Presbyopia Eye Movements (vergence and versions)

						Colour Vision The Eye Examination.
Optometry 2 Practical	OPP00Y3	100%	0%	6	10	Refraction methods Retinoscopy methods Accommodation test Vergence testing Phorometry testing Diagnostic procedures Case analysis.
Optometry 2 Theory	OPT00Y3	100%	0%	6	10	Refraction Retinoscopy Accommodation Vergence Phorometry Binocularity Case analysis Analytical optometry.
Optometry 3 Research Methods	OPP00Y4	100%	0%	8	10	Optometric research methods General introduction Basic principles and symmetric dioptric power space Quantitative and qualitative analysis and representation of vision statistics and variation using stereo-pair scatter plots, and meridional and polar plots Hypothesis testing and inference Departures from multivariate normality and surfaces of constancy Introduction to psychophysics of vision Quantitative and qualitative analysis and representation of multidimensional data including transferences for optical systems such as the eye Introduction to other topics relating to research methodology such as ANOVA and MANOVA.
Optometry 3 Theory	OPT00Y4	100%	0%	8	10	Supplementary diagnostic methods Electrodiagnostic methods (visual evoked potentials, eletroretinography and perimetry) Ultrasonography Optical coherence tomography and scanning laser polarimetry or ophthalmoscopy General diagnostic procedures (including gonioscopy, applanation tonometry, retinal lenses and binocular indirect ophthalmoscopy) Theoretical and clinical / practical aspects of ocular and vision care Modern advancements and methods of optometric case analysis Optometry and its role regarding refractive surgery including corneal

						topography and wavefront aberrometry Optometric image quality metrics such as point spread and modulation transfer functions Neurological examination of the optometric patient Basic laboratory medicines for optometrists Colour deficiency Current topics from literature.
Paediatric Optometry 1	PED00Y3	100%	0%	6	14	Overview of normal development of the child Prenatal milestones Peri-natal stage Postnatal development (Birth to two years) Developmental Theories: Piaget, Erikson, Freud, (Getman) and Skeffington Overview of the development of ocular components and assessment of the visual system Model of vision Development of the visual system and refractive error Case history Assessment of the visual system – infant, preschool child and school going child Perceptual skills Development of perceptual skills Specific tests used in perceptual evaluation Nutrition Visual screening.
Paediatric Optometry 2	PED00Y4	100%	0%	8	16	Introduction and revision of third year work Expectations and Evaluations of the paediatric visual examination Case History Model of Vision Developmental milestones of the child Visual development Visual Perceptual Evaluation of the child Optometric management of Visual Perceptual skills dysfunctions Visual acuity Evaluation of the child Refractive error Evaluation of the child Ocular health Evaluation of the child Management of Visual acuity problems & Refractive error Visual Efficiency Evaluation Management of Visual Efficiency

						Vision Therapy procedures for Developmental Visual Information Processing Disorders Overview of learning disabilities, coloured overlays and reading Paediatric Ocular Pharmacology Assessment and Management of the Exceptional Child Diseases of orbit and anterior segment Diseases of posterior segment Ocular Manifestations of systemic diseases.
Physics 1C	PHY1CA1	50%	50%	5	15	**Science module**
Physics 1D	PHY1DB1	50%	50%	5	15	**Science module**
Psychology 1A	PSY1AA1	50%	50%	6	15	**Humanities module**
Psychology 1B	PSY1BB1	50%	50%	6	15	**Humanities module**
Statistical Methods 1A	SMT01A1	50%	50%	5	8	**Science module**

HS12.9 DEPARTMENT OF PODIATRY

BACHELOR OF HEALTH SCIENCES IN PODIATRY (B9P01Q)

Name	Code	SM Weight	EM Weight	Level	Credits	Content
Anatomy and Physiology	ANTPHY1	100%	0%	5	36	This module will enable students to gain the relevant anatomical and physiological background applicable to Podiatry in the following topics: Levels of organisation Integumentary system Support and movement Nervous system and senses Endocrine and reproductive systems Circulatory System Lymphatic system and immunity Respiratory system Digestive system and metabolism Urinary system.
Applied Pharmacology	APPHSY4	100%	0%	8	10	Antibiotics and wound infections Antibiotics and systemic infections. Systemic antifungal agents. Injectable corticosteroids. Non-steroidal anti-inflammatory drugs. Narcotic analgesics. Long acting local anaesthetic agents. Clinical trials; ethical aspects. Prescription writing. Drug monitoring protocols. Side effects, adverse drug reactions and clinical emergencies associated with scheduled drugs. Ethical & Rational prescribing HPCSA: PPB approved drugs Vaccines Categories of Drugs Local Anaesthetics Gout Medications Corticosteroids Antidiabetic agents Antibiotics Antifungals Dermatologic Pharmacology Prescription Writing DMARDS Anti-mycobacterial Drugs.
Basic Science: Chemistry	CHB1BB1	50%	50%	5	6	**Science module**

Basic Science: Physics	PHB1AA1	50%	50%	5	6	**Science module**
Clinical Practice 1 (Practice)	CLPPHY1	100%	0%	5	20	Introduction to podiatry skills using simulations and role playing: • Padding and Strapping • Biomechanics and gait analysis • Debridement of skin lesions • Wound Dressings • Disinfection and Sterilization • Basic First Aid Course • Instruments and equipment • Patient interaction ○ Patient history taking ○ Patient records ○ Patient examination.
Clinical Practice 2 (Practice)	CLPPHY2	100%	0%	5	16	The student will attend and treat patients at the scheduled clinics at Doornfontein campus Podiatry clinic.
Clinical Practice 2 (Theory)	CLPTHY2	100%	0%	5	16	Rules and regulations of clinics Emergency procedures Principles of patient assessment: • Orthopedic assessment • Blood Pressure • Airway & lung function • Muscle strength testing • Neurological examination • Vascular examination • Locomotion and gait. • Therapeutic modalities • Laboratory test. • Radiology. Anti-fungal therapy.
Clinical Practice 3 (Practice)	CLPPHY3	100%	0%	6	18	General podiatric and specialized clinic rotations Geriatric clinics Orthotic laboratory Operating theatre (observer status) Off-campus clinics are: Alexandra Health Centre & University clinic Bara Chris Hani Hospital Johannesburg Hospital Helen Joseph Hospital.
Clinical Practice 3 (Theory)	CLPTHY3	100%	0%	6	18	Critical thinking, clinical reasoning and clinical decision-making. Information analysis and synthesis. Treatment planning process. Components of treatment planning. Development of a flow chart and treatment algorithm. Podiatric biomechanics Physical examination of the patient Podiatric radiology

						Local analgesia Skin and nail surgery.
Clinical Practice 4 (Practical)	CLPHSY4	100%	0%	8	22	Paediatric clinic Geriatric clinic Sports clinic Orthotic laboratory Operating theatre Off-campus clinics are: Alexandra Health Centre and University clinic Riverlea Community Health Centre Bara Chris Hani Hospital Tambo Memorial Hospital Johannesburg Hospital Helen Joseph Hospital Rahema Moosa Hospital.
Clinical Practice 4 (Theory)	CLPTHY4	100%	0%	8	20	Principles underpinning treatment. What to do when treatment plans fail? Introduction to clinical audit. Clinical protocols. Practitioner-patient relationship. Treatment planning and review. Review of patient examination Biomechanical review Applied pharmacology Specialized techniques Case studies.
Health Management Systems	HMSPHB4	100%	0%	8	10	The need & role of podiatry within the public health sector. Healthcare structures & healthcare delivery in RSA. Health Promotion & Prevention. Health legislations. Epidemiology The burden of chronic diseases Socio-economical health problems Healthcare as a human right Current provision and organization of Podiatry services in Primary Health Care (PHC). Foot health education (Communication).
Human Sciences	HUMSHY1	50%	50%	5	20	**Humanities module**
Introduction to Pharmacology	INTPHY3	100%	0%	6	12	Advanced pharmacodynamics and clinical pharmacokinetics Pharmaceutics: drug formulations and routes of administration Legal aspects of drug use; drug schedules Dosage regimens; compliance Commonly used drugs: analgesics, cardiovascular agents, sedatives, hormones Drug information and advertising Side effects, adverse drug

						reactions and drug interactions; toxicology Social pharmacology and drug dependence Rational prescribing of drugs Therapeutic drug monitoring Drug Interactions Antihypertensive Angina Heart Failure Anxiolytics and Hypnotics Antiepileptic's Parkinson's Medication Psychosis Gastrointestinal tract Asthma Allergy.
Medical Sciences	MEDSHY1	100%	0%	6	12	Scope and history of microbiology Safety in the microbiology laboratory Microscopy Morphology of a typical bacterial cell Staining techniques Nutrition and environment of micro-organisms Collection, transport and examination of mycology Antibiosis Characteristics of organisms and diseases caused Bacterial pathogenicity.
Pathology and Medicine	PATMHY3	100%	0%	6	24	Etiology of disease. • Cell necrosis and degeneration. • Inflammation and infection. • Repair and healing. • The immune response. • Disorders of growth. • Circulatory disorders. Anatomical Pathology Neurology Orthopaedics Obstetrics and Gynaecology Medicine Endocrinology Cardiovascular / Circulatory disorders General Surgery Paediatrics.
Physiology 2	PHYGHY2	100%	0%	6	24	Purpose of this module is that the learner has an understanding of the physiological mechanisms of the nervous system, reproductive system, cardiovascular/circulatory system, lymphatic system,

						respiratory system. This will enable the student a better understanding as to why certain pathologies occur in the lower limb. The student will also have the ability to see the body as whole and not just focus on the limbs.
Pod Med: 4 Podogeriatrics	PDMGHY4	100%	0%	8	10	Geriatric pharmacology Gait disorders and mobility in the elderly Pruritis in geriatrics Lower limb oedema Pedal and lower limb manifestations of the systemic diseases in geriatrics Ulcerations in geriatrics Onychology Podiatric relevance of geriatrics with special needs Footwear Community Health Laboratory tests Podiatric primary health care Euthanasia and Dying.
Pod Med: Podopaediatrics	PDMPHY4	100%	0%	8	10	Examination and history taking in paediatrics Growth and development Developmental deformities Orthopaedics and gait analysis in a child Paediatric Dermatology The child and sports Footwear Foot health Ethical considerations in paediatrics.
Pod Med: Sports Medicine	PDMSHY4	100%	0%	8	10	General Sport Patient Assessment Gait and biomechanical assessment techniques in sports patients Foot & lower limb Sport Pathologies Systemic Pathologies and their complication on the foot and lower limb. Sport injuries in specific groups Sport Equipment Sports Traumatology Sports Injury Management.
Podiatric Anatomy 2 (Practical)	PDAPHA2	100%	0%	5	8	This module will enable students to gain the relevant lower limb anatomical background applicable to Podiatry in the following practical (dissection) topics: Surface anatomy and landmarks Skeletal anatomy Muscular anatomy Cardiovascular anatomy

						Neural anatomy.
Podiatric Anatomy 2 (Theory)	PDATHA2	100%	0%	5	8	This module will enable students to gain the relevant lower limb anatomy background applicable to Podiatry in the following theoretical topics: Surface anatomy and landmarks Skeletal anatomy Muscular anatomy Cardiovascular anatomy Neural anatomy Functional Anatomy Radiographic Anatomy.
Podiatric Medicine 1 (Theory)	PDMTHY1	100%	0%	6	24	Introduction to Podiatry profession and Terminology Introduction to Podiatric Biomechanics Introduction to basic Dermatology Common Skin & Subcutaneous Tissue Pathologies Introduction to nail pathologies Footwear Basic Pharmacotherapeutics (Podiatric) Surgical/Wound Dressings Principles of patient interaction Introduction to ethics & ethical behaviour.
Podiatric Medicine 2	PDMTHY2	100%	0%	6	36	Skin conditions of the foot & lower limb Forefoot conditions Hind foot Osteochondritis Ankle pathologies Knee pathologies Hip Traumatic inflammatory conditions of the lower limb Introduction to Pharmacological management.
Podiatric Medicine 3	PDMNHY3	100%	0%	8	32	The Effects of systemic diseases on Foot and lower Limb. Peripheral Vascular Disease. Rheumatology & Musculoskeletal Disorders. Endocrine & Metabolic Disorders. Neurological Disorders Dermatology & Soft Tissue Disease HIV/AIDS At Risk Foot Wounds Wound Management Social Determinants of Health-discussion/debates Introduction to Pharmacotherapy Ethical dilemmas in podiatry

						practise Podiatric Diagnosis & Treatment Planning.
Podiatric Orthotics 2 (Practice)	PDOPHY2	100%	0%	6	8	Fabrication of foot device such as: Template measurement Neutral impression cast Silicone Devices Simple Innersoles Orthotics Cad-Cam design.
Podiatric Orthotics 2 (Theory)	PDOTHY2	100%	0%	5	8	Principles of Orthotic therapy Current technology in orthotic design and fabrication (Cad-Cam) Patient suitability for orthotic Biomechanics & Gait Cycle Footwear design Footwear evaluation Prescription of orthotics and insoles Prescription of over the counter devices Principles of material and device choice Simple Innersoles Silicone Devices Orthotics.
Podiatric Surgery	PODSHY3	100%	0%	8	12	Surgery on Specific Structures Orthopaedics Healing Process Amputation Fractures Implants Bone & Joint Infections Bone Tumours Physical Examination & Assessment Wounds and Sutures Excision and Incision Biopsy Casting OF the Lower Limb Soft Tissue Burns Ulcers Nail Surgery Forefoot, midfoot and rearfoot surgical procedures.
Private Practice Management	PPMPHA4	100%	0%	8	8	Private Practice Management Premises Starting a private Practice Home Visits or Domiciliary treatment The Appointment Book Patient Records Professional communication The Podiatrist and his health Patient behaviour and management Chair side manners for the Podiatrist/First impressions

						Projecting a professional image (ICD10 Coding) Fees for Services rendered CPD Health Professions Council of South Africa (HPCSA) Podiatry and Biokinetics The functions of the Professional Board Ethical dimensions of a Podiatrist The functions of the South African Podiatry Association (SAPA) The Podiatrist and the law Marketing in Podiatric practice Financing and the Podiatrist Accounting and taxation Insurance Podiatric Emergencies Clinical Emergencies Requirements when starting a practice Statutory Requirements.
Research Methodology	REMPHY3	100%	0%	8	12	Definitions of research The academic contribution of research The scientific method and philosophies of science Types of research and research designs The research life-cycle Research skills Electronic searching and access to information Scientific writing Statistical analysis Ethical considerations in research Writing the research proposal and report.
Research Project and Dissertation	REPPHY4	100%	0%	8	30	Undertake a research project and produce a research report on a chosen topic from within the field of Podiatric medicine.

HS12.10 DEPARTMENT OF SPORT AND MOVEMENT STUDIES

HIGHER CERTIFICATE IN SPORT ADMINISTRATION (F9SA1Q)

Name	Code	SM Weight	EM Weight	Level	Credits	Content
Communication and Computer Literacy	CCLSAA1	100%	0%	5	5	Complete the University's computer proficiency test and evaluate personal computer communication skills. Use social media as a tool for communication.
First Aid Level 1	FALSAB1	100%	0%	5	5	Execute the required First Aid competencies to be accredited on Level one (National Qualification).
Financial Administration in Sport	FASSAB1	100%	0%	5	10	Administer the finance of a sport club.
Facility, Competition and Event Administration	FCESAY1	100%	0%	5	10	Administer facility use and maintenance. Plan and execute the administration of a sport event. Administer sport equipment of a sport event.
Human Resource Administration in a Sport Club	HRASAA1	100%	0%	5	10	Develop and implement the administration of the human resources of a sport club. Develop administrative component of the human resources of an event and competition.
Introduction to Sport Marketing and Administration	IMASAA1	100%	0%	5	10	Implement the administrative component of a marketing plan of a sport club, event and competition.
Introduction to Sport Law	ISLSAB1	100%	0%	5	10	Identify those legal aspects that relates to the administration of a sport club, event and competitions. Develop administrative processes that are in line with the legal requirements.
Principles and Administration of Coaching	PACSAA1	100%	0%	5	5	Describe the principles of coaching Relate the principles of coaching to the administrative requirements of coaching
People with Disability in Sport	PDSSAB1	100%	0%	5	5	Discuss the different categories of people with disability in sport Identify the administrative requirements for people with a disability in sport. Plan and implement the required administrative interventions for people with a disability.

Sport and Club Administration	SCASAY1	100%	0%	5	20	Describe positioning of a sport club within the South African sport structures. Distinguish the difference between management and administration of a sport club. Discuss the content of a sport club constitution and its related administrative activities. Administer equipment of a sport club.
Sport Leadership and Ethics	SLESAB1	100%	0%	5	10	Implement a leadership style. Implement ethics in the administrative processes and procedures of a sport club.
Self-Management and Personal Skills Development	SMDSAA1	100%	0%	5	5	Communicate effectively in writing and verbally. Manage time effectively Work with other in a group. Set personal goals and objectives. Set personal development goals and objectives. Identify learning opportunities. Implement learning opportunities. Assess progress towards personal development goals.
Work Integrated Learning (WIL)	WILSAY1	100%	0%	5	15	Administer sport equipment Utilise a computer to capture management information of a sport club. Utilize social media as a tool for communication of a sport club. Manage personal development. Administer activities of people with disability. Apply legal aspects in the administration of a sport club. Administer human resources information of a sport club. Take leadership in a sport club. Behave ethically in a sport club. Implement the administration related to the marketing of a sport club

						Administer the finance of a sport club. Administer facility use and maintenance. Plan and administer the administration of a sport event.

HIGHER CERTIFICATE IN SPORT COACHING & EXERCISE SCIENCES (F9SC1Q)

Name	Code	SM Weight	EM Weight	Level	Credits	Content
Basic Anatomy and Physiology	BAPSCY1	100%	0%	5	10	The major components of the muscular-skeletal system used to produce movement can be correctly identified. The three major energy systems can be identified and described
Basic Coaching Science	BCSSCB1	100%	0%	5	10	The principles of physical training and activity can be identified. basic fitness training protocols can be clearly explained. The process of drug testing in sport can be clearly described.
Basic Injury Prevention	BIPSCA1	100%	0%	5	10	Common musculoskeletal injuries and their prevention can be identified and explained. The role of various environmental and climatic conditions on performance that affect performance can be accurately discussed.
Communication and computer literacy	CCLSCA1	100%	0%	5	5	The student completes the UJ online Computer proficiency test. Common communication issues with stakeholders such as parents, sponsors, sport administrators and the media are clearly discussed. The major communication problems common to the coaching profession are accurately identified.
Coaching in the Four Domains	CFDSCY1	100%	0%	5	20	The four domains of coaching, namely a) children b) participation c) talent identification d) high performance within the

						LTPD (long-term participant development) model can be appropriately identified and described.
First Aid Level 1	FALSAB1	100%	0%	5	5	The Level 1 certification is completed
Facility, Competition and Event Management	FCESAY1	100%	0%	5	10	The concepts *facility, competition and event management* can be clearly explained. Basic completion and event plans can be produced.
Introduction to Sport Law	ISLSAB1	100%	0%	5	10	Key aspects of Contract Law in a sport-coaching context are correctly discussed. The risk factors within the coaching context and sport can be identified.
People with Disability in Sport	PDSSAB1	100%	0%	5	10	The distinction between physical and intellectual disability can be demonstrated The various classifications required for participation in disability sport are clearly discussed. The national and International Disability Structures and organizations in sport can be identified. variety of sports codes.
Sport Club Administration	SCASCA1	100%	0%	5	5	The key requirements for starting up a sports club can be identified, including: 1. the basics of writing up a club constitution 2. If minutes of a meeting can be taken if the key club administrative stakeholders can be identified.
Sport Leadership and Ethics	SLESCB1	100%	0%	5	10	Differentiate between different coaching leadership styles. Develop a personal vision for coaching and a code of conduct.
Self-Management and Personal Skills Development	SMDSAA1	100%	0%	5	5	Personal time and stress can be managed in line with the development of specific personal goals. A personal coaching philosophy is developed.
Work Integrated Learning (WIL)	WILSCY1	100%	0%	5	10	The different areas of the sport coaching working environment can be distinguished. A competent display of assisting in

						a sport coaching environment is shown.

DIPLOMA IN SPORT MANAGEMENT (D9S01Q)

Name	Code	SM Weight	EM Weight	Level	Credits	Content
Business Management 1A	BMA01A1	50%	50%	5	12	**CBE module** The purpose of this module is to introduce students to needs and wants of people, the production factors, the business environment, entrepreneurship, management theories and tasks to enhance their understanding of the business context.
Business Management 1B	BMA01B1	50%	50%	5	12	**CBE module** The purpose of this module is to introduce students to the functions of a business to enhance their business knowledge.
Business Management 2A	BMA02A2	50%	50%	6	16	**CBE module** The purpose of the module is to develop an understanding of the inter-relationship between the various management functions in an organization through the interpretation and application of theory, standards and principles.
Business Management 2B	BMA02B2	50%	50%	6	16	**CBE module** The purpose of the module is to develop an understanding of the inter-relationship between the various management functions in an organization through the interpretation and application of theory, standards and principles.
Business Management 3A	BMA03A3	50%	50%	6	16	**CBE module** The purpose of this module is to provide the student with knowledge, interpretation, analysis and an understanding of strategic management as a long-term management process focusing on the strategic management planning process considering the organizational vision and mission; all the internal and external inputs; the formulation, interpretation and application of the appropriate strategies, and the implementation and institutionalization of the selected strategies.

Business Management 3B	BMA03B3	50%	50%	6	16	**CBE module** The purpose of this module is to provide the student with knowledge, interpretation and an understanding of dynamic management issues. This module will further appropriate understanding of decolonization and Africanisation as well as in depth understanding of risk management.
End-User Computing A	EUC01A1	50%	50%	5	16	**CBE module** The purpose of this module is to introduce the students to basic IT (information technology) terms, Skills and the basic components of a computer. The students will be able to manipulate files and use word processing application to solve business problems and to use presentation software.
End-User Computing B	EUC01B1	50%	50%	5	16	**CBE module** The purpose of this module is to introduce the students to basic IT (information technology) terms, Skills and the basic components of a computer. The students will be able to manipulate files and use word processing application to solve business problems and to use presentation software.
English 1A	PME1AA1	50%	50%	6	16	**Humanities module** To acquire reading and writing skills related to different contexts; to apply reading and writing Skills appropriately in different contexts.
English 1B	PME1BB1	50%	50%	6	16	**Humanities module** -Interpersonal communication -Intercultural communication -Meetings – procedures, types, documents -Oral presentations and graphic communication
Marketing 1A	MAR01A1	50%	50%	5	16	**CBE module** The purpose of this module is to introduce the student to the basic principles of marketing, mainly in a consumer product context. On a practical level, the student will have attained the necessary experience to identify environmental trends, understand basic consumer behavior and market segmentation.
Marketing 1B	MAR01B1	50%	50%	5	16	**CBE module** The purpose of this module is to introduce the student to the basic principles of marketing, mainly in a

						consumer product context. On a practical level, the student will be familiar with the product, pricing, distribution and promotion elements of the marketing mix.
Marketing 2A	MAR02A2	50%	50%	6	16	**CBE module** The purpose of this module is to equip the student with the necessary knowledge to distinguish between the additional aspects of services and relationship marketing in service businesses. On a practical level, the student will be familiar with the people, process and physical evidence elements of the marketing mix as well as techniques to build relationships with employees and customers.
Marketing 2C	MAR02C2	50%	50%	6	16	**CBE module** The purpose of this module is to acquire knowledge, practical skills and competencies for applying the principles and concepts of marketing within a sport and recreational setting; to sport products, sport consumers and sport entities. On a practical level, these will be applied to sport consumer behavior, marketing communication and sponsorships, as well as carry out a basic research survey in a sport environment.
Public Relations 1A	PRL1AA1	50%	50%	5	16	**Humanities module** To introduce the student to the principles and practice of Public Relations. -Define key concepts in Public Relations -History and development of Public Relations -Current approaches to Public Relations
Public Relations 1B	PRL1BB1	50%	50%	5	16	**Humanities module** To provide the student with an understanding of the environmental contexts in which Public Relations is practiced. -A systems approach to Public Relations practice -Socio-cultural, political, economical, technological and global contexts of practice
Sport and Physical Recreation Studies 3A	SPR3AA3	100%	0%	7	16	Didactical aspects of sport and Growth and Maturation is presented in this module.

Sport and Physical Recreation Studies 3B	SPR3BB3	100%	0%	7	16	An aspect of Sport Psychology and Perceptual motor development is presented in this module.
Sport Management 1A	STM1AA1	100%	0%	5	16	The module focusses on General management in sport. The applied principle of Business Management is presented in this module. This module deals with aspects of sport as a business as well as how sport is administrated.
Sport Management 1B	STM1BB1	100%	0%	5	16	This module deals with Leisure and Recreation management. Aspects of recreation programming and creation of leisure activities are addressed.
Sport Management 1C	STM11Y1	100%	0%	5	16	This is a practical module where first year students experience the rules, coaching activities and presenting the activities of various sporting codes.
Sport Management 2A	STM2AA2	100%	0%	6	16	**CBE module** This module deals with the human resource management in sport.
Sport Management 2B	STM2BB2	100%	0%	6	16	This Module deals with Financial management in sport and addresses issues such as budgets, financial planning in sport, and basic accounting with reference to the sport industry.
Sport Management 2C	STM22Y2	100%	0%	6	16	Second year students present various aspects of different sporting codes.
Sport Management 3A	STM3AA3	100%	0%	7	16	Event management is the focus of this module.
Sport Management 3B	STM3BB3	100%	0%	7	16	Facility management is the focus of this module.
Sport Management 3C	STM33Y3	100%	0%	7	16	Third Year students manage the activities of the various sporting codes presented.

BACHELOR OF COMMERCE IN SPORT MANAGEMENT (B9S14Q)

Name	Code	SM Weight	EM Weight	Level	Credits	Content
Accounting A	ACC0AA1	50%	50%	5	12	**CBE module** The purpose of this module is to cover the basic concepts of accounting, the recording of various elementary transactions and the accounting cycle. This forms the basis for further modules in the analysis, interpretation and application of accounting.
Accounting B	ACC0BB1	50%	50%	5	12	**CBE module** The purpose of this module is to further develop the basic principles of accounting taught in Accounting A with reference to specific scenarios and entities.
Analytical Techniques A	ATE01A1	50%	50%	5	15	**Science module** A student credited with this module will have developed a basic ability to define terms commonly used in Statistics, to show how a set of data can be organised in a meaningful way and presented to reveal or enhance its fundamental properties. The student will also be able to measure and model the linear relationship between two variables. A student credited with this module will have developed a basic ability to analyse a time series, understand and implement the basic concepts of probability, probability distributions, sampling distributions and elementary matrix operations.
Analytical Techniques B	ATE01B1	50%	50%	5	15	**Science module** To develop a basic understanding of inferential statistics and the ability to apply the methodology to a variety of business oriented problems. This module is also intended to equip students with mathematical skills involving the differential and integral calculus and the optimisation of functions subject to constraints and to apply these to understand modern theories about the functioning of the economy.
Anatomy & Physiology 1A	ANP01A1	100%	0%	5	8	Muscle and tissue Fundamentals of the nervous system and tissue

						Central nervous system Peripheral nervous system Autonomic nervous system (ANS) Cardiovascular System Respiratory System.
Anatomy & Physiology 1A	ANP01B1	100%	0%	5	8	Blood Hemostasis Urinary systemThe Endocrine System and hormomes Digestive system Fluid electrolyte and acid base balance.
Business Management 1A	BMA11A1	50%	50%	5	12	**CBE module** The purpose of this module is to introduce students to the main themes and concepts of Business Management, the business environment and its interactive sub-environments. Furthermore, students will be provided with a global overview of general management as a management function and prepare them for challenges in the South African business environment. This module is designed to provide the student with intellectual competencies, practical skills and an understanding of management based on historical and modern approaches as well as the management tasks, namely planning, organizing, leading and control.
Business Management 1B	BMA21B1	50%	50%	5	12	**CBE module** The purpose of this module is to develop the students' fundamental theoretical and academic knowledge to provide them with an overview of management functions and prepare them for challenges in the South African business environment. This module will also develop the student with fundamental academic knowledge, intellectual competencies, and practical skills on how to apply the functional areas of a business.
Business Management 2A	BMG02A2	50%	50%	6	16	**CBE module** The purpose of the module is to develop an understanding of the inter-relationship between the various management functions in an organization through the interpretation and application of theory, standards and principles.
Business Management	BMG02B2	50%	50%	6	16	**CBE module** The purpose of the module is to

2B						develop an understanding of the inter-relationship between the various management functions in an organization through the interpretation and application of theory, standards and principles.
Business Management 3A	BMA13A3	50%	50%	7	16	**CBE module** The purpose of this module is to provide the student with knowledge, interpretation, analysis and an understanding of strategic management as a long-term management process focusing on the strategic management planning process considering the organizational vision and mission; all the internal and external inputs; the formulation, interpretation and application of the appropriate strategies, and the implementation and institutionalization of the selected strategies.
Business Management 3B	BMG03B3	50%	50%	7	16	**CBE module** The purpose of this module is to provide the student with knowledge, interpretation and an understanding of dynamic management issues. This module will further appropriate understanding of decolonization and Africanisation as well as in depth understanding of risk management.
Didactics and Exercise Science 2A	DES02A2	100%	0%	6	16	Education and training structures for sport in South Africa Curriculum design Entry situation Selection and ordering of learning content Learning experiences Learning opportunities Assessment Phases of presentations Principles of Skill Learning Preparing for the Learning Experience Supplementing the Learning Experience Structuring the Learning Experience Providing Feedback During the Learning Experience Integration and Applications Facilitating Learning and Performance Applying the Principles of Skill Learning Reflect on the metabolic pathways

						and the role of ATP. Metabolic regulation and fuel substrates during exercise. Anaerobic and aerobic metabolism during exercise. Relevant training principles for metabolic enhancement. Muscular contraction and movement during exercise.
Economics 1A	ECO01A1	50%	50%	5	12	**CBE module** The purpose of this module is to introduce financial services operations students to some understanding of the functioning of the economy and to appreciate issues involved in current controversies over economic policy, including economic theory and the concepts of supply and demand.
Economics 1B	ECO01B1	50%	50%	5	12	**CBE module** The purpose of this module is to introduce financial services operations students to some understanding of the functioning of the economy and to appreciate issues involved in current controversies over economic policy relating to microeconomic theory and the determination of national income.
Exercise Science 2B	EXS02B2	100%	0%	6	16	Reflect on response patterns of respiratory variables during various exercise modes Identify variations in resting volumes, exercise responses and training adaptations among children, adults and the elderly concerning the respiratory variables. Reflect on response patterns of the mayor cardiovascular variables during various exercise modes Identify variations in resting volumes, exercise responses and training adaptations among children, adults and the elderly concerning the cardiovascular variables. After completion of this module, the student will be able to periodize a training programme, design different training programmes by applying the training principles for muscle strength and endurance, cardiovascular endurance speed, power and agility.

Facility, Event and Human Resource Management in Sport 3D	FEH03D3	100%	0%	7	16	Introduction to Facility Management; Systems & Operations Management Equipment & Supplies Management Safety & Security Management Crowd Management Event Management HR in Sport & Recreation: Volunteerism; Professionalism; Clients as HR; Staffing & Career Considerations; South African Labour Law; Leadership; Time Management; Stress Management.
Industrial Psychology 1A	IPS11A1	50%	50%	5	16	**CBE module** The purpose of this module is to provide students with an introduction to the field of Industrial Psychology. It provides a basic knowledge and understanding of industrial psychology concepts as related to the biological basis of behavior, research methodology, human development, learning, perception, cognition, motivation, attitude and values, personality, attraction and affiliation, group behavior, and social processes for development. Students need to identify, describe and distinguish concepts and theories applicable to the scientific field of Industrial Psychology, acquiring a basic understanding of the nature of problems experienced in organizations.
Industrial Psychology 1B	IPS21B1	50%	50%	5	16	**CBE module** The purpose of this module is firstly to provide students with an introduction to the field of Industrial Psychology. It provides a basic knowledge and understanding of the multi-dimensional nature of ergonomics, as well as the different applicable fields that contribute to the knowledge base of ergonomics. Students need to identify, describe and apply theoretical knowledge and concepts related to ergonomics in order to establish an effective, safe and healthy human-machine interface.
Industrial Psychology 2A	IPS12A2	50%	50%	6	16	**CBE module** The purpose of this module is to

						provide students with an introduction to study the field of Organization Behavior. Students are equipped with the intellectual competencies for acquiring and understanding knowledge about behavior on an individual, group and organizational level. Students need to identify, describe, distinguish, apply and analyses concepts and theories related to the scientific field of organizational psychology, allowing a thorough understanding of the nature of problems experienced within organizations and options for addressing these problems.
Industrial Psychology 2B	IPS22B2	50%	50%	6	16	**CBE module** The purpose of this module is to introduce students to research methods and psychological assessment in industrial psychology.
Industrial Psychology 3A	IPS13A3	50%	50%	7	16	**CBE module** The purpose of this module is to provide students with the ability to understand and describe the field of Personnel Psychology. Core aspects of the course include research methods in Personnel Psychology, the changing nature of work, standards of effective personnel decision-making, psychological assessments in recruitment and selection, and aspects of fairness in the South African labor and legislative context.
Industrial Psychology 3B	IPS23B3	50%	50%	7	16	**CBE module** The purpose of this module is to provide students with the intellectual competencies required to identify, examine and apply ethical principles, which will enable them to comprehend their professional ethical obligation as it applies to the field of Industrial Psychology. This module will also provide students with applied competencies in Industrial Psychology in order to examine apply and analyses the relevance of the field within organizations. This module allows for a comprehensive understanding of ethical principles within organizations as well as the

						practical application of Industrial Psychology.
Kinesiology 1A	KIN01A1	100%	0%	5	8	Terminology and orientation The skeletal system The spine and rib cage The upper extremities and scapula The lower extremities and pelvis Joints and ligaments The muscular system Muscles of the upper extremities Muscles of the lower extremities Muscles of the spinal column Nerve supply of the musculo-skeletal system Introduction, terminology and definitions Principles of Physics Scalars and vectors Static and dynamic biomechanics Newtonian laws and applications Lever systems Linear and angular kinematics and kinetics Fluid and gas mechanics Electromagnetic spectrum Joint mechanics Posture and locomotion Dynamic muscle function Neural integration Anatomical and biomechanical analyses.
Kinesiology 1B	KIN01B1	100%	0%	5	8	Introduction to Health Promotion Diseases of a destructive lifestyle Screening for disease Advantages of regular physical activity Lifestyle and behaviour modification Health promotion strategies in different populations: Introduction and definitions Traumatic injuries Overuse injuries Prevalence, predisposing factors and causes of musculoskeletal injuries and conditions Congenital or acquired musculoskeletal conditions Basic treatment of musculoskeletal injuries Prevention of injuries. The student will be able to demonstrate assessment, record and interpret data of body composition, cardiovascular endurance, muscle strength and endurance, power, speed, reaction time, agility, flexibility and balance.

Leisure and Sport Tourism Studies 2D	LST02D2	100%	0%	6	16	Introduction to leisure: Historical perspective and leisure approaches Introduction to recreation and recreational theories Implication on leisure services: Leisure environments Benefits from leisure, program theories Factors that influence leisure and recreation services Structure and growth of recreation in South Africa Leisure service providers: Role player in SA Sport and Recreation Public, volunteer and commercial sectors Leadership in leisure programming Recreation program planning for special populations (ill, seniors and disabled persons) Learners should develop an understanding and insight into the phenomenon of tourism from a sport and leisure management perspective. The focus will be on the management of the behaviour of the tourist and satisfying his/her needs to various sport and leisure events and facilities. Learners should further be able to plan, organize and lead sport and leisure tours.
Practical Aspects 2E	PRA02E2	100%	0%	6	8	Practical Experiential learning of presentation of a fun day for Senior citizens; practical implementation of theoretical knowledge of management at recreation camp; Practical experience of event management and presentation of volunteer projects.
Sport Administration 1C	SPA01C1	100%	0%	5	8	Sport and physical activity in the ancient civilization The Greeks, Ancient Olympic and the Romans Modern Olympic Games Development of modern sport : Renaissance, reformation and modern era Development of sport in South Africa and the political influences on international participation. Historical and theoretical overview of violence in sport Sport and the economy Sport and gender Administering of a club/sport

						enterprise; running meetings; organising different tournaments; managing equipment and facilities; managing sponsorships and financial aspects.
Sport Management 2C	SPM02C2	100%	0%	6	16	Segments and sectors in the sport industry The macro / micro and market of the sport industry Management of sport Planning and the management of sport Organising and the management of sport Direction/leading and the management of sport Control and the management of sport And After completion of this quarter module the learner will be able to: distinguish between management and sport management, describe and apply the planning process, explain and apply the principles of organizing within the sport industry, explain and apply the competence of directing in a practical situation, defend and implement the principles of control in the management of sport.
Sport Marketing and Finance 3C	SFM03C3	100%	0%	7	8	Introduction to sport marketing. The uniqueness of sport marketing Consumer Behaviour Principles of sport marketing Market Segmentation, Targeting and Positioning Sport Product Decision. Sport Promotions. Distribution decisions in sport entities. Pricing strategies used in sport enterprises. The process of sport marketing management And Introduction basic financial concepts. Financial Compliance Cash flow management Sources of revenue Budgets and budgeting Financial reporting Implications of economics for sport organisations Economic, customer and demand theories relevant to sport

						management The non-profit and public sectors.
Sport Practice 1D	SPP01D1	100%	0%	5	8	Students should develop intellectual competencies and practical skills in the analysis, interpretation and application of the rules, coaching and assessment in swimming, rugby, cricket, football, hockey, tennis, and netball.
Sport Psychology and Perceptual Motor Learning 3A	SPP03A3	100%	0%	7	16	Motor Skill: What Is It? Individual Differences and Motor Abilities Principles of Human Skilled Performance Processing Information and Making Decisions Sensory Contributions to Skilled Performance Movement Production and Motor Programs Principles of Motor Control and Movement Accuracy The content entails an introduction to sport psychology, the mind and sport performance, stress and anxiety in sport, arousal and sport performance, theoretical considerations in the management of stress and anxiety, stress management techniques, visualization, imagery, mental imagery training, concentration, concentration training, goal setting and self-confidence, the use of cognition in sport, and the development of a mental training program.
Sport Sociology 3B	SPS03B3	100%	0%	7	16	Orientation, introduction and social theories Application of theories Socialization and participation in structures sport programmes Deviance in sport Aggression and violence in sport. Orientation, introduction and theoretical perspectives Sport and the economy Sport and the media Sport and politics Sport and development The ‘social’ body The future.
Work Integrated Learning 3E	WIL03E3	100%	0%	7	8	Orientation, introduction and social theories Application of theories Socialization and participation in structures sport programmes Deviance in sport

						Aggression and violence in sport. Orientation, introduction and theoretical perspectives Sport and the economy Sport and the media Sport and politics Sport and development The 'social' body The future.

BACHELOR OF HEALTH SCIENCES IN SPORT AND EXERCISE SCIENCES (B9SE1Q)

Name	Code	SM Weight	EM Weight	Level	Credits	Content
Anatomy and Physiology 1	ANPSHY1	100%	0%	5	15	On successful completion of this module, students will be able to demonstrate competencies and knowledge acquired regarding the anatomy and physiology of the muscular-skeletal-, nervous-, endocrine- ,cardiorespiratory systems, of blood, haemostasis, urinary-, lymphatic-, immune- and digestive systems , as well as fluid, electrolyte and acid base balance.
Applied Physiology 2A	APHSH2A	100%	0%	6	15	On successful completion of this module, students will be able to explain, discuss and reflect on the responses and adaptations of bioenergetics, musculoskeletal and neurophysiological systems to exercise.
Applied Physiology 2B	APHSH2B	100%	0%	6	15	On successful completion of this module, students will be able to explain, discuss and reflect on the responses and adaptations of cardiorespiratory and endocrinology systems to exercise.
Applied Sport and Exercise Psychology 2A	ASPSH2A	100%	0%	6	15	On completion of this module, students will be able to demonstrate an understanding of the role of sport and exercise psychology in society, explain the basic principles, theories and methodologies of sport and exercise psychology, describe how sport psychology can enhance performance and identify techniques to modify exercise

						behaviour in individual athletes and enhance performance.
Didactics and Coaching Science 1B	DICSH1B	100%	0%	5	15	On successful completion of this module, students will have an understanding of the education and training structures for sport in South Africa. They would be able to demonstrate, reflect and explain the relevant phases of presentation, skills learning, provision of feedback as well as the facilitation of learning and performance.
Health and Wellness Promotion 1B	HWPSH1B	100%	0%	5	15	On successful completion of this module, students will be able to demonstrate awareness of the historical origins of health promotion, demonstrate an understanding of the principles of health promotion as well as demonstrate an understanding of and capacity to apply the conceptual framework of contemporary health promotion practice.
Health and Wellness Promotion 2B	HWPSH2B	100%	0%	6	15	On successful completion of this module, students will be able to demonstrate an understanding of and capacity to undertake health promotion evaluation practices, demonstrate an awareness of challenges to health promotion in a changing world and demonstrate the capacity to critically analyse health promotion practice.
Health and Wellness Promotion 3A	HWPSH3A	100%	0%	7	15	On successful completion of this module, students will be able to critically discuss the social impact of health promotion, understand the concept of exercise is medicine and be aware of the global trends in health promotion.
Kinesiology 1A	KINSH1A	100%	0%	5	15	On successful completion of this module, students will be able to identify anatomical regions, name and explain muscles responsible for different movements at different joints, identify and discuss the functions of levers in the body and demonstrate their competency in

						anatomical and biomechanical analysis.
Motor Learning 3A	MTLSH3A	100%	0%	7	15	On successful completion of this module, students will be able to appraise constraints- led approaches to motor learning, create solutions to common motor learning situations by applying principles related to optimal learning of motor skills, assess motor skills and integrate empirical findings to develop evidence-based approaches to instruction and analyse results from applied motor learning experiments and evaluate findings.
Notational Analysis and Exercise Science Programming 3B	NAPSH3B	100%	0%	7	15	On successful completion of this module students will be informed about the various methods used in the scientific analysis and interpretation of match data.
Nutrition 1A	NUT012A	100%	0%	6	15	A basic background of nutrition for health and exercise. The role of nutrition in: Pregnancy Growth and development Adults Elderly Osteoporosis Immunity and autoimmune disorders (e.g. HIV) Obesity Diabetes mellitus Hypertension Coronary artery disease Cancer Nutritional assessments.
Principles of Coaching 2A	PRCSH2A	100%	0%	6	15	On successful completion of this module, students will be able to design and conduct basic fitness training protocols and have an awareness of the World Anti-doping agency and testing protocols for athletes.
Psychology 1A: Fundamentals	PSY1AA1	50%	50%	5	16	**Humanities module** The module is aimed at providing learners with a broad theoretical foundation for further studies in psychology. To this end learners encounter topics that encompass three inter-related explanatory approaches, namely biological, e.g. the role of the brain in human behavior; psychological, e.g.

						cognition, motivation, and emotion; and environmental explanations, e.g. socio-cultural influences.
Psychology 1B: Fields of Psychology	PSY1BB1	50%	50%	5	16	**Humanities module** This module introduces learners to major fields in psychology. The module is aimed at providing learners with an introduction to three defining fields in contemporary psychology, namely developmental psychology, personality psychology and social psychology. Familiarity with the major concepts and issues related to each of these fields should enable learners to engage with these fields on an advanced level in further studies.
Psychology 2A: Developmental Psychology	PSY2AA2	50%	50%	6	16	**Humanities module** Developmental Psychology is an important module in Psychology. It introduces the basic principles of human development, which helps the psychology student to conceptualize and understand the ever-changing human being from conception to death. This conceptualization and understanding is useful in everyday life (enhances understanding of e.g. family members, friends and work colleagues of different ages) and imperative for the psychologist-to-be.
Psychology 2B: Positive Psychology	PSY2DB2	50%	50%	6	16	**Humanities module** Positive psychology involves the scientific study of these factors that allow individuals, groups and communities to thrive. Specific topics to be explored include positive emotions, happiness, signature strengths, flow and creativity, psychological well-being, optimism, hope, wisdom, forgiveness, altruism, spirituality, meaning and purpose in life.
Psychology 3A: Research Psychology	PSY3AA3	50%	50%	7	16	**Humanities module** This module builds on the knowledge that has already been acquired in Research Psychology 2A and introduces learners to more advanced research design in the behavioral sciences. In this module, learners are expected to develop understanding of the

						practical applications of specific research design and to familiarize them with the description and manipulation of data using data analysis software.
Psychology 3B: Psychopathology	PSY3DB3	50%	50%	7	16	**Humanities module** Psychology 3D (Psychopathology) exposes students to current questions and research within the discipline of Psychopathology. Psychopathology is the scientific study of psychological disorders or psychological dysfunction within an individual that is associated with distress or impairment in functioning and a response to this, which deviates from the person's culture.
Sport and Exercise Practice 1B	SEPSH1B	100%	0%	5	8	On successful completion of this module, students will be able to demonstrate and explain competencies in appropriate rules, basic coaching and assessments of relevant sports as well as basic knowledge of training principles and exercise.
Sport and Exercise Science 3A	SESSH3A	100%	0%	7	15	On successful completion of this module, students will be able to analyse, discuss, reflect and the role of each of these parameters in a variety of sports.
Sport and Exercise Science 3B	SESSH3B	100%	0%	7	15	On successful completion of this module, students will be cognisant of the broad spectrum of specific factors which can affect sport performance and be able to advise athletes and coaches on training and other factors important to assist in peaking for performance.
Sport and Exercise Science Practice 3B	SEPSH3B	100%	0%	7	15	On successful completion of this module, students will be able to students will be able to develop appropriate training programs for aerobic, anaerobic, strength, power, speed, agility and flexibility.
Talent Identification and Long-Term Athlete Development 3A	TIDSH3A	100%	0%	7	15	On successful completion of this module, students will be able to demonstrate an understanding of a natural gift and talent in a range of contexts, distinguish between what is talent identification from a multi-disciplinary perspective,

						understand the possible ethical issues, concerns and related challenges and demonstrate an understanding of the typical stages of long term athlete development as well as current best practice.

BACHELOR OF BIOKINETICS (B9S05Q)

Name	Code	SM Weight	EM Weight	Level	Credits	Content
Anatomy and Physiology 1	AAP01Y1	100%	0%	5	30	This module will enable students to gain the relevant anatomical and physiological background applicable to the field of Sport and Movement Studies in the following topics: Basic chemistry and biochemistry Levels of organisation Integumentary system Support and movement Nervous system and senses Endocrine and reproductive systems Circulatory System Lymphatic system and immunity Respiratory system Digestive system and metabolism Urinary system.
Anatomy and Physiology 2	AAP01Y2	100%	0%	6	30	This module will enable students to gain the relevant anatomical and physiological background applicable to the field of Sport and Movement Studies in the following topics: Support and Movement Lymphatic system and immunity Nervous system Digestive system and metabolism Female Reproductive system Male Reproductive system.

Biokinetics 1	BIK01Y1	100%	0%	5	30	Healthcare in SA. History, ethics and legal aspects involved in Biokinetics. Introductory musculo-skeletal anatomy and biomechanics. Recognition, treatment and prevention of sports injuries. Wellness, health promotion and screening for non-communicable diseases (NCDs). Exercise testing and prescription. Exercise testing and prescription in special populations: children, pregnancy and the elderly. Completion of 100 hours of work-integrated learning (WIL) at a UJ clinical site. First aid and basic life support * For students' own account – course offered by external provider.
Biokinetics 2	BIK01Y2	100%	0%	6	30	Assessment, rehabilitation and prevention in terms of chronic conditions, neuro-muscular conditions (lower limb) and wellness. Clinical skills training. Completion of 100 hours of work-integrated learning (WIL) at a UJ clinical site.
Biokinetics 3	BIK01Y3	100%	0%	7	30	Assessment, rehabilitation and prevention in terms of chronic conditions, neuro-muscular conditions (upper limb & spine) and wellness. Pathophysiology: The epidemiology of common diseases. Terminology used within pathophysiology. Pathogens and disease. The immune system. Wound healing and pain. Acute and chronic inflammation.

						The risk factors, causes, pathophysiology, symptoms, management and treatment for: neuro-musculoskeletal, neurological, cardiovascular, pulmonary, metabolic, and/or immune conditions/diseases. The possible role of exercise in treating or managing these conditions. Common medications used to treat these diseases or conditions.
Biokinetics 4	BIK01Y4	100%	0%	8	30	Advanced assessment, rehabilitation and prevention in terms of chronic conditions, neuro-muscular conditions and wellness.
Biokinetics Practice 1	BIO01Y3	100%	0%	7	65	Completion of 350 hours of clinical internship at UJ and approved clinical sites. Clinical skills training in terms of chronic disease conditions, neuromuscular conditions and wellness.
Biokinetics Practice 2	BIO01Y4	100%	0%	8	65	Completion of 450 hours of clinical internship at UJ and approved clinical sites Advanced clinical skills training in terms of chronic disease conditions, neuromuscular conditions and wellness.
Biokinetics Research: Mini Dissertation	BRD01Y4	100%	0%	8	30	A research project within the field of biokinetics.
Biomechanics 1	BIM01B1	100%	0%	5	15	Musculoskeletal anatomy and kinesiology: normal and abnormal posture, gait patterns and exercise execution. Scalars and vectors Static and dynamic biomechanics Newtonian laws Lever systems Linear and angular kinematics and kinetics.

Clinical Exercise Science	CEX01B3	100%	0%	7	15	Exercise as a therapeutic modality Using exercise in: • chronic disease conditions like cardiovascular conditions • orthopaedic injuries • special populations Case studies in exercise therapy Ergonomics.
Exercise Physiology	EXP01Y2	100%	0%	6	30	Physiological and physical responses and adaptations to acute and chronic exercise and training Bio-ergonomics Gender and age differences (pregnancy, children & elderly) Pregnancy Environmental influences Physiological testing and interpretation (e.g. VO2max, blood tests, etc.) Pathophysiology.
Exercise Science	EXS01A3	100%	0%	7	15	Exercise Readiness Body composition (anthropometry) and nutritional aspects of exercise Flexibility Proprioception and balance Strength Endurance Power Speed Agility Reaction time Exercise testing, interpretation and exercise prescription.
Nutrition 1	NUT01A1	100%	0%	5	15	A basic background of nutrition for health and exercise. The role of nutrition in: Pregnancy Growth and development

						Adults Elderly Osteoporosis Immunity and autoimmune disorders (e.g. HIV) Obesity Diabetes mellitus Hypertension Coronary artery disease Cancer Nutritional assessments.
Practice Administration 1	PAM01A1	100%	0%	5	15	International and national historical aspects of management in sport and health. Economy of sport and health. Administration of an enterprise, running meetings, organizing and managing equipment and facilities; managing financial aspects. Basic principles relating to the management and administration of a private practice.
Perceptual Motor Behaviour	PMB01Y2	100%	0%	6	30	Perceptual-motor development theories Growth, development, maturation and aging The structure and function of the central nervous system as it relates to human functioning in a biokinetic context Normal and abnormal human movement patterns Learning new skills and correcting faulty ones Disabilities and their management using perceptual motor learning approaches.
Practice Management and Entrepreneurship	PME01A1	100%	0%	8	15	Establishment, management and administration of a biokinetics practice. Entrepreneurial skills within the health care industry.

Psychology 1A	PSY1AA1	50%	50%	6	15	**Humanities module** The module is aimed at providing learners with a broad theoretical foundation for further studies in psychology. To this end learners encounter topics that encompass three inter-related explanatory approaches, namely biological, e.g. the role of the brain in human behavior; psychological, e.g. cognition, motivation, and emotion; and environmental explanations, e.g. socio-cultural influences.
Psychology 1B	PSY1BB1	50%	50%	6	15	**Humanities module** This module introduces learners to major fields in psychology. The module is aimed at providing learners with an introduction to three defining fields in contemporary psychology, namely developmental psychology, personality psychology and social psychology. Familiarity with the major concepts and issues related to each of these fields should enable learners to engage with these fields on an advanced level in further studies.
Research Methodology	RME01A3	100%	0%	7	15	The module aims at encouraging the student to conduct research by giving them the required knowledge of specific approaches and methods (qualitative and quantitative) and skills employed in applied research.

BACHELOR OF COMMERCE HONOURS IN SPORT MANAGEMENT (H9S05Q)
BACHELOR OF ARTS HONOURS IN SPORT SCIENCE (H9S03Q)

Name	Code	SM Weight	EM Weight	Level	Credits	Content
Exercise Physiology	HMS8X08	100%	0%	8	18	Introduction to Bioenergetics and exercise metabolism Musculo skeletal physiology and responses to training and exercise Neuro physiology and responses to training and exercise Cardiorespiratory exercise

						physiology The endocrine system and exercise response Physiology of overtraining Environmental influences on training and performance Body composition and nutrition.
Exercise Science	HMS8X09	100%	0%	8	18	Overview Biomechanics Exercise readiness Body composition and nutrition Evaluation and interpretation of different fitness components Periodization and design of training programmes Talent identification Sport specific High Performance testing and interventions.
Facility and Event Management	HMS8X12	100%	0%	8	15	Facility Development Facility Systems and Operations Facility Administration Risk Management Event Management Measurement and Evaluation.
Human Resource Management in Sport	HMS8X13	100%	0%	8	12	Introduction to HR management and “personnel decisions” Leadership & motivation Performance management Human resources and the legislative environment Training and development of employees Assignment presentations & assignment deadline Assignment presentations & assignment deadline.
Research Methodology	HMS8X03	100%	0%	8	30	Course orientation, context and nature of research Developing and presenting the research problem Literature study Formulating the method Ethical issues Methods: case study, observation, interview, focus group and questionnaire Types of research Writing the research proposal and report Ways of reporting research Presentation of research and feedback Statistics: Introduction to statistical concepts Measures of variability Basic concepts of statistical techniques Differences among groups

						Non-parametric techniques.
Sport Finance	HMS8X15	100%	0%	8	12	Introduction and Financial Statements Financial Analysis Financing of a business with emphasis on sports finance Time value of money Budgeting Capital Budgeting.
Sport Management Practice	HMS8X16	100%	0%	8	18	Conceptual background to experiential learning; Benefits of the internship experience; Potential internship opportunities; The structure and functioning of sport organisations in South Africa; Guest lecture on: Strategic management of sport organisations. Project presentations at SAIL premises Finalisation of Field Placement Objectives Class feedback & discussion on field experience Field trip (Compulsory) Guest Lecture Class feedback & presentations based on field experience.
Sport Marketing	HMS8X14	100%	0%	8	12	Further, students will be guided and eventually be able to develop a sports marketing plan and assess the effects thereof in a holistic context of the sport and recreation practice. Students will also eventually be able to assess the principles, disciplines and practices of Sport Marketing in a holistic context.
Sport Psychology	HMS8X10	100%	0%	8	12	The content entails an overview of the major sport psychological themes, the psychology of peak performance, talent detection and development, exercise psychology, interventions strategies for exercise adherence, drug abuse in sport, and career termination/transition in sport.
Sport Science Practice	HMS8X11	100%	0%	8	30	Establish appropriate fitness test batteries High performance sport programming and organization Talent identification Design training programmes Monitoring progress Management of testing individuals and groups Interpret test data and

						report back.
Sport Sociology	HMS8X17	100%	0%	8	12	Introduction to the study of sport in society in terms of knowledge production. Theoretical approaches- broad and specific related to different issues in sport and society The role of politics in sport: global and local, as well as the politics of sport. Sport, nationalism and the formation of national identity The role of the economy in sport as it relates to transnational companies, sponsorships and the process of commercialization. The reciprocal role of the media in sport within the global and local context and with reference to different types of media. The impact of gender, race and class (socio-economic status) in the allocation of sport-related resources and the underlying theoretical approaches. Explaining sport-related violence in the context of a society by utilizing case studies as relevant conceptual frameworks. The role of sport in communities within the sport+ and +sport model of reasoning and potential impact through the analysis of impact studies.
Sport Vision	HMS8X19	100%	0%	8	15	Visual requirements in sport Theme 1: Motor skills acquisition Characteristics of skills Receiving information Storing and processing information Motor control Limitations of performance Visual requirements General Ocular Health Visual Acuity (Static) Visual Acuity (Dynamic) Contrast Sensitivity Colour Vision Eye Movements (Ocular Motilities) Depth Perception (Stereopsis) Focus Flexibility (Accommodation) Fusion Flexibility (Binocularity) Central- Peripheral Awareness Eye- Hand- Coordination Eye-Body Coordination Visual Reaction Time Visual Adjustability

						Visual Concentration Visualization Sports vision correction Evaluation of tasks and hazards Different modes of correction eye protection in sport Protection against eye injuries Protection against environmental factors visual performance testing and enhancement Visual motor testing procedures The 'Yes Evidence' The 'No Evidence' The 'Right Evidence' Sports Specific Requirements How to develop an enhancement programme How to establish a sports vision enhancement practice Approach Equipment Market Economics
Strategic Management in Sport	HMS8X18	100%	0%	8	12	Course orientation. Strategic management model (process). Prerequisites to make the Strategic Management Process successful. Vision, Mission, Core Values and Social Responsibility. Environmental Scanning and analysis. Strategy formulation (Strategic analysis and choice). Strategic implementation – Structure, Leadership and organizational culture. Managing change as part of the Strategic orientation.